ViEWS monthly estimate tables, July 2019

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

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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

2.1.1 sb_fcast

Dep. Variable:	ged_dummy_sb	**No. Observations:**	17779
Model:	Logit	**Df Residuals:**	17748
Method:	MLE	**Df Model:**	30
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.6508
Time:	21:17:14	**Log-Likelihood:**	-2731.7
converged:	True	**LL-Null:**	-7822.5

	coef	std err	z	P>|z|	[0.025	0.975]
Intercept	-7.8187	0.677	-11.552	0.000	-9.145	-6.492
l2_ged_dummy_sb	0.5732	0.087	6.580	0.000	0.402	0.744
l3_ged_dummy_sb	0.5449	0.088	6.199	0.000	0.373	0.717
l4_ged_dummy_sb	0.3378	0.090	3.745	0.000	0.161	0.515
l5_ged_dummy_sb	0.1412	0.093	1.520	0.129	-0.041	0.323
l6_ged_dummy_sb	0.2929	0.094	3.132	0.002	0.110	0.476
l7_ged_dummy_sb	0.1658	0.095	1.739	0.082	-0.021	0.353
l8_ged_dummy_sb	0.1200	0.097	1.239	0.215	-0.070	0.310
l9_ged_dummy_sb	0.1122	0.098	1.143	0.253	-0.080	0.304
l10_ged_dummy_sb	0.1346	0.099	1.365	0.172	-0.059	0.328
l11_ged_dummy_sb	0.0923	0.099	0.931	0.352	-0.102	0.287
l12_ged_dummy_sb	0.3218	0.095	3.397	0.001	0.136	0.507
l1_ged_dummy_sb	0.9176	0.089	10.339	0.000	0.744	1.092
l1_ged_dummy_ns	0.0553	0.128	0.430	0.667	-0.197	0.307
l1_ged_dummy_os	0.5887	0.099	5.919	0.000	0.394	0.784
decay_12_cw_ged_dummy_sb_0	3.0770	0.194	15.824	0.000	2.696	3.458
decay_12_cw_ged_dummy_ns_0	0.1097	0.137	0.800	0.424	-0.159	0.378
decay_12_cw_ged_dummy_os_0	0.3703	0.157	2.353	0.019	0.062	0.679
fvp_lngdpcap_nonoilrent	0.2092	0.080	2.630	0.009	0.053	0.365
fvp_lngdpcap_oilrent	0.0235	0.018	1.304	0.192	-0.012	0.059
fvp_grgdpcap_oilrent	-0.0600	0.094	-0.639	0.523	-0.244	0.124
fvp_grgdpcap_nonoilrent	-0.4662	0.300	-1.555	0.120	-1.054	0.121
ln_fvp_timeindep	-0.0013	0.097	-0.013	0.990	-0.191	0.188
ln_fvp_timesincepreindepwar	-0.0271	0.085	-0.318	0.751	-0.194	0.140
ln_fvp_timesinceregimechange	-0.0219	0.038	-0.569	0.569	-0.097	0.053
fvp_demo	-0.2259	0.120	-1.889	0.059	-0.460	0.009
fvp_semi	-0.0636	0.104	-0.612	0.541	-0.267	0.140
fvp_prop_excluded	0.0833	0.169	0.492	0.622	-0.248	0.415
ln_fvp_population200	0.1704	0.040	4.274	0.000	0.092	0.249
ssp2_edu_sec_15_24_prop	-0.5841	0.315	-1.855	0.064	-1.201	0.033
ssp2_urban_share_iiasa	-0.0032	0.003	-0.938	0.348	-0.010	0.003

2.1.2 ns_fcast

Dep. Variable:	ged_dummy_ns	**No. Observations:**	17779
Model:	Logit	**Df Residuals:**	17748
Method:	MLE	**Df Model:**	30
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.5867
Time:	21:17:14	**Log-Likelihood:**	-2150.5
converged:	True	**LL-Null:**	-5203.1

	coef	std err	z	P>|z|	[0.025	0.975]
Intercept	-8.0393	0.690	-11.645	0.000	-9.392	-6.686
l2_ged_dummy_ns	0.4763	0.096	4.986	0.000	0.289	0.663
l3_ged_dummy_ns	0.2454	0.097	2.543	0.011	0.056	0.435
l4_ged_dummy_ns	0.2406	0.097	2.470	0.014	0.050	0.431
l5_ged_dummy_ns	0.1383	0.099	1.395	0.163	-0.056	0.333
l6_ged_dummy_ns	0.4072	0.098	4.144	0.000	0.215	0.600
l7_ged_dummy_ns	0.3401	0.099	3.433	0.001	0.146	0.534
l8_ged_dummy_ns	0.0469	0.102	0.461	0.645	-0.152	0.246
l9_ged_dummy_ns	0.1480	0.102	1.451	0.147	-0.052	0.348
l10_ged_dummy_ns	0.2985	0.102	2.938	0.003	0.099	0.498
l11_ged_dummy_ns	0.2841	0.102	2.791	0.005	0.085	0.484
l12_ged_dummy_ns	0.2627	0.100	2.622	0.009	0.066	0.459
l1_ged_dummy_sb	0.0196	0.127	0.154	0.878	-0.230	0.269
l1_ged_dummy_ns	0.6301	0.098	6.432	0.000	0.438	0.822
l1_ged_dummy_os	0.0560	0.114	0.492	0.622	-0.167	0.279
decay_12_cw_ged_dummy_sb_0	0.3074	0.177	1.734	0.083	-0.040	0.655
decay_12_cw_ged_dummy_ns_0	3.4103	0.217	15.731	0.000	2.985	3.835
decay_12_cw_ged_dummy_os_0	0.6224	0.190	3.281	0.001	0.251	0.994
fvp_lngdpcap_nonoilrent	0.1089	0.080	1.366	0.172	-0.047	0.265
fvp_lngdpcap_oilrent	0.0004	0.021	0.020	0.984	-0.040	0.041
fvp_grgdpcap_oilrent	-0.1389	0.118	-1.174	0.240	-0.371	0.093
fvp_grgdpcap_nonoilrent	-1.0244	0.303	-3.384	0.001	-1.618	-0.431
ln_fvp_timeindep	0.0813	0.102	0.793	0.428	-0.120	0.282
ln_fvp_timesincepreindepwar	-0.0495	0.095	-0.523	0.601	-0.235	0.136
ln_fvp_timesinceregimechange	-0.0198	0.043	-0.456	0.648	-0.105	0.065
fvp_demo	0.0410	0.143	0.287	0.774	-0.239	0.320
fvp_semi	-0.0441	0.128	-0.345	0.730	-0.295	0.207
fvp_prop_excluded	-0.1834	0.234	-0.783	0.434	-0.643	0.276
ln_fvp_population200	0.1489	0.043	3.438	0.001	0.064	0.234
ssp2_edu_sec_15_24_prop	-0.0272	0.318	-0.086	0.932	-0.650	0.595
ssp2_urban_share_iiasa	0.0039	0.004	1.007	0.314	-0.004	0.012

2.1.3 os_fcast

Dep. Variable:	ged_dummy_os	**No. Observations:**	17779
Model:	Logit	**Df Residuals:**	17748
Method:	MLE	**Df Model:**	30
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.5614
Time:	21:17:14	**Log-Likelihood:**	-3252.8
converged:	True	**LL-Null:**	-7416.0

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
Intercept	-3.9965	0.556	-7.192	0.000	-5.086	-2.907
l2_ged_dummy_os	0.5835	0.080	7.270	0.000	0.426	0.741
l3_ged_dummy_os	0.4112	0.082	5.044	0.000	0.251	0.571
l4_ged_dummy_os	0.3506	0.083	4.225	0.000	0.188	0.513
l5_ged_dummy_os	0.3442	0.084	4.099	0.000	0.180	0.509
l6_ged_dummy_os	0.0791	0.086	0.916	0.360	-0.090	0.248
l7_ged_dummy_os	0.0609	0.087	0.697	0.486	-0.110	0.232
l8_ged_dummy_os	0.1639	0.087	1.879	0.060	-0.007	0.335
l9_ged_dummy_os	0.1664	0.088	1.899	0.058	-0.005	0.338
l10_ged_dummy_os	0.1733	0.088	1.969	0.049	0.001	0.346
l11_ged_dummy_os	0.0412	0.088	0.466	0.641	-0.132	0.214
l12_ged_dummy_os	0.2488	0.085	2.911	0.004	0.081	0.416
l1_ged_dummy_sb	0.3437	0.097	3.533	0.000	0.153	0.534
l1_ged_dummy_ns	0.2410	0.112	2.149	0.032	0.021	0.461
l1_ged_dummy_os	1.0075	0.082	12.337	0.000	0.847	1.168
decay_12_cw_ged_dummy_sb_0	0.7642	0.138	5.543	0.000	0.494	1.034
decay_12_cw_ged_dummy_ns_0	0.2163	0.123	1.760	0.078	-0.025	0.457
decay_12_cw_ged_dummy_os_0	1.9802	0.174	11.393	0.000	1.640	2.321
fvp_lngdpcap_nonoilrent	-0.3642	0.066	-5.522	0.000	-0.493	-0.235
fvp_lngdpcap_oilrent	0.0280	0.017	1.694	0.090	-0.004	0.060
fvp_grgdpcap_oilrent	-0.2280	0.098	-2.335	0.020	-0.419	-0.037
fvp_grgdpcap_nonoilrent	-0.3611	0.221	-1.631	0.103	-0.795	0.073
ln_fvp_timeindep	-0.1760	0.083	-2.121	0.034	-0.339	-0.013
ln_fvp_timesincepreindepwar	0.2513	0.076	3.317	0.001	0.103	0.400
ln_fvp_timesinceregimechange	0.0049	0.035	0.141	0.888	-0.063	0.073
fvp_demo	-0.1720	0.114	-1.505	0.132	-0.396	0.052
fvp_semi	-0.0044	0.097	-0.045	0.964	-0.195	0.186
fvp_prop_excluded	0.1343	0.140	0.958	0.338	-0.140	0.409
ln_fvp_population200	0.1545	0.037	4.224	0.000	0.083	0.226
ssp2_edu_sec_15_24_prop	0.4469	0.257	1.740	0.082	-0.057	0.950
ssp2_urban_share_iiasa	0.0033	0.003	1.080	0.280	-0.003	0.009

2.1.4 sb_eval

Dep. Variable:	ged_dummy_sb	**No. Observations:**	15565
Model:	Logit	**Df Residuals:**	15534
Method:	MLE	**Df Model:**	30
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.6476
Time:	21:17:17	**Log-Likelihood:**	-2301.1
converged:	True	**LL-Null:**	-6529.4

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
Intercept	-8.9908	0.818	-10.996	0.000	-10.593	-7.388
l2_ged_dummy_sb	0.5583	0.096	5.842	0.000	0.371	0.746
l3_ged_dummy_sb	0.5805	0.096	6.033	0.000	0.392	0.769
l4_ged_dummy_sb	0.3397	0.099	3.432	0.001	0.146	0.534
l5_ged_dummy_sb	0.1263	0.102	1.239	0.215	-0.074	0.326
l6_ged_dummy_sb	0.2263	0.103	2.195	0.028	0.024	0.428
l7_ged_dummy_sb	0.1588	0.105	1.515	0.130	-0.047	0.364
l8_ged_dummy_sb	0.0684	0.107	0.641	0.522	-0.141	0.278
l9_ged_dummy_sb	0.0736	0.108	0.682	0.495	-0.138	0.285
l10_ged_dummy_sb	0.1324	0.108	1.222	0.222	-0.080	0.345
l11_ged_dummy_sb	0.1277	0.109	1.173	0.241	-0.086	0.341
l12_ged_dummy_sb	0.3557	0.104	3.428	0.001	0.152	0.559
l1_ged_dummy_sb	0.9726	0.097	9.979	0.000	0.782	1.164
l1_ged_dummy_ns	0.0360	0.144	0.249	0.803	-0.247	0.319
l1_ged_dummy_os	0.5489	0.110	4.981	0.000	0.333	0.765
decay_12_cw_ged_dummy_sb_0	3.0750	0.212	14.486	0.000	2.659	3.491
decay_12_cw_ged_dummy_ns_0	0.0277	0.152	0.182	0.856	-0.270	0.325
decay_12_cw_ged_dummy_os_0	0.4747	0.172	2.768	0.006	0.139	0.811
fvp_lngdpcap_nonoilrent	0.3413	0.094	3.649	0.000	0.158	0.525
fvp_lngdpcap_oilrent	0.0251	0.020	1.251	0.211	-0.014	0.065
fvp_grgdpcap_oilrent	-0.1124	0.101	-1.113	0.266	-0.310	0.085
fvp_grgdpcap_nonoilrent	-0.7773	0.324	-2.399	0.016	-1.412	-0.142
ln_fvp_timeindep	0.0808	0.105	0.768	0.442	-0.125	0.287
ln_fvp_timesincepreindepwar	-0.0470	0.093	-0.508	0.611	-0.228	0.134
ln_fvp_timesinceregimechange	-0.0961	0.048	-1.999	0.046	-0.190	-0.002
fvp_demo	-0.3803	0.131	-2.893	0.004	-0.638	-0.123
fvp_semi	-0.1437	0.112	-1.280	0.201	-0.364	0.076
fvp_prop_excluded	0.0716	0.178	0.402	0.687	-0.277	0.420
ln_fvp_population200	0.2186	0.048	4.574	0.000	0.125	0.312
ssp2_edu_sec_15_24_prop	-1.0353	0.374	-2.766	0.006	-1.769	-0.302
ssp2_urban_share_iiasa	-0.0071	0.004	-1.918	0.055	-0.014	0.000

2.1.5 ns_eval

Dep. Variable:	ged_dummy_ns	**No. Observations:**	15565
Model:	Logit	**Df Residuals:**	15534
Method:	MLE	**Df Model:**	30
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.5675
Time:	21:17:17	**Log-Likelihood:**	-1810.1
converged:	True	**LL-Null:**	-4185.4

	coef	std err	z	P>|z|	[0.025	0.975]
Intercept	-9.1841	0.836	-10.989	0.000	-10.822	-7.546
l2_ged_dummy_ns	0.4958	0.104	4.787	0.000	0.293	0.699
l3_ged_dummy_ns	0.2547	0.104	2.438	0.015	0.050	0.459
l4_ged_dummy_ns	0.1614	0.106	1.521	0.128	-0.047	0.369
l5_ged_dummy_ns	0.1587	0.107	1.482	0.138	-0.051	0.368
l6_ged_dummy_ns	0.4467	0.106	4.203	0.000	0.238	0.655
l7_ged_dummy_ns	0.2930	0.107	2.727	0.006	0.082	0.504
l8_ged_dummy_ns	0.0062	0.110	0.056	0.955	-0.210	0.222
l9_ged_dummy_ns	0.1029	0.111	0.926	0.355	-0.115	0.321
l10_ged_dummy_ns	0.2695	0.111	2.432	0.015	0.052	0.487
l11_ged_dummy_ns	0.2992	0.111	2.701	0.007	0.082	0.516
l12_ged_dummy_ns	0.2275	0.109	2.085	0.037	0.014	0.441
l1_ged_dummy_sb	-0.0254	0.142	-0.178	0.858	-0.304	0.254
l1_ged_dummy_ns	0.6315	0.107	5.915	0.000	0.422	0.841
l1_ged_dummy_os	-0.0463	0.125	-0.369	0.712	-0.292	0.200
decay_12_cw_ged_dummy_sb_0	0.2373	0.189	1.256	0.209	-0.133	0.608
decay_12_cw_ged_dummy_ns_0	3.5101	0.239	14.661	0.000	3.041	3.979
decay_12_cw_ged_dummy_os_0	0.6319	0.198	3.186	0.001	0.243	1.021
fvp_lngdpcap_nonoilrent	0.1832	0.092	2.001	0.045	0.004	0.363
fvp_lngdpcap_oilrent	-0.0172	0.023	-0.750	0.453	-0.062	0.028
fvp_grgdpcap_oilrent	-0.2067	0.126	-1.635	0.102	-0.455	0.041
fvp_grgdpcap_nonoilrent	-1.5023	0.312	-4.817	0.000	-2.114	-0.891
ln_fvp_timeindep	0.0697	0.111	0.628	0.530	-0.148	0.287
ln_fvp_timesincepreindepwar	-0.0492	0.105	-0.470	0.639	-0.255	0.156
ln_fvp_timesinceregimechange	-0.0254	0.053	-0.476	0.634	-0.130	0.079
fvp_demo	-0.0830	0.162	-0.514	0.607	-0.400	0.234
fvp_semi	-0.1043	0.140	-0.743	0.457	-0.379	0.171
fvp_prop_excluded	-0.1196	0.251	-0.476	0.634	-0.612	0.373
ln_fvp_population200	0.2357	0.055	4.279	0.000	0.128	0.344
ssp2_edu_sec_15_24_prop	-0.3578	0.366	-0.976	0.329	-1.076	0.360
ssp2_urban_share_iiasa	0.0039	0.004	0.915	0.360	-0.004	0.012

2.1.6 os_eval

Dep. Variable:	ged_dummy_os	**No. Observations:**	15565
Model:	Logit	**Df Residuals:**	15534
Method:	MLE	**Df Model:**	30
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.5532
Time:	21:17:17	**Log-Likelihood:**	-2754.5
converged:	True	**LL-Null:**	-6165.4

	coef	std err	z	P>|z|	[0.025	0.975]
Intercept	-4.2715	0.677	-6.311	0.000	-5.598	-2.945
l2_ged_dummy_os	0.5460	0.087	6.267	0.000	0.375	0.717
l3_ged_dummy_os	0.3965	0.088	4.487	0.000	0.223	0.570
l4_ged_dummy_os	0.3151	0.090	3.507	0.000	0.139	0.491
l5_ged_dummy_os	0.3259	0.091	3.586	0.000	0.148	0.504
l6_ged_dummy_os	0.1244	0.093	1.338	0.181	-0.058	0.307
l7_ged_dummy_os	-0.0251	0.095	-0.264	0.792	-0.211	0.161
l8_ged_dummy_os	0.2554	0.094	2.719	0.007	0.071	0.439
l9_ged_dummy_os	0.1863	0.095	1.965	0.049	0.000	0.372
l10_ged_dummy_os	0.1315	0.096	1.374	0.170	-0.056	0.319
l11_ged_dummy_os	-0.0036	0.096	-0.037	0.970	-0.192	0.185
l12_ged_dummy_os	0.2421	0.093	2.608	0.009	0.060	0.424
l1_ged_dummy_sb	0.3723	0.108	3.457	0.001	0.161	0.583
l1_ged_dummy_ns	0.2257	0.124	1.818	0.069	-0.018	0.469
l1_ged_dummy_os	0.9914	0.089	11.165	0.000	0.817	1.165
decay_12_cw_ged_dummy_sb_0	0.7181	0.151	4.766	0.000	0.423	1.014
decay_12_cw_ged_dummy_ns_0	0.2476	0.136	1.822	0.068	-0.019	0.514
decay_12_cw_ged_dummy_os_0	2.1982	0.191	11.523	0.000	1.824	2.572
fvp_lngdpcap_nonoilrent	-0.3373	0.080	-4.223	0.000	-0.494	-0.181
fvp_lngdpcap_oilrent	0.0327	0.018	1.792	0.073	-0.003	0.068
fvp_grgdpcap_oilrent	-0.2215	0.103	-2.159	0.031	-0.423	-0.020
fvp_grgdpcap_nonoilrent	-0.5362	0.248	-2.165	0.030	-1.022	-0.051
ln_fvp_timeindep	-0.1780	0.088	-2.016	0.044	-0.351	-0.005
ln_fvp_timesincepreindepwar	0.2753	0.082	3.365	0.001	0.115	0.436
ln_fvp_timesinceregimechange	0.0190	0.043	0.443	0.657	-0.065	0.103
fvp_demo	-0.2296	0.126	-1.827	0.068	-0.476	0.017
fvp_semi	-0.0137	0.103	-0.132	0.895	-0.217	0.189
fvp_prop_excluded	0.1695	0.148	1.149	0.251	-0.120	0.459
ln_fvp_population200	0.1380	0.044	3.156	0.002	0.052	0.224
ssp2_edu_sec_15_24_prop	0.4227	0.309	1.368	0.171	-0.183	1.029
ssp2_urban_share_iiasa	0.0030	0.003	0.887	0.375	-0.004	0.010

2.2 ds_cm_canon_mean

2.2.1 sb_fcast

Dep. Variable:	ged_dummy_sb	**No. Observations:**	18427
Model:	Logit	**Df Residuals:**	18425
Method:	MLE	**Df Model:**	1
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.3409
Time:	21:17:04	**Log-Likelihood:**	-5309.9
converged:	True	**LL-Null:**	-8056.3

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
Intercept	-3.4105	0.044	-78.027	0.000	-3.496	-3.325
mean_ged_dummy_sb	9.7975	0.163	59.970	0.000	9.477	10.118

2.2.2 ns_fcast

Dep. Variable:	ged_dummy_ns	**No. Observations:**	18427
Model:	Logit	**Df Residuals:**	18425
Method:	MLE	**Df Model:**	1
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.3534
Time:	21:17:04	**Log-Likelihood:**	-3433.5
converged:	True	**LL-Null:**	-5310.5

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
Intercept	-3.8157	0.050	-75.899	0.000	-3.914	-3.717
mean_ged_dummy_ns	10.9842	0.203	54.063	0.000	10.586	11.382

2.2.3 os_fcast

Dep. Variable:	ged_dummy_os	**No. Observations:**	18427
Model:	Logit	**Df Residuals:**	18425
Method:	MLE	**Df Model:**	1
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.2782
Time:	21:17:04	**Log-Likelihood:**	-5533.7
converged:	True	**LL-Null:**	-7666.7

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
Intercept	-3.3866	0.045	-76.094	0.000	-3.474	-3.299
mean_ged_dummy_os	10.2721	0.192	53.473	0.000	9.896	10.649

2.2.4 sb_eval

Dep. Variable:	ged_dummy_sb	**No. Observations:**	16213
Model:	Logit	**Df Residuals:**	16211
Method:	MLE	**Df Model:**	1
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.3527
Time:	21:17:07	**Log-Likelihood:**	-4376.0
converged:	True	**LL-Null:**	-6760.9

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
Intercept	-3.4204	0.046	-74.068	0.000	-3.511	-3.330
mean_ged_dummy_sb	11.0427	0.197	56.001	0.000	10.656	11.429

2.2.5 ns_eval

Dep. Variable:	ged_dummy_ns	**No. Observations:**	16213
Model:	Logit	**Df Residuals:**	16211
Method:	MLE	**Df Model:**	1
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.3501
Time:	21:17:07	**Log-Likelihood:**	-2787.3
converged:	True	**LL-Null:**	-4288.7

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
Intercept	-3.8613	0.055	-70.792	0.000	-3.968	-3.754
mean_ged_dummy_ns	12.4265	0.252	49.327	0.000	11.933	12.920

2.2.6 os_eval

Dep. Variable:	ged_dummy_os	**No. Observations:**	16213
Model:	Logit	**Df Residuals:**	16211
Method:	MLE	**Df Model:**	1
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.2780
Time:	21:17:07	**Log-Likelihood:**	-4631.8
converged:	True	**LL-Null:**	-6415.4

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
Intercept	-3.4358	0.048	-70.970	0.000	-3.531	-3.341
mean_ged_dummy_os	11.8092	0.241	49.059	0.000	11.337	12.281

2.3 ds_cm_canon_demog

2.3.1 sb_fcast

Dep. Variable:	ged_dummy_sb	**No. Observations:**	18427
Model:	Logit	**Df Residuals:**	18423
Method:	MLE	**Df Model:**	3
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.1137
Time:	21:17:03	**Log-Likelihood:**	-7140.3
converged:	True	**LL-Null:**	-8056.3

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
Intercept	-8.0810	0.199	-40.674	0.000	-8.470	-7.692
ln_fvp_population200	0.7162	0.020	35.989	0.000	0.677	0.755
ssp2_edu_sec_15_24_prop	-1.4781	0.129	-11.425	0.000	-1.732	-1.225
ssp2_urban_share_iiasa	0.0045	0.002	2.768	0.006	0.001	0.008

2.3.2 ns_fcast

Dep. Variable:	ged_dummy_ns	**No. Observations:**	18427
Model:	Logit	**Df Residuals:**	18423
Method:	MLE	**Df Model:**	3
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.1663
Time:	21:17:03	**Log-Likelihood:**	-4427.3
converged:	True	**LL-Null:**	-5310.5

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
Intercept	-11.0368	0.290	-38.062	0.000	-11.605	-10.468
ln_fvp_population200	0.9163	0.029	32.075	0.000	0.860	0.972
ssp2_edu_sec_15_24_prop	0.5590	0.164	3.402	0.001	0.237	0.881
ssp2_urban_share_iiasa	-0.0084	0.002	-3.859	0.000	-0.013	-0.004

2.3.3 os_fcast

Dep. Variable:	ged_dummy_os	**No. Observations:**	18427
Model:	Logit	**Df Residuals:**	18423
Method:	MLE	**Df Model:**	3
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.1022
Time:	21:17:03	**Log-Likelihood:**	-6883.5
converged:	True	**LL-Null:**	-7666.7

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
Intercept	-7.3461	0.198	-37.163	0.000	-7.734	-6.959
ln_fvp_population200	0.6573	0.020	33.001	0.000	0.618	0.696
ssp2_edu_sec_15_24_prop	-1.2702	0.132	-9.607	0.000	-1.529	-1.011
ssp2_urban_share_iiasa	-0.0040	0.002	-2.352	0.019	-0.007	-0.001

2.3.4 sb_eval

Dep. Variable:	ged_dummy_sb	**No. Observations:**	16213
Model:	Logit	**Df Residuals:**	16209
Method:	MLE	**Df Model:**	3
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.1124
Time:	21:20:54	**Log-Likelihood:**	-6000.6
converged:	True	**LL-Null:**	-6760.9

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
Intercept	-7.8542	0.217	-36.120	0.000	-8.280	-7.428
ln_fvp_population200	0.7072	0.022	32.182	0.000	0.664	0.750
ssp2_edu_sec_15_24_prop	-2.0149	0.147	-13.739	0.000	-2.302	-1.727
ssp2_urban_share_iiasa	0.0028	0.002	1.518	0.129	-0.001	0.006

2.3.5 ns_eval

Dep. Variable:	ged_dummy_ns	**No. Observations:**	16213
Model:	Logit	**Df Residuals:**	16209
Method:	MLE	**Df Model:**	3
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.1830
Time:	21:20:54	**Log-Likelihood:**	-3503.9
converged:	True	**LL-Null:**	-4288.7

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
Intercept	-11.7726	0.337	-34.939	0.000	-12.433	-11.112
ln_fvp_population200	0.9983	0.033	29.943	0.000	0.933	1.064
ssp2_edu_sec_15_24_prop	0.5542	0.188	2.951	0.003	0.186	0.922
ssp2_urban_share_iiasa	-0.0133	0.002	-5.343	0.000	-0.018	-0.008

2.3.6 os_eval

Dep. Variable:	ged_dummy_os	**No. Observations:**	16213
Model:	Logit	**Df Residuals:**	16209
Method:	MLE	**Df Model:**	3
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.09742
Time:	21:20:54	**Log-Likelihood:**	-5790.4
converged:	True	**LL-Null:**	-6415.4

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
Intercept	-7.2727	0.216	-33.709	0.000	-7.696	-6.850
ln_fvp_population200	0.6433	0.022	29.489	0.000	0.601	0.686
ssp2_edu_sec_15_24_prop	-1.5243	0.148	-10.303	0.000	-1.814	-1.234
ssp2_urban_share_iiasa	-0.0027	0.002	-1.470	0.141	-0.006	0.001

2.4 ds_cm_canon_eco

2.4.1 sb_fcast

Dep. Variable:	ged_dummy_sb	**No. Observations:**	18427
Model:	Logit	**Df Residuals:**	18422
Method:	MLE	**Df Model:**	4
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.06129
Time:	21:17:03	**Log-Likelihood:**	-7562.6
converged:	True	**LL-Null:**	-8056.3

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
Intercept	2.7373	0.206	13.293	0.000	2.334	3.141
fvp_lngdpcap_nonoilrent	-0.6208	0.028	-22.219	0.000	-0.676	-0.566
fvp_lngdpcap_oilrent	0.2185	0.008	27.125	0.000	0.203	0.234
fvp_grgdpcap_oilrent	-0.6335	0.067	-9.494	0.000	-0.764	-0.503
fvp_grgdpcap_nonoilrent	-0.2176	0.109	-1.992	0.046	-0.432	-0.003

2.4.2 ns_fcast

Dep. Variable:	ged_dummy_ns	**No. Observations:**	18427
Model:	Logit	**Df Residuals:**	18422
Method:	MLE	**Df Model:**	4
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.01671
Time:	21:17:03	**Log-Likelihood:**	-5221.8
converged:	True	**LL-Null:**	-5310.5

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
Intercept	-1.0620	0.246	-4.323	0.000	-1.543	-0.580
fvp_lngdpcap_nonoilrent	-0.1960	0.032	-6.036	0.000	-0.260	-0.132
fvp_lngdpcap_oilrent	0.1121	0.010	11.451	0.000	0.093	0.131
fvp_grgdpcap_oilrent	-0.4978	0.083	-5.994	0.000	-0.661	-0.335
fvp_grgdpcap_nonoilrent	-0.3967	0.129	-3.084	0.002	-0.649	-0.145

2.4.3 os_fcast

Dep. Variable:	ged_dummy_os	**No. Observations:**	18427
Model:	Logit	**Df Residuals:**	18422
Method:	MLE	**Df Model:**	4
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.07439
Time:	21:17:03	**Log-Likelihood:**	-7096.4
converged:	True	**LL-Null:**	-7666.7

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
Intercept	4.5747	0.227	20.182	0.000	4.130	5.019
fvp_lngdpcap_nonoilrent	-0.8707	0.031	-27.946	0.000	-0.932	-0.810
fvp_lngdpcap_oilrent	0.2000	0.009	22.719	0.000	0.183	0.217
fvp_grgdpcap_oilrent	-0.6770	0.072	-9.414	0.000	-0.818	-0.536
fvp_grgdpcap_nonoilrent	-0.2436	0.122	-1.998	0.046	-0.483	-0.005

2.4.4 sb_eval

Dep. Variable:	ged_dummy_sb	**No. Observations:**	16213
Model:	Logit	**Df Residuals:**	16208
Method:	MLE	**Df Model:**	4
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.06561
Time:	21:17:10	**Log-Likelihood:**	-6317.3
converged:	True	**LL-Null:**	-6760.9

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
Intercept	3.3704	0.235	14.332	0.000	2.910	3.831
fvp_lngdpcap_nonoilrent	-0.7166	0.032	-22.283	0.000	-0.780	-0.654
fvp_lngdpcap_oilrent	0.2180	0.009	23.865	0.000	0.200	0.236
fvp_grgdpcap_oilrent	-0.6801	0.074	-9.207	0.000	-0.825	-0.535
fvp_grgdpcap_nonoilrent	-0.5694	0.160	-3.568	0.000	-0.882	-0.257

2.4.5 ns_eval

Dep. Variable:	ged_dummy_ns	**No. Observations:**	16213
Model:	Logit	**Df Residuals:**	16208
Method:	MLE	**Df Model:**	4
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.01165
Time:	21:17:10	**Log-Likelihood:**	-4238.8
converged:	True	**LL-Null:**	-4288.7

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
Intercept	-1.5546	0.278	-5.598	0.000	-2.099	-1.010
fvp_lngdpcap_nonoilrent	-0.1397	0.037	-3.812	0.000	-0.212	-0.068
fvp_lngdpcap_oilrent	0.0717	0.011	6.242	0.000	0.049	0.094
fvp_grgdpcap_oilrent	-0.4968	0.094	-5.269	0.000	-0.682	-0.312
fvp_grgdpcap_nonoilrent	-0.8217	0.163	-5.027	0.000	-1.142	-0.501

2.4.6 os_eval

Dep. Variable:	ged_dummy_os	**No. Observations:**	16213
Model:	Logit	**Df Residuals:**	16208
Method:	MLE	**Df Model:**	4
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.07799
Time:	21:17:10	**Log-Likelihood:**	-5915.1
converged:	True	**LL-Null:**	-6415.4

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
Intercept	4.7421	0.257	18.458	0.000	4.239	5.246
fvp_lngdpcap_nonoilrent	-0.9073	0.035	-25.581	0.000	-0.977	-0.838
fvp_lngdpcap_oilrent	0.2002	0.010	20.204	0.000	0.181	0.220
fvp_grgdpcap_oilrent	-0.6971	0.079	-8.839	0.000	-0.852	-0.542
fvp_grgdpcap_nonoilrent	-0.9479	0.186	-5.092	0.000	-1.313	-0.583

2.5 ds_cm_canon_hist

2.5.1 sb_fcast

Dep. Variable:	ged_dummy_sb	**No. Observations:**	17779
Model:	Logit	**Df Residuals:**	17761
Method:	MLE	**Df Model:**	17
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.6480
Time:	21:17:03	**Log-Likelihood:**	-2753.3
converged:	True	**LL-Null:**	-7822.5

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
Intercept	-5.2334	0.118	-44.381	0.000	-5.465	-5.002
l2_ged_dummy_sb	0.6026	0.087	6.957	0.000	0.433	0.772
l3_ged_dummy_sb	0.5715	0.087	6.532	0.000	0.400	0.743
l4_ged_dummy_sb	0.3519	0.090	3.916	0.000	0.176	0.528
l5_ged_dummy_sb	0.1583	0.093	1.707	0.088	-0.023	0.340
l6_ged_dummy_sb	0.3036	0.093	3.254	0.001	0.121	0.486
l7_ged_dummy_sb	0.1779	0.095	1.870	0.061	-0.009	0.364
l8_ged_dummy_sb	0.1307	0.097	1.352	0.176	-0.059	0.320
l9_ged_dummy_sb	0.1244	0.098	1.270	0.204	-0.068	0.316
l10_ged_dummy_sb	0.1468	0.098	1.493	0.136	-0.046	0.340
l11_ged_dummy_sb	0.1075	0.099	1.087	0.277	-0.086	0.301
l12_ged_dummy_sb	0.3459	0.094	3.663	0.000	0.161	0.531
l1_ged_dummy_sb	0.9585	0.088	10.923	0.000	0.787	1.131
l1_ged_dummy_ns	0.0772	0.127	0.608	0.543	-0.172	0.326
l1_ged_dummy_os	0.5220	0.098	5.337	0.000	0.330	0.714
decay_12_cw_ged_dummy_sb_0	3.1047	0.187	16.597	0.000	2.738	3.471
decay_12_cw_ged_dummy_ns_0	0.2198	0.129	1.709	0.087	-0.032	0.472
decay_12_cw_ged_dummy_os_0	0.3446	0.150	2.303	0.021	0.051	0.638

2.5.2 ns_fcast

Dep. Variable:	ged_dummy_ns	**No. Observations:**	17779
Model:	Logit	**Df Residuals:**	17761
Method:	MLE	**Df Model:**	17
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.5831
Time:	21:17:03	**Log-Likelihood:**	-2169.1
converged:	True	**LL-Null:**	-5203.1

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
Intercept	-5.6398	0.134	-42.219	0.000	-5.902	-5.378
l2_ged_dummy_ns	0.4894	0.095	5.152	0.000	0.303	0.676
l3_ged_dummy_ns	0.2594	0.096	2.695	0.007	0.071	0.448
l4_ged_dummy_ns	0.2581	0.097	2.657	0.008	0.068	0.448
l5_ged_dummy_ns	0.1569	0.099	1.587	0.113	-0.037	0.351
l6_ged_dummy_ns	0.4222	0.098	4.310	0.000	0.230	0.614
l7_ged_dummy_ns	0.3670	0.099	3.724	0.000	0.174	0.560
l8_ged_dummy_ns	0.0666	0.101	0.658	0.510	-0.132	0.265
l9_ged_dummy_ns	0.1652	0.102	1.624	0.104	-0.034	0.364
l10_ged_dummy_ns	0.3171	0.101	3.126	0.002	0.118	0.516
l11_ged_dummy_ns	0.3008	0.102	2.963	0.003	0.102	0.500
l12_ged_dummy_ns	0.2835	0.100	2.842	0.004	0.088	0.479
l1_ged_dummy_sb	0.1257	0.125	1.002	0.317	-0.120	0.372
l1_ged_dummy_ns	0.6406	0.097	6.594	0.000	0.450	0.831
l1_ged_dummy_os	0.0127	0.111	0.115	0.909	-0.205	0.230
decay_12_cw_ged_dummy_sb_0	0.1136	0.164	0.691	0.490	-0.209	0.436
decay_12_cw_ged_dummy_ns_0	3.5345	0.209	16.891	0.000	3.124	3.945
decay_12_cw_ged_dummy_os_0	0.6257	0.178	3.513	0.000	0.277	0.975

2.5.3 os_fcast

Dep. Variable:	ged_dummy_os	**No. Observations:**	17779
Model:	Logit	**Df Residuals:**	17761
Method:	MLE	**Df Model:**	17
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.5562
Time:	21:17:03	**Log-Likelihood:**	-3291.2
converged:	True	**LL-Null:**	-7416.0

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
Intercept	-4.8120	0.099	-48.374	0.000	-5.007	-4.617
l2_ged_dummy_os	0.5889	0.080	7.384	0.000	0.433	0.745
l3_ged_dummy_os	0.4238	0.081	5.227	0.000	0.265	0.583
l4_ged_dummy_os	0.3710	0.083	4.491	0.000	0.209	0.533
l5_ged_dummy_os	0.3523	0.084	4.211	0.000	0.188	0.516
l6_ged_dummy_os	0.0875	0.086	1.016	0.310	-0.081	0.256
l7_ged_dummy_os	0.0780	0.087	0.895	0.371	-0.093	0.249
l8_ged_dummy_os	0.1727	0.087	1.984	0.047	0.002	0.343
l9_ged_dummy_os	0.1803	0.087	2.062	0.039	0.009	0.352
l10_ged_dummy_os	0.1847	0.088	2.103	0.035	0.013	0.357
l11_ged_dummy_os	0.0611	0.088	0.692	0.489	-0.112	0.234
l12_ged_dummy_os	0.2695	0.085	3.165	0.002	0.103	0.436
l1_ged_dummy_sb	0.3638	0.094	3.859	0.000	0.179	0.549
l1_ged_dummy_ns	0.1824	0.110	1.657	0.097	-0.033	0.398
l1_ged_dummy_os	0.9963	0.081	12.331	0.000	0.838	1.155
decay_12_cw_ged_dummy_sb_0	0.6097	0.131	4.669	0.000	0.354	0.866
decay_12_cw_ged_dummy_ns_0	0.3346	0.115	2.897	0.004	0.108	0.561
decay_12_cw_ged_dummy_os_0	2.3036	0.168	13.747	0.000	1.975	2.632

2.5.4 sb_eval

Dep. Variable:	ged_dummy_sb	**No. Observations:**	15565
Model:	Logit	**Df Residuals:**	15547
Method:	MLE	**Df Model:**	17
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.6431
Time:	21:17:11	**Log-Likelihood:**	-2330.4
converged:	True	**LL-Null:**	-6529.4

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
Intercept	-5.2927	0.128	-41.240	0.000	-5.544	-5.041
l2_ged_dummy_sb	0.5973	0.095	6.299	0.000	0.411	0.783
l3_ged_dummy_sb	0.6142	0.096	6.425	0.000	0.427	0.802
l4_ged_dummy_sb	0.3595	0.098	3.651	0.000	0.167	0.552
l5_ged_dummy_sb	0.1436	0.102	1.413	0.158	-0.056	0.343
l6_ged_dummy_sb	0.2356	0.103	2.293	0.022	0.034	0.437
l7_ged_dummy_sb	0.1740	0.104	1.667	0.096	-0.031	0.379
l8_ged_dummy_sb	0.0701	0.106	0.659	0.510	-0.139	0.279
l9_ged_dummy_sb	0.0952	0.108	0.883	0.377	-0.116	0.307
l10_ged_dummy_sb	0.1449	0.108	1.340	0.180	-0.067	0.357
l11_ged_dummy_sb	0.1398	0.109	1.287	0.198	-0.073	0.353
l12_ged_dummy_sb	0.3784	0.103	3.657	0.000	0.176	0.581
l1_ged_dummy_sb	1.0261	0.096	10.691	0.000	0.838	1.214
l1_ged_dummy_ns	0.0440	0.143	0.308	0.758	-0.236	0.324
l1_ged_dummy_os	0.4691	0.108	4.352	0.000	0.258	0.680
decay_12_cw_ged_dummy_sb_0	3.1372	0.202	15.514	0.000	2.741	3.534
decay_12_cw_ged_dummy_ns_0	0.2424	0.140	1.737	0.082	-0.031	0.516
decay_12_cw_ged_dummy_os_0	0.4029	0.162	2.491	0.013	0.086	0.720

2.5.5 ns_eval

Dep. Variable:	ged_dummy_ns	**No. Observations:**	15565
Model:	Logit	**Df Residuals:**	15547
Method:	MLE	**Df Model:**	17
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.5623
Time:	21:17:11	**Log-Likelihood:**	-1832.0
converged:	True	**LL-Null:**	-4185.4

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
Intercept	-5.6963	0.146	-39.045	0.000	-5.982	-5.410
l2_ged_dummy_ns	0.5094	0.103	4.957	0.000	0.308	0.711
l3_ged_dummy_ns	0.2728	0.104	2.626	0.009	0.069	0.476
l4_ged_dummy_ns	0.1862	0.105	1.766	0.077	-0.020	0.393
l5_ged_dummy_ns	0.1827	0.107	1.715	0.086	-0.026	0.391
l6_ged_dummy_ns	0.4679	0.106	4.430	0.000	0.261	0.675
l7_ged_dummy_ns	0.3242	0.107	3.041	0.002	0.115	0.533
l8_ged_dummy_ns	0.0334	0.110	0.304	0.761	-0.181	0.248
l9_ged_dummy_ns	0.1263	0.110	1.144	0.253	-0.090	0.343
l10_ged_dummy_ns	0.2952	0.110	2.677	0.007	0.079	0.511
l11_ged_dummy_ns	0.3223	0.110	2.926	0.003	0.106	0.538
l12_ged_dummy_ns	0.2548	0.108	2.352	0.019	0.042	0.467
l1_ged_dummy_sb	0.1095	0.140	0.785	0.433	-0.164	0.383
l1_ged_dummy_ns	0.6408	0.105	6.074	0.000	0.434	0.848
l1_ged_dummy_os	-0.0986	0.122	-0.810	0.418	-0.337	0.140
decay_12_cw_ged_dummy_sb_0	0.0550	0.174	0.315	0.752	-0.287	0.397
decay_12_cw_ged_dummy_ns_0	3.7116	0.229	16.202	0.000	3.263	4.161
decay_12_cw_ged_dummy_os_0	0.6342	0.185	3.420	0.001	0.271	0.998

2.5.6 os_eval

Dep. Variable:	ged_dummy_os	**No. Observations:**	15565
Model:	Logit	**Df Residuals:**	15547
Method:	MLE	**Df Model:**	17
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.5482
Time:	21:17:11	**Log-Likelihood:**	-2785.5
converged:	True	**LL-Null:**	-6165.4

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
Intercept	-4.9330	0.111	-44.329	0.000	-5.151	-4.715
l2_ged_dummy_os	0.5535	0.086	6.401	0.000	0.384	0.723
l3_ged_dummy_os	0.4089	0.088	4.656	0.000	0.237	0.581
l4_ged_dummy_os	0.3395	0.089	3.800	0.000	0.164	0.515
l5_ged_dummy_os	0.3370	0.090	3.725	0.000	0.160	0.514
l6_ged_dummy_os	0.1344	0.093	1.450	0.147	-0.047	0.316
l7_ged_dummy_os	-0.0060	0.095	-0.063	0.950	-0.192	0.180
l8_ged_dummy_os	0.2659	0.094	2.839	0.005	0.082	0.449
l9_ged_dummy_os	0.1984	0.095	2.100	0.036	0.013	0.384
l10_ged_dummy_os	0.1450	0.095	1.519	0.129	-0.042	0.332
l11_ged_dummy_os	0.0137	0.096	0.143	0.886	-0.174	0.202
l12_ged_dummy_os	0.2632	0.092	2.850	0.004	0.082	0.444
l1_ged_dummy_sb	0.4179	0.104	4.035	0.000	0.215	0.621
l1_ged_dummy_ns	0.1825	0.122	1.497	0.134	-0.056	0.421
l1_ged_dummy_os	0.9875	0.088	11.253	0.000	0.815	1.159
decay_12_cw_ged_dummy_sb_0	0.5703	0.141	4.052	0.000	0.294	0.846
decay_12_cw_ged_dummy_ns_0	0.3657	0.125	2.929	0.003	0.121	0.610
decay_12_cw_ged_dummy_os_0	2.4904	0.183	13.573	0.000	2.131	2.850

2.6 ds_cm_canon_inst

2.6.1 sb_fcast

Dep. Variable:	ged_dummy_sb	**No. Observations:**	18427
Model:	Logit	**Df Residuals:**	18420
Method:	MLE	**Df Model:**	6
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.05842
Time:	21:17:05	**Log-Likelihood:**	-7585.7
converged:	True	**LL-Null:**	-8056.3

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
Intercept	-2.2839	0.184	-12.392	0.000	-2.645	-1.923
ln_fvp_timeindep	0.6936	0.050	13.993	0.000	0.596	0.791
ln_fvp_timesincepreindepwar	-0.1130	0.046	-2.436	0.015	-0.204	-0.022
ln_fvp_timesinceregimechange	-0.2973	0.021	-14.160	0.000	-0.338	-0.256
fvp_demo	-1.6349	0.069	-23.683	0.000	-1.770	-1.500
fvp_semi	-0.7859	0.055	-14.218	0.000	-0.894	-0.678
fvp_prop_excluded	0.4129	0.085	4.861	0.000	0.246	0.579

2.6.2 ns_fcast

Dep. Variable:	ged_dummy_ns	**No. Observations:**	18427
Model:	Logit	**Df Residuals:**	18420
Method:	MLE	**Df Model:**	6
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.04855
Time:	21:17:05	**Log-Likelihood:**	-5052.6
converged:	True	**LL-Null:**	-5310.5

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
Intercept	-5.7304	0.308	-18.584	0.000	-6.335	-5.126
ln_fvp_timeindep	0.9860	0.062	15.892	0.000	0.864	1.108
ln_fvp_timesincepreindepwar	0.2253	0.069	3.262	0.001	0.090	0.361
ln_fvp_timesinceregimechange	-0.2315	0.027	-8.721	0.000	-0.284	-0.179
fvp_demo	-1.0312	0.082	-12.615	0.000	-1.191	-0.871
fvp_semi	-0.9725	0.075	-12.936	0.000	-1.120	-0.825
fvp_prop_excluded	-0.5649	0.138	-4.099	0.000	-0.835	-0.295

2.6.3 os_fcast

Dep. Variable:	ged_dummy_os	**No. Observations:**	18427
Model:	Logit	**Df Residuals:**	18420
Method:	MLE	**Df Model:**	6
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.04779
Time:	21:17:05	**Log-Likelihood:**	-7300.3
converged:	True	**LL-Null:**	-7666.7

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
Intercept	-3.7784	0.220	-17.161	0.000	-4.210	-3.347
ln_fvp_timeindep	0.4709	0.052	9.140	0.000	0.370	0.572
ln_fvp_timesincepreindepwar	0.3555	0.051	6.995	0.000	0.256	0.455
ln_fvp_timesinceregimechange	-0.2425	0.021	-11.308	0.000	-0.285	-0.200
fvp_demo	-1.4772	0.070	-21.111	0.000	-1.614	-1.340
fvp_semi	-0.6689	0.057	-11.685	0.000	-0.781	-0.557
fvp_prop_excluded	0.4319	0.087	4.976	0.000	0.262	0.602

2.6.4 sb_eval

Dep. Variable:	ged_dummy_sb	**No. Observations:**	16213
Model:	Logit	**Df Residuals:**	16206
Method:	MLE	**Df Model:**	6
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.06614
Time:	21:17:04	**Log-Likelihood:**	-6313.7
converged:	True	**LL-Null:**	-6760.9

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
Intercept	-2.4849	0.204	-12.152	0.000	-2.886	-2.084
ln_fvp_timeindep	0.6946	0.054	12.877	0.000	0.589	0.800
ln_fvp_timesincepreindepwar	-0.0516	0.050	-1.022	0.307	-0.150	0.047
ln_fvp_timesinceregimechange	-0.3295	0.025	-12.936	0.000	-0.379	-0.280
fvp_demo	-1.8161	0.077	-23.486	0.000	-1.968	-1.665
fvp_semi	-0.8429	0.059	-14.263	0.000	-0.959	-0.727
fvp_prop_excluded	0.4863	0.089	5.448	0.000	0.311	0.661

2.6.5 ns_eval

Dep. Variable:	ged_dummy_ns	**No. Observations:**	16213
Model:	Logit	**Df Residuals:**	16206
Method:	MLE	**Df Model:**	6
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.05485
Time:	21:17:04	**Log-Likelihood:**	-4053.5
converged:	True	**LL-Null:**	-4288.7

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
Intercept	-6.7053	0.363	-18.447	0.000	-7.418	-5.993
ln_fvp_timeindep	1.0629	0.068	15.627	0.000	0.930	1.196
ln_fvp_timesincepreindepwar	0.3493	0.080	4.352	0.000	0.192	0.507
ln_fvp_timesinceregimechange	-0.1906	0.033	-5.719	0.000	-0.256	-0.125
fvp_demo	-1.0960	0.090	-12.155	0.000	-1.273	-0.919
fvp_semi	-1.0616	0.082	-12.932	0.000	-1.222	-0.901
fvp_prop_excluded	-0.5345	0.153	-3.502	0.000	-0.834	-0.235

2.6.6 os_eval

Dep. Variable:	ged_dummy_os	**No. Observations:**	16213
Model:	Logit	**Df Residuals:**	16206
Method:	MLE	**Df Model:**	6
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.05367
Time:	21:17:04	**Log-Likelihood:**	-6071.1
converged:	True	**LL-Null:**	-6415.4

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
Intercept	-4.2221	0.249	-16.981	0.000	-4.709	-3.735
ln_fvp_timeindep	0.4739	0.056	8.389	0.000	0.363	0.585
ln_fvp_timesincepreindepwar	0.4428	0.056	7.892	0.000	0.333	0.553
ln_fvp_timesinceregimechange	-0.2340	0.026	-8.976	0.000	-0.285	-0.183
fvp_demo	-1.6000	0.077	-20.649	0.000	-1.752	-1.448
fvp_semi	-0.7181	0.061	-11.742	0.000	-0.838	-0.598
fvp_prop_excluded	0.5378	0.091	5.889	0.000	0.359	0.717

2.7 ds_cm_acled_base

2.7.1 sb_fcast

Dep. Variable:	ged_dummy_sb	**No. Observations:**	14191
Model:	Logit	**Df Residuals:**	14158
Method:	MLE	**Df Model:**	32
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.6632
Time:	21:17:05	**Log-Likelihood:**	-2145.3
converged:	True	**LL-Null:**	-6369.4

	coef	std err	z	P>|z|	[0.025	0.975]
Intercept	-6.9811	0.761	-9.177	0.000	-8.472	-5.490
l2_ged_dummy_sb	0.6055	0.099	6.113	0.000	0.411	0.800
l3_ged_dummy_sb	0.5487	0.100	5.466	0.000	0.352	0.745
l4_ged_dummy_sb	0.2865	0.103	2.769	0.006	0.084	0.489
l5_ged_dummy_sb	0.1378	0.106	1.295	0.195	-0.071	0.346
l6_ged_dummy_sb	0.2949	0.107	2.764	0.006	0.086	0.504
l7_ged_dummy_sb	0.1704	0.109	1.569	0.117	-0.043	0.383
l8_ged_dummy_sb	0.1447	0.110	1.312	0.190	-0.071	0.361
l9_ged_dummy_sb	0.1214	0.112	1.083	0.279	-0.098	0.341
l10_ged_dummy_sb	0.0907	0.113	0.804	0.422	-0.130	0.312
l11_ged_dummy_sb	0.1429	0.113	1.269	0.204	-0.078	0.364
l12_ged_dummy_sb	0.3641	0.108	3.381	0.001	0.153	0.575
l1_ged_dummy_sb	0.9176	0.100	9.139	0.000	0.721	1.114
l1_ged_dummy_ns	-0.0655	0.141	-0.464	0.643	-0.342	0.211
l1_ged_dummy_os	0.5337	0.113	4.738	0.000	0.313	0.754
l1_acled_dummy_pr	0.2946	0.113	2.608	0.009	0.073	0.516
decay_12_cw_ged_dummy_sb_0	2.8933	0.212	13.633	0.000	2.477	3.309
decay_12_cw_ged_dummy_ns_0	0.2444	0.157	1.561	0.118	-0.062	0.551
decay_12_cw_ged_dummy_os_0	0.4136	0.177	2.343	0.019	0.068	0.760
decay_12_cw_acled_dummy_pr_0	-0.2293	0.196	-1.168	0.243	-0.614	0.155
fvp_lngdpcap_nonoilrent	0.1397	0.090	1.548	0.122	-0.037	0.317
fvp_lngdpcap_oilrent	0.0192	0.020	0.966	0.334	-0.020	0.058
fvp_grgdpcap_oilrent	-0.0618	0.098	-0.630	0.529	-0.254	0.130
fvp_grgdpcap_nonoilrent	-0.4768	0.340	-1.400	0.161	-1.144	0.191
ln_fvp_timeindep	0.0497	0.117	0.426	0.670	-0.179	0.278
ln_fvp_timesincepreindepwar	-0.1101	0.101	-1.091	0.275	-0.308	0.088
ln_fvp_timesinceregimechange	-0.0114	0.042	-0.271	0.786	-0.094	0.071
fvp_demo	-0.1632	0.143	-1.139	0.255	-0.444	0.118
fvp_semi	-0.0242	0.126	-0.193	0.847	-0.271	0.222
fvp_prop_excluded	-0.0760	0.200	-0.381	0.704	-0.467	0.315
ln_fvp_population200	0.1512	0.045	3.325	0.001	0.062	0.240
ssp2_edu_sec_15_24_prop	-0.7578	0.352	-2.150	0.032	-1.449	-0.067
ssp2_urban_share_iiasa	0.0011	0.004	0.280	0.779	-0.006	0.009

2.7.2 ns_fcast

Dep. Variable:	ged_dummy_ns	**No. Observations:**	14191
Model:	Logit	**Df Residuals:**	14158
Method:	MLE	**Df Model:**	32
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.6012
Time:	21:17:05	**Log-Likelihood:**	-1727.6
converged:	True	**LL-Null:**	-4332.1

	coef	std err	z	P>|z|	[0.025	0.975]
Intercept	-7.3277	0.792	-9.248	0.000	-8.881	-5.775
l2_ged_dummy_ns	0.5050	0.104	4.841	0.000	0.301	0.709
l3_ged_dummy_ns	0.2650	0.105	2.521	0.012	0.059	0.471
l4_ged_dummy_ns	0.2712	0.106	2.563	0.010	0.064	0.479
l5_ged_dummy_ns	0.0919	0.108	0.850	0.396	-0.120	0.304
l6_ged_dummy_ns	0.3232	0.108	3.000	0.003	0.112	0.534
l7_ged_dummy_ns	0.3036	0.108	2.800	0.005	0.091	0.516
l8_ged_dummy_ns	0.0472	0.111	0.426	0.670	-0.170	0.264
l9_ged_dummy_ns	0.1670	0.111	1.510	0.131	-0.050	0.384
l10_ged_dummy_ns	0.3049	0.110	2.767	0.006	0.089	0.521
l11_ged_dummy_ns	0.2752	0.111	2.485	0.013	0.058	0.492
l12_ged_dummy_ns	0.1732	0.110	1.581	0.114	-0.041	0.388
l1_ged_dummy_sb	0.0694	0.138	0.502	0.616	-0.202	0.340
l1_ged_dummy_ns	0.5871	0.107	5.468	0.000	0.377	0.798
l1_ged_dummy_os	0.0435	0.126	0.344	0.731	-0.204	0.291
l1_acled_dummy_pr	0.6171	0.132	4.679	0.000	0.359	0.876
decay_12_cw_ged_dummy_sb_0	0.3714	0.201	1.850	0.064	-0.022	0.765
decay_12_cw_ged_dummy_ns_0	3.3843	0.244	13.884	0.000	2.907	3.862
decay_12_cw_ged_dummy_os_0	0.5246	0.217	2.415	0.016	0.099	0.950
decay_12_cw_acled_dummy_pr_0	-0.7502	0.250	-3.006	0.003	-1.239	-0.261
fvp_lngdpcap_nonoilrent	0.0524	0.091	0.573	0.567	-0.127	0.232
fvp_lngdpcap_oilrent	0.0247	0.023	1.055	0.292	-0.021	0.071
fvp_grgdpcap_oilrent	-0.1145	0.123	-0.928	0.353	-0.356	0.127
fvp_grgdpcap_nonoilrent	-0.8059	0.359	-2.245	0.025	-1.510	-0.102
ln_fvp_timeindep	0.0291	0.131	0.223	0.824	-0.227	0.285
ln_fvp_timesincepreindepwar	-0.0268	0.112	-0.240	0.810	-0.245	0.192
ln_fvp_timesinceregimechange	-0.0359	0.048	-0.747	0.455	-0.130	0.058
fvp_demo	0.1382	0.163	0.850	0.395	-0.181	0.457
fvp_semi	0.0906	0.150	0.602	0.547	-0.204	0.385
fvp_prop_excluded	-0.4099	0.303	-1.351	0.177	-1.004	0.185
ln_fvp_population200	0.1654	0.051	3.236	0.001	0.065	0.266
ssp2_edu_sec_15_24_prop	-0.3203	0.347	-0.924	0.355	-1.000	0.359
ssp2_urban_share_iiasa	0.0039	0.004	0.882	0.378	-0.005	0.012

2.7.3 os_fcast

Dep. Variable:	ged_dummy_os	**No. Observations:**	14191
Model:	Logit	**Df Residuals:**	14158
Method:	MLE	**Df Model:**	32
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.5833
Time:	21:17:05	**Log-Likelihood:**	-2485.6
converged:	True	**LL-Null:**	-5964.5

	coef	std err	z	P>|z|	[0.025	0.975]
Intercept	-3.6745	0.652	-5.638	0.000	-4.952	-2.397
l2_ged_dummy_os	0.5234	0.093	5.658	0.000	0.342	0.705
l3_ged_dummy_os	0.4119	0.094	4.398	0.000	0.228	0.595
l4_ged_dummy_os	0.3625	0.095	3.804	0.000	0.176	0.549
l5_ged_dummy_os	0.3402	0.097	3.524	0.000	0.151	0.529
l6_ged_dummy_os	0.1050	0.099	1.059	0.290	-0.089	0.299
l7_ged_dummy_os	0.0214	0.101	0.212	0.832	-0.177	0.220
l8_ged_dummy_os	0.1105	0.101	1.094	0.274	-0.087	0.308
l9_ged_dummy_os	0.2003	0.101	1.985	0.047	0.002	0.398
l10_ged_dummy_os	0.1788	0.101	1.763	0.078	-0.020	0.378
l11_ged_dummy_os	0.0540	0.102	0.529	0.597	-0.146	0.254
l12_ged_dummy_os	0.1999	0.099	2.022	0.043	0.006	0.394
l1_ged_dummy_sb	0.3354	0.110	3.061	0.002	0.121	0.550
l1_ged_dummy_ns	0.2450	0.126	1.950	0.051	-0.001	0.491
l1_ged_dummy_os	0.9721	0.094	10.386	0.000	0.789	1.156
l1_acled_dummy_pr	0.1113	0.101	1.103	0.270	-0.086	0.309
decay_12_cw_ged_dummy_sb_0	0.9517	0.157	6.049	0.000	0.643	1.260
decay_12_cw_ged_dummy_ns_0	0.1433	0.144	0.995	0.320	-0.139	0.426
decay_12_cw_ged_dummy_os_0	1.8777	0.195	9.652	0.000	1.496	2.259
decay_12_cw_acled_dummy_pr_0	0.3413	0.200	1.710	0.087	-0.050	0.732
fvp_lngdpcap_nonoilrent	-0.3960	0.077	-5.143	0.000	-0.547	-0.245
fvp_lngdpcap_oilrent	0.0415	0.019	2.202	0.028	0.005	0.078
fvp_grgdpcap_oilrent	-0.2242	0.103	-2.175	0.030	-0.426	-0.022
fvp_grgdpcap_nonoilrent	0.0649	0.280	0.232	0.816	-0.484	0.613
ln_fvp_timeindep	-0.4186	0.109	-3.857	0.000	-0.631	-0.206
ln_fvp_timesincepreindepwar	0.3697	0.094	3.919	0.000	0.185	0.555
ln_fvp_timesinceregimechange	-0.0074	0.039	-0.189	0.850	-0.084	0.069
fvp_demo	-0.2579	0.142	-1.817	0.069	-0.536	0.020
fvp_semi	0.0477	0.124	0.385	0.700	-0.195	0.290
fvp_prop_excluded	-0.0423	0.175	-0.242	0.809	-0.385	0.300
ln_fvp_population200	0.1682	0.044	3.844	0.000	0.082	0.254
ssp2_edu_sec_15_24_prop	0.3363	0.288	1.166	0.243	-0.229	0.901
ssp2_urban_share_iiasa	0.0030	0.004	0.839	0.401	-0.004	0.010

2.7.4 pr_fcast

Dep. Variable:	acled_dummy_pr	**No. Observations:**	14191
Model:	Logit	**Df Residuals:**	14158
Method:	MLE	**Df Model:**	32
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.4082
Time:	21:17:05	**Log-Likelihood:**	-5620.1
converged:	True	**LL-Null:**	-9495.8

	coef	std err	z	P>|z|	[0.025	0.975]
Intercept	-4.0665	0.436	-9.326	0.000	-4.921	-3.212
l2_acled_dummy_pr	0.5172	0.057	9.037	0.000	0.405	0.629
l3_acled_dummy_pr	0.3842	0.057	6.705	0.000	0.272	0.497
l4_acled_dummy_pr	0.3496	0.057	6.082	0.000	0.237	0.462
l5_acled_dummy_pr	0.2449	0.058	4.221	0.000	0.131	0.359
l6_acled_dummy_pr	0.3787	0.058	6.568	0.000	0.266	0.492
l7_acled_dummy_pr	0.2443	0.058	4.191	0.000	0.130	0.359
l8_acled_dummy_pr	0.2820	0.058	4.838	0.000	0.168	0.396
l9_acled_dummy_pr	0.2316	0.059	3.948	0.000	0.117	0.347
l10_acled_dummy_pr	0.1385	0.059	2.342	0.019	0.023	0.255
l11_acled_dummy_pr	0.4554	0.058	7.882	0.000	0.342	0.569
l12_acled_dummy_pr	0.3463	0.058	6.013	0.000	0.233	0.459
l1_ged_dummy_sb	-0.0260	0.102	-0.255	0.799	-0.226	0.174
l1_ged_dummy_ns	0.1286	0.121	1.066	0.287	-0.108	0.365
l1_ged_dummy_os	-0.0815	0.096	-0.852	0.394	-0.269	0.106
l1_acled_dummy_pr	0.7817	0.059	13.272	0.000	0.666	0.897
decay_12_cw_ged_dummy_sb_0	0.0279	0.110	0.255	0.799	-0.187	0.243
decay_12_cw_ged_dummy_ns_0	0.1348	0.115	1.171	0.241	-0.091	0.360
decay_12_cw_ged_dummy_os_0	0.1266	0.105	1.202	0.229	-0.080	0.333
decay_12_cw_acled_dummy_pr_0	0.6701	0.141	4.743	0.000	0.393	0.947
fvp_lngdpcap_nonoilrent	-0.1109	0.047	-2.371	0.018	-0.203	-0.019
fvp_lngdpcap_oilrent	-0.0034	0.012	-0.285	0.776	-0.027	0.020
fvp_grgdpcap_oilrent	-0.1446	0.071	-2.043	0.041	-0.283	-0.006
fvp_grgdpcap_nonoilrent	-0.1189	0.164	-0.727	0.467	-0.439	0.202
ln_fvp_timeindep	0.1308	0.070	1.876	0.061	-0.006	0.268
ln_fvp_timesincepreindepwar	-0.0517	0.059	-0.881	0.378	-0.167	0.063
ln_fvp_timesinceregimechange	-0.0079	0.028	-0.285	0.776	-0.062	0.047
fvp_demo	0.0708	0.095	0.747	0.455	-0.115	0.256
fvp_semi	-0.0125	0.086	-0.145	0.884	-0.181	0.156
fvp_prop_excluded	0.0843	0.117	0.722	0.470	-0.145	0.313
ln_fvp_population200	0.1615	0.023	6.971	0.000	0.116	0.207
ssp2_edu_sec_15_24_prop	0.9093	0.187	4.867	0.000	0.543	1.275
ssp2_urban_share_iiasa	0.0023	0.002	1.081	0.280	-0.002	0.006

2.7.5 sb_eval

Dep. Variable:	ged_dummy_sb	**No. Observations:**	11977
Model:	Logit	**Df Residuals:**	11944
Method:	MLE	**Df Model:**	32
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.6625
Time:	21:17:13	**Log-Likelihood:**	-1715.3
converged:	True	**LL-Null:**	-5082.6

	coef	std err	z	P>|z|	[0.025	0.975]
Intercept	-8.0236	0.958	-8.373	0.000	-9.902	-6.145
l2_ged_dummy_sb	0.5874	0.112	5.237	0.000	0.368	0.807
l3_ged_dummy_sb	0.5987	0.113	5.283	0.000	0.377	0.821
l4_ged_dummy_sb	0.2740	0.117	2.334	0.020	0.044	0.504
l5_ged_dummy_sb	0.1091	0.121	0.903	0.366	-0.128	0.346
l6_ged_dummy_sb	0.2031	0.122	1.669	0.095	-0.035	0.441
l7_ged_dummy_sb	0.1624	0.123	1.316	0.188	-0.079	0.404
l8_ged_dummy_sb	0.0731	0.126	0.582	0.561	-0.173	0.320
l9_ged_dummy_sb	0.0764	0.128	0.597	0.550	-0.174	0.327
l10_ged_dummy_sb	0.0715	0.128	0.558	0.577	-0.180	0.323
l11_ged_dummy_sb	0.2090	0.128	1.638	0.101	-0.041	0.459
l12_ged_dummy_sb	0.4285	0.122	3.522	0.000	0.190	0.667
l1_ged_dummy_sb	0.9860	0.114	8.683	0.000	0.763	1.209
l1_ged_dummy_ns	-0.1156	0.162	-0.714	0.475	-0.433	0.202
l1_ged_dummy_os	0.4687	0.129	3.630	0.000	0.216	0.722
l1_acled_dummy_pr	0.3864	0.125	3.089	0.002	0.141	0.632
decay_12_cw_ged_dummy_sb_0	2.8986	0.235	12.308	0.000	2.437	3.360
decay_12_cw_ged_dummy_ns_0	0.1703	0.179	0.953	0.340	-0.180	0.520
decay_12_cw_ged_dummy_os_0	0.5614	0.196	2.869	0.004	0.178	0.945
decay_12_cw_acled_dummy_pr_0	-0.2640	0.206	-1.281	0.200	-0.668	0.140
fvp_lngdpcap_nonoilrent	0.2718	0.111	2.450	0.014	0.054	0.489
fvp_lngdpcap_oilrent	0.0247	0.023	1.097	0.273	-0.019	0.069
fvp_grgdpcap_oilrent	-0.1202	0.106	-1.133	0.257	-0.328	0.088
fvp_grgdpcap_nonoilrent	-0.8819	0.372	-2.369	0.018	-1.612	-0.152
ln_fvp_timeindep	0.1880	0.131	1.439	0.150	-0.068	0.444
ln_fvp_timesincepreindepwar	-0.1638	0.113	-1.452	0.146	-0.385	0.057
ln_fvp_timesinceregimechange	-0.1057	0.056	-1.902	0.057	-0.215	0.003
fvp_demo	-0.3422	0.162	-2.112	0.035	-0.660	-0.025
fvp_semi	-0.1336	0.140	-0.953	0.341	-0.408	0.141
fvp_prop_excluded	-0.0943	0.213	-0.442	0.658	-0.512	0.324
ln_fvp_population200	0.1897	0.057	3.344	0.001	0.079	0.301
ssp2_edu_sec_15_24_prop	-1.2960	0.426	-3.041	0.002	-2.131	-0.461
ssp2_urban_share_iiasa	-0.0036	0.004	-0.838	0.402	-0.012	0.005

2.7.6 ns_eval

Dep. Variable:	ged_dummy_ns	**No. Observations:**	11977
Model:	Logit	**Df Residuals:**	11944
Method:	MLE	**Df Model:**	32
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.5817
Time:	21:17:13	**Log-Likelihood:**	-1390.3
converged:	True	**LL-Null:**	-3323.8

	coef	std err	z	P>|z|	[0.025	0.975]
Intercept	-8.9186	1.020	-8.741	0.000	-10.918	-6.919
l2_ged_dummy_ns	0.5339	0.115	4.641	0.000	0.308	0.759
l3_ged_dummy_ns	0.2811	0.116	2.432	0.015	0.055	0.508
l4_ged_dummy_ns	0.1811	0.117	1.546	0.122	-0.048	0.411
l5_ged_dummy_ns	0.1081	0.119	0.912	0.362	-0.124	0.341
l6_ged_dummy_ns	0.3577	0.118	3.024	0.002	0.126	0.589
l7_ged_dummy_ns	0.2357	0.119	1.973	0.048	0.002	0.470
l8_ged_dummy_ns	-0.0078	0.122	-0.064	0.949	-0.247	0.231
l9_ged_dummy_ns	0.1153	0.122	0.943	0.346	-0.124	0.355
l10_ged_dummy_ns	0.2671	0.122	2.189	0.029	0.028	0.506
l11_ged_dummy_ns	0.2881	0.122	2.355	0.019	0.048	0.528
l12_ged_dummy_ns	0.1050	0.121	0.864	0.387	-0.133	0.343
l1_ged_dummy_sb	0.0302	0.159	0.190	0.849	-0.281	0.341
l1_ged_dummy_ns	0.5874	0.119	4.936	0.000	0.354	0.821
l1_ged_dummy_os	-0.1022	0.143	-0.715	0.475	-0.383	0.178
l1_acled_dummy_pr	0.5677	0.142	4.009	0.000	0.290	0.845
decay_12_cw_ged_dummy_sb_0	0.3460	0.216	1.605	0.108	-0.077	0.769
decay_12_cw_ged_dummy_ns_0	3.4974	0.277	12.643	0.000	2.955	4.040
decay_12_cw_ged_dummy_os_0	0.5338	0.230	2.323	0.020	0.083	0.984
decay_12_cw_acled_dummy_pr_0	-0.8363	0.261	-3.203	0.001	-1.348	-0.325
fvp_lngdpcap_nonoilrent	0.1262	0.110	1.152	0.249	-0.088	0.341
fvp_lngdpcap_oilrent	0.0067	0.027	0.253	0.800	-0.045	0.059
fvp_grgdpcap_oilrent	-0.1615	0.132	-1.221	0.222	-0.421	0.098
fvp_grgdpcap_nonoilrent	-1.3558	0.372	-3.640	0.000	-2.086	-0.626
ln_fvp_timeindep	-0.0584	0.148	-0.394	0.694	-0.349	0.232
ln_fvp_timesincepreindepwar	0.0129	0.127	0.102	0.919	-0.235	0.261
ln_fvp_timesinceregimechange	-0.0364	0.061	-0.593	0.553	-0.157	0.084
fvp_demo	0.0056	0.189	0.029	0.976	-0.365	0.376
fvp_semi	0.0251	0.171	0.146	0.884	-0.311	0.361
fvp_prop_excluded	-0.2486	0.338	-0.736	0.462	-0.911	0.414
ln_fvp_population200	0.3181	0.073	4.374	0.000	0.176	0.461
ssp2_edu_sec_15_24_prop	-0.6340	0.408	-1.553	0.120	-1.434	0.166
ssp2_urban_share_iiasa	0.0041	0.005	0.829	0.407	-0.006	0.014

2.7.7 os_eval

Dep. Variable:	ged_dummy_os	**No. Observations:**	11977
Model:	Logit	**Df Residuals:**	11944
Method:	MLE	**Df Model:**	32
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.5782
Time:	21:17:13	**Log-Likelihood:**	-1988.6
converged:	True	**LL-Null:**	-4714.4

	coef	std err	z	P>|z|	[0.025	0.975]
Intercept	-3.6784	0.853	-4.313	0.000	-5.350	-2.007
l2_ged_dummy_os	0.4532	0.104	4.370	0.000	0.250	0.657
l3_ged_dummy_os	0.3930	0.105	3.753	0.000	0.188	0.598
l4_ged_dummy_os	0.3168	0.106	2.982	0.003	0.109	0.525
l5_ged_dummy_os	0.3134	0.108	2.911	0.004	0.102	0.524
l6_ged_dummy_os	0.1747	0.110	1.591	0.112	-0.041	0.390
l7_ged_dummy_os	-0.1151	0.114	-1.012	0.312	-0.338	0.108
l8_ged_dummy_os	0.2282	0.112	2.039	0.041	0.009	0.448
l9_ged_dummy_os	0.2323	0.112	2.065	0.039	0.012	0.453
l10_ged_dummy_os	0.1205	0.114	1.057	0.291	-0.103	0.344
l11_ged_dummy_os	-0.0068	0.115	-0.060	0.953	-0.232	0.218
l12_ged_dummy_os	0.1682	0.111	1.518	0.129	-0.049	0.385
l1_ged_dummy_sb	0.3828	0.126	3.049	0.002	0.137	0.629
l1_ged_dummy_ns	0.2284	0.143	1.602	0.109	-0.051	0.508
l1_ged_dummy_os	0.9444	0.105	8.997	0.000	0.739	1.150
l1_acled_dummy_pr	0.0531	0.110	0.480	0.631	-0.163	0.270
decay_12_cw_ged_dummy_sb_0	0.9239	0.176	5.252	0.000	0.579	1.269
decay_12_cw_ged_dummy_ns_0	0.2008	0.166	1.208	0.227	-0.125	0.527
decay_12_cw_ged_dummy_os_0	2.1764	0.219	9.931	0.000	1.747	2.606
decay_12_cw_acled_dummy_pr_0	0.3092	0.207	1.495	0.135	-0.096	0.714
fvp_lngdpcap_nonoilrent	-0.4046	0.101	-4.005	0.000	-0.603	-0.207
fvp_lngdpcap_oilrent	0.0561	0.021	2.610	0.009	0.014	0.098
fvp_grgdpcap_oilrent	-0.2172	0.109	-2.002	0.045	-0.430	-0.005
fvp_grgdpcap_nonoilrent	-0.0232	0.316	-0.073	0.942	-0.643	0.597
ln_fvp_timeindep	-0.4477	0.119	-3.760	0.000	-0.681	-0.214
ln_fvp_timesincepreindepwar	0.4218	0.105	4.017	0.000	0.216	0.628
ln_fvp_timesinceregimechange	0.0072	0.052	0.139	0.889	-0.094	0.109
fvp_demo	-0.3687	0.162	-2.277	0.023	-0.686	-0.051
fvp_semi	-0.0014	0.137	-0.010	0.992	-0.270	0.267
fvp_prop_excluded	-0.0243	0.189	-0.129	0.898	-0.395	0.346
ln_fvp_population200	0.1479	0.056	2.627	0.009	0.038	0.258
ssp2_edu_sec_15_24_prop	0.4625	0.360	1.283	0.199	-0.244	1.169
ssp2_urban_share_iiasa	0.0026	0.004	0.650	0.516	-0.005	0.011

2.7.8 pr_eval

Dep. Variable:	acled_dummy_pr	**No. Observations:**	11977
Model:	Logit	**Df Residuals:**	11944
Method:	MLE	**Df Model:**	32
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.3537
Time:	21:17:13	**Log-Likelihood:**	-4941.4
converged:	True	**LL-Null:**	-7645.3

	coef	std err	z	P>|z|	[0.025	0.975]
Intercept	-4.2193	0.480	-8.789	0.000	-5.160	-3.278
l2_acled_dummy_pr	0.4923	0.061	8.125	0.000	0.374	0.611
l3_acled_dummy_pr	0.3709	0.061	6.125	0.000	0.252	0.490
l4_acled_dummy_pr	0.3502	0.061	5.772	0.000	0.231	0.469
l5_acled_dummy_pr	0.2475	0.061	4.041	0.000	0.127	0.367
l6_acled_dummy_pr	0.3415	0.061	5.596	0.000	0.222	0.461
l7_acled_dummy_pr	0.2373	0.062	3.853	0.000	0.117	0.358
l8_acled_dummy_pr	0.2566	0.062	4.159	0.000	0.136	0.377
l9_acled_dummy_pr	0.1896	0.062	3.053	0.002	0.068	0.311
l10_acled_dummy_pr	0.1133	0.063	1.812	0.070	-0.009	0.236
l11_acled_dummy_pr	0.4232	0.061	6.927	0.000	0.303	0.543
l12_acled_dummy_pr	0.3226	0.061	5.297	0.000	0.203	0.442
l1_ged_dummy_sb	-0.0973	0.110	-0.888	0.375	-0.312	0.118
l1_ged_dummy_ns	0.1431	0.128	1.120	0.263	-0.107	0.393
l1_ged_dummy_os	-0.0683	0.102	-0.668	0.504	-0.269	0.132
l1_acled_dummy_pr	0.7705	0.062	12.334	0.000	0.648	0.893
decay_12_cw_ged_dummy_sb_0	0.0255	0.116	0.220	0.826	-0.202	0.252
decay_12_cw_ged_dummy_ns_0	0.0708	0.123	0.577	0.564	-0.170	0.311
decay_12_cw_ged_dummy_os_0	0.1432	0.111	1.292	0.196	-0.074	0.361
decay_12_cw_acled_dummy_pr_0	0.6483	0.148	4.394	0.000	0.359	0.937
fvp_lngdpcap_nonoilrent	-0.0921	0.052	-1.782	0.075	-0.193	0.009
fvp_lngdpcap_oilrent	-0.0079	0.013	-0.613	0.540	-0.033	0.017
fvp_grgdpcap_oilrent	-0.1188	0.072	-1.660	0.097	-0.259	0.021
fvp_grgdpcap_nonoilrent	-0.1135	0.177	-0.640	0.522	-0.461	0.234
ln_fvp_timeindep	0.1173	0.073	1.605	0.108	-0.026	0.260
ln_fvp_timesincepreindepwar	-0.0751	0.062	-1.216	0.224	-0.196	0.046
ln_fvp_timesinceregimechange	0.0206	0.035	0.596	0.551	-0.047	0.088
fvp_demo	0.1195	0.102	1.174	0.240	-0.080	0.319
fvp_semi	0.0073	0.092	0.079	0.937	-0.173	0.188
fvp_prop_excluded	0.0886	0.123	0.722	0.470	-0.152	0.329
ln_fvp_population200	0.1824	0.026	7.073	0.000	0.132	0.233
ssp2_edu_sec_15_24_prop	0.7833	0.200	3.920	0.000	0.392	1.175
ssp2_urban_share_iiasa	0.0022	0.002	0.983	0.325	-0.002	0.007

2.8 osa_cm_canon_base_logit

2.8.1 sb_fcast

Dep. Variable:	ged_dummy_sb	**No. Observations:**	4333
Model:	Logit	**Df Residuals:**	4302
Method:	MLE	**Df Model:**	30
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.6517
Time:	01:03:28	**Log-Likelihood:**	-970.75
converged:	True	**LL-Null:**	-2787.3

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
l2_ged_dummy_sb	0.6618	0.188	3.511	0.000	0.292	1.031
l3_ged_dummy_sb	0.7326	0.189	3.868	0.000	0.361	1.104
l4_ged_dummy_sb	-0.0821	0.185	-0.443	0.657	-0.445	0.281
l5_ged_dummy_sb	0.5115	0.188	2.722	0.006	0.143	0.880
l6_ged_dummy_sb	0.1594	0.191	0.835	0.404	-0.215	0.534
l7_ged_dummy_sb	-0.0292	0.191	-0.153	0.879	-0.403	0.345
l8_ged_dummy_sb	0.3428	0.196	1.753	0.080	-0.040	0.726
l9_ged_dummy_sb	0.1501	0.194	0.774	0.439	-0.230	0.530
l10_ged_dummy_sb	0.0222	0.194	0.115	0.909	-0.357	0.401
l11_ged_dummy_sb	0.1440	0.190	0.760	0.447	-0.227	0.516
l12_ged_dummy_sb	0.3065	0.187	1.638	0.101	-0.060	0.673
l1_ged_dummy_sb	0.3455	0.186	1.854	0.064	-0.020	0.711
l1_ged_dummy_ns	-0.0017	0.250	-0.007	0.995	-0.491	0.488
l1_ged_dummy_os	0.6688	0.198	3.379	0.001	0.281	1.057
decay_12_cw_ged_dummy_sb_0	2.9550	0.259	11.396	0.000	2.447	3.463
decay_12_cw_ged_dummy_ns_0	0.2591	0.241	1.076	0.282	-0.213	0.731
decay_12_cw_ged_dummy_os_0	0.6568	0.237	2.772	0.006	0.192	1.121
fvp_lngdpcap_nonoilrent	0.2900	0.129	2.240	0.025	0.036	0.544
fvp_lngdpcap_oilrent	0.0480	0.030	1.627	0.104	-0.010	0.106
fvp_grgdpcap_oilrent	-0.1039	0.177	-0.585	0.558	-0.452	0.244
fvp_grgdpcap_nonoilrent	-0.4491	0.549	-0.817	0.414	-1.526	0.628
ln_fvp_timeindep	-0.0954	0.169	-0.566	0.571	-0.426	0.235
ln_fvp_timesincepreindepwar	-0.0479	0.149	-0.322	0.748	-0.339	0.244
ln_fvp_timesinceregimechange	-0.1750	0.066	-2.645	0.008	-0.305	-0.045
fvp_demo	-0.2041	0.203	-1.003	0.316	-0.603	0.195
fvp_semi	-0.0318	0.177	-0.180	0.857	-0.378	0.314
fvp_prop_excluded	-0.3560	0.284	-1.256	0.209	-0.912	0.200
ln_fvp_population200	0.2217	0.062	3.560	0.000	0.100	0.344
ssp2_edu_sec_15_24_prop	-1.6901	0.518	-3.262	0.001	-2.706	-0.675
ssp2_urban_share_iiasa	-0.0039	0.006	-0.708	0.479	-0.015	0.007
Intercept	-5.4092	1.136	-4.763	0.000	-7.635	-3.183

2.8.2 ns_fcast

Dep. Variable:	ged_dummy_ns	**No. Observations:**	3144
Model:	Logit	**Df Residuals:**	3113
Method:	MLE	**Df Model:**	30
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.6402
Time:	00:57:45	**Log-Likelihood:**	-783.67
converged:	True	**LL-Null:**	-2177.8

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
l2_ged_dummy_ns	0.3294	0.204	1.615	0.106	-0.070	0.729
l3_ged_dummy_ns	0.4563	0.211	2.158	0.031	0.042	0.871
l4_ged_dummy_ns	-0.0519	0.202	-0.257	0.798	-0.449	0.345
l5_ged_dummy_ns	0.5420	0.202	2.686	0.007	0.146	0.937
l6_ged_dummy_ns	0.5146	0.208	2.471	0.013	0.106	0.923
l7_ged_dummy_ns	0.4644	0.215	2.159	0.031	0.043	0.886
l8_ged_dummy_ns	-0.1059	0.213	-0.496	0.620	-0.524	0.312
l9_ged_dummy_ns	0.1261	0.214	0.591	0.555	-0.292	0.545
l10_ged_dummy_ns	0.5426	0.212	2.558	0.011	0.127	0.958
l11_ged_dummy_ns	-0.0764	0.211	-0.363	0.717	-0.489	0.336
l12_ged_dummy_ns	0.1940	0.203	0.958	0.338	-0.203	0.591
l1_ged_dummy_sb	-0.1816	0.221	-0.820	0.412	-0.616	0.252
l1_ged_dummy_ns	0.5394	0.206	2.620	0.009	0.136	0.943
l1_ged_dummy_os	0.3557	0.206	1.723	0.085	-0.049	0.760
decay_12_cw_ged_dummy_sb_0	0.5271	0.281	1.879	0.060	-0.023	1.077
decay_12_cw_ged_dummy_ns_0	2.9568	0.289	10.244	0.000	2.391	3.523
decay_12_cw_ged_dummy_os_0	0.4852	0.284	1.710	0.087	-0.071	1.041
fvp_lngdpcap_nonoilrent	-0.0042	0.140	-0.030	0.976	-0.278	0.270
fvp_lngdpcap_oilrent	0.0136	0.034	0.398	0.691	-0.054	0.081
fvp_grgdpcap_oilrent	-0.3000	0.207	-1.451	0.147	-0.705	0.105
fvp_grgdpcap_nonoilrent	-1.9967	0.678	-2.945	0.003	-3.325	-0.668
ln_fvp_timeindep	0.0947	0.179	0.529	0.597	-0.256	0.446
ln_fvp_timesincepreindepwar	-0.0328	0.161	-0.203	0.839	-0.349	0.283
ln_fvp_timesinceregimechange	-0.0891	0.074	-1.209	0.227	-0.234	0.055
fvp_demo	-0.2870	0.241	-1.189	0.235	-0.760	0.186
fvp_semi	-0.1747	0.210	-0.831	0.406	-0.587	0.237
fvp_prop_excluded	-0.6142	0.354	-1.737	0.082	-1.307	0.079
ln_fvp_population200	0.3595	0.064	5.629	0.000	0.234	0.485
ssp2_edu_sec_15_24_prop	-0.4288	0.544	-0.789	0.430	-1.494	0.637
ssp2_urban_share_iiasa	0.0053	0.006	0.832	0.405	-0.007	0.018
Intercept	-6.3055	1.096	-5.755	0.000	-8.453	-4.158

2.8.3 os_fcast

Dep. Variable:	ged_dummy_os	**No. Observations:**	4117
Model:	Logit	**Df Residuals:**	4086
Method:	MLE	**Df Model:**	30
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.5808
Time:	00:57:50	**Log-Likelihood:**	-1134.6
converged:	True	**LL-Null:**	-2706.8

	coef	std err	z	P>|z|	[0.025	0.975]
l2_ged_dummy_os	0.4108	0.172	2.389	0.017	0.074	0.748
l3_ged_dummy_os	0.4156	0.168	2.475	0.013	0.086	0.745
l4_ged_dummy_os	0.7661	0.176	4.360	0.000	0.422	1.111
l5_ged_dummy_os	0.0038	0.171	0.022	0.982	-0.331	0.338
l6_ged_dummy_os	0.1085	0.170	0.637	0.524	-0.225	0.442
l7_ged_dummy_os	0.1225	0.165	0.744	0.457	-0.200	0.445
l8_ged_dummy_os	0.1857	0.170	1.091	0.275	-0.148	0.519
l9_ged_dummy_os	0.2211	0.165	1.343	0.179	-0.101	0.544
l10_ged_dummy_os	0.3012	0.175	1.726	0.084	-0.041	0.643
l11_ged_dummy_os	0.1261	0.167	0.755	0.450	-0.201	0.453
l12_ged_dummy_os	-0.0155	0.162	-0.095	0.924	-0.334	0.303
l1_ged_dummy_sb	0.5005	0.182	2.743	0.006	0.143	0.858
l1_ged_dummy_ns	0.0955	0.222	0.430	0.667	-0.339	0.530
l1_ged_dummy_os	0.6425	0.172	3.737	0.000	0.306	0.979
decay_12_cw_ged_dummy_sb_0	0.6863	0.210	3.272	0.001	0.275	1.097
decay_12_cw_ged_dummy_ns_0	0.3457	0.217	1.595	0.111	-0.079	0.770
decay_12_cw_ged_dummy_os_0	2.2307	0.240	9.294	0.000	1.760	2.701
fvp_lngdpcap_nonoilrent	-0.3664	0.107	-3.411	0.001	-0.577	-0.156
fvp_lngdpcap_oilrent	0.0451	0.027	1.673	0.094	-0.008	0.098
fvp_grgdpcap_oilrent	0.1507	0.155	0.975	0.330	-0.152	0.454
fvp_grgdpcap_nonoilrent	-0.9355	0.474	-1.975	0.048	-1.864	-0.007
ln_fvp_timeindep	-0.0739	0.147	-0.501	0.616	-0.363	0.215
ln_fvp_timesincepreindepwar	0.2163	0.128	1.688	0.091	-0.035	0.468
ln_fvp_timesinceregimechange	0.0560	0.059	0.941	0.347	-0.061	0.173
fvp_demo	-0.0835	0.196	-0.427	0.670	-0.467	0.300
fvp_semi	0.0202	0.173	0.117	0.907	-0.318	0.359
fvp_prop_excluded	0.1956	0.235	0.831	0.406	-0.266	0.657
ln_fvp_population200	0.2227	0.057	3.872	0.000	0.110	0.335
ssp2_edu_sec_15_24_prop	0.0107	0.406	0.026	0.979	-0.785	0.807
ssp2_urban_share_iiasa	0.0027	0.005	0.537	0.591	-0.007	0.013
Intercept	-2.6039	0.929	-2.802	0.005	-4.425	-0.783

2.8.4 sb_eval

Dep. Variable:	ged_dummy_sb	**No. Observations:**	3623
Model:	Logit	**Df Residuals:**	3592
Method:	MLE	**Df Model:**	30
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.6586
Time:	00:52:15	**Log-Likelihood:**	-811.35
converged:	True	**LL-Null:**	-2376.2

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
l2_ged_dummy_sb	0.7935	0.215	3.698	0.000	0.373	1.214
l3_ged_dummy_sb	0.5826	0.211	2.757	0.006	0.168	0.997
l4_ged_dummy_sb	0.0251	0.210	0.120	0.905	-0.386	0.436
l5_ged_dummy_sb	0.0117	0.212	0.055	0.956	-0.403	0.427
l6_ged_dummy_sb	0.1215	0.214	0.567	0.571	-0.298	0.541
l7_ged_dummy_sb	0.3606	0.226	1.593	0.111	-0.083	0.804
l8_ged_dummy_sb	-0.1388	0.219	-0.634	0.526	-0.568	0.290
l9_ged_dummy_sb	-0.0424	0.218	-0.195	0.845	-0.469	0.384
l10_ged_dummy_sb	-0.0227	0.220	-0.103	0.918	-0.454	0.409
l11_ged_dummy_sb	0.4994	0.216	2.313	0.021	0.076	0.923
l12_ged_dummy_sb	0.1672	0.206	0.811	0.417	-0.237	0.571
l1_ged_dummy_sb	0.6313	0.213	2.957	0.003	0.213	1.050
l1_ged_dummy_ns	-0.2691	0.274	-0.981	0.327	-0.807	0.269
l1_ged_dummy_os	0.1299	0.221	0.589	0.556	-0.303	0.563
decay_12_cw_ged_dummy_sb_0	3.0769	0.286	10.746	0.000	2.516	3.638
decay_12_cw_ged_dummy_ns_0	0.3609	0.264	1.368	0.171	-0.156	0.878
decay_12_cw_ged_dummy_os_0	1.0818	0.265	4.085	0.000	0.563	1.601
fvp_lngdpcap_nonoilrent	0.3266	0.154	2.115	0.034	0.024	0.629
fvp_lngdpcap_oilrent	0.0683	0.033	2.070	0.038	0.004	0.133
fvp_grgdpcap_oilrent	-0.0778	0.178	-0.436	0.663	-0.427	0.272
fvp_grgdpcap_nonoilrent	-1.2346	0.506	-2.439	0.015	-2.227	-0.242
ln_fvp_timeindep	0.1393	0.184	0.759	0.448	-0.220	0.499
ln_fvp_timesincepreindepwar	-0.2907	0.159	-1.830	0.067	-0.602	0.021
ln_fvp_timesinceregimechange	-0.1947	0.081	-2.414	0.016	-0.353	-0.037
fvp_demo	-0.5893	0.224	-2.635	0.008	-1.028	-0.151
fvp_semi	-0.5163	0.195	-2.642	0.008	-0.899	-0.133
fvp_prop_excluded	-0.2758	0.311	-0.888	0.375	-0.885	0.333
ln_fvp_population200	0.2612	0.072	3.645	0.000	0.121	0.402
ssp2_edu_sec_15_24_prop	-2.5914	0.607	-4.268	0.000	-3.781	-1.401
ssp2_urban_share_iiasa	-0.0068	0.006	-1.090	0.276	-0.019	0.005
Intercept	-5.2516	1.344	-3.909	0.000	-7.885	-2.618

2.8.5 ns_eval

Dep. Variable:	ged_dummy_ns	**No. Observations:**	2614
Model:	Logit	**Df Residuals:**	2583
Method:	MLE	**Df Model:**	30
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.6332
Time:	00:52:15	**Log-Likelihood:**	-660.17
converged:	True	**LL-Null:**	-1799.9

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
l2_ged_dummy_ns	0.3800	0.234	1.627	0.104	-0.078	0.838
l3_ged_dummy_ns	-0.0548	0.228	-0.241	0.810	-0.501	0.391
l4_ged_dummy_ns	0.2114	0.222	0.952	0.341	-0.224	0.647
l5_ged_dummy_ns	0.2903	0.213	1.363	0.173	-0.127	0.708
l6_ged_dummy_ns	0.0562	0.219	0.257	0.798	-0.373	0.486
l7_ged_dummy_ns	-0.0188	0.218	-0.086	0.932	-0.446	0.409
l8_ged_dummy_ns	0.0418	0.226	0.185	0.853	-0.401	0.485
l9_ged_dummy_ns	0.1830	0.225	0.813	0.416	-0.258	0.624
l10_ged_dummy_ns	0.5024	0.231	2.175	0.030	0.050	0.955
l11_ged_dummy_ns	-0.0311	0.223	-0.139	0.889	-0.469	0.407
l12_ged_dummy_ns	0.4685	0.219	2.138	0.033	0.039	0.898
l1_ged_dummy_sb	-0.0367	0.246	-0.150	0.881	-0.518	0.445
l1_ged_dummy_ns	0.8576	0.239	3.588	0.000	0.389	1.326
l1_ged_dummy_os	0.3982	0.227	1.754	0.079	-0.047	0.843
decay_12_cw_ged_dummy_sb_0	0.2840	0.309	0.918	0.359	-0.322	0.890
decay_12_cw_ged_dummy_ns_0	3.4239	0.333	10.290	0.000	2.772	4.076
decay_12_cw_ged_dummy_os_0	0.4345	0.304	1.430	0.153	-0.161	1.030
fvp_lngdpcap_nonoilrent	0.0758	0.155	0.490	0.624	-0.227	0.379
fvp_lngdpcap_oilrent	-0.0161	0.037	-0.431	0.667	-0.089	0.057
fvp_grgdpcap_oilrent	-0.2844	0.232	-1.225	0.221	-0.740	0.171
fvp_grgdpcap_nonoilrent	-1.8653	0.563	-3.312	0.001	-2.969	-0.761
ln_fvp_timeindep	-0.0305	0.185	-0.165	0.869	-0.393	0.332
ln_fvp_timesincepreindepwar	-0.0045	0.175	-0.026	0.979	-0.347	0.338
ln_fvp_timesinceregimechange	-0.1451	0.087	-1.672	0.095	-0.315	0.025
fvp_demo	-0.1367	0.257	-0.532	0.595	-0.640	0.367
fvp_semi	0.0094	0.223	0.042	0.966	-0.428	0.446
fvp_prop_excluded	-0.7026	0.387	-1.818	0.069	-1.460	0.055
ln_fvp_population200	0.4254	0.083	5.120	0.000	0.263	0.588
ssp2_edu_sec_15_24_prop	-0.8330	0.628	-1.326	0.185	-2.064	0.398
ssp2_urban_share_iiasa	0.0094	0.007	1.315	0.189	-0.005	0.023
Intercept	-7.2337	1.365	-5.298	0.000	-9.910	-4.558

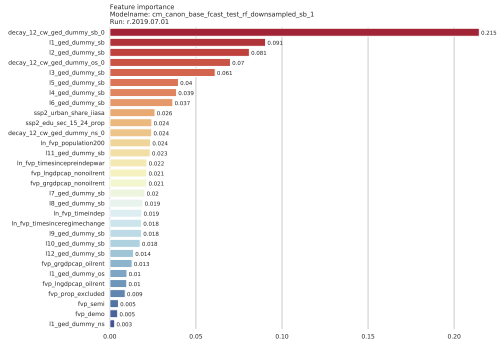
2.8.6 os_eval

Dep. Variable:	ged_dummy_os	**No. Observations:**	3440
Model:	Logit	**Df Residuals:**	3409
Method:	MLE	**Df Model:**	30
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.5824
Time:	00:52:21	**Log-Likelihood:**	-960.46
converged:	True	**LL-Null:**	-2300.2

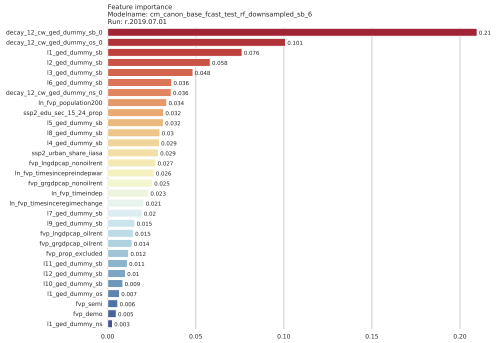
	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
l2_ged_dummy_os	0.5691	0.191	2.984	0.003	0.195	0.943
l3_ged_dummy_os	0.2108	0.183	1.155	0.248	-0.147	0.569
l4_ged_dummy_os	0.5145	0.183	2.818	0.005	0.157	0.872
l5_ged_dummy_os	-0.0603	0.186	-0.325	0.745	-0.425	0.304
l6_ged_dummy_os	-0.0700	0.184	-0.381	0.703	-0.430	0.290
l7_ged_dummy_os	0.0961	0.178	0.540	0.589	-0.253	0.445
l8_ged_dummy_os	0.4014	0.189	2.129	0.033	0.032	0.771
l9_ged_dummy_os	0.4462	0.187	2.384	0.017	0.079	0.813
l10_ged_dummy_os	-0.1948	0.188	-1.035	0.300	-0.564	0.174
l11_ged_dummy_os	0.0756	0.183	0.413	0.680	-0.283	0.435
l12_ged_dummy_os	0.3244	0.184	1.760	0.078	-0.037	0.686
l1_ged_dummy_sb	0.2834	0.207	1.370	0.171	-0.122	0.689
l1_ged_dummy_ns	0.1545	0.249	0.620	0.535	-0.334	0.643
l1_ged_dummy_os	0.6661	0.190	3.513	0.000	0.294	1.038
decay_12_cw_ged_dummy_sb_0	0.8636	0.235	3.681	0.000	0.404	1.323
decay_12_cw_ged_dummy_ns_0	0.3798	0.238	1.597	0.110	-0.086	0.846
decay_12_cw_ged_dummy_os_0	2.5034	0.262	9.554	0.000	1.990	3.017
fvp_lngdpcap_nonoilrent	-0.4015	0.132	-3.050	0.002	-0.660	-0.144
fvp_lngdpcap_oilrent	0.0626	0.030	2.095	0.036	0.004	0.121
fvp_grgdpcap_oilrent	-0.0181	0.161	-0.113	0.910	-0.334	0.297
fvp_grgdpcap_nonoilrent	-0.9770	0.613	-1.595	0.111	-2.178	0.224
ln_fvp_timeindep	0.0362	0.161	0.226	0.821	-0.279	0.351
ln_fvp_timesincepreindepwar	0.0676	0.143	0.471	0.638	-0.214	0.349
ln_fvp_timesinceregimechange	-0.0151	0.072	-0.210	0.834	-0.156	0.126
fvp_demo	-0.1047	0.210	-0.498	0.619	-0.517	0.307
fvp_semi	-0.0142	0.179	-0.079	0.937	-0.364	0.336
fvp_prop_excluded	0.2913	0.261	1.117	0.264	-0.220	0.802
ln_fvp_population200	0.1675	0.066	2.538	0.011	0.038	0.297
ssp2_edu_sec_15_24_prop	0.1675	0.493	0.340	0.734	-0.800	1.135
ssp2_urban_share_iiasa	-0.0030	0.005	-0.537	0.591	-0.014	0.008
Intercept	-1.4054	1.097	-1.281	0.200	-3.556	0.746

2.9 osa_cm_canon_base_rf

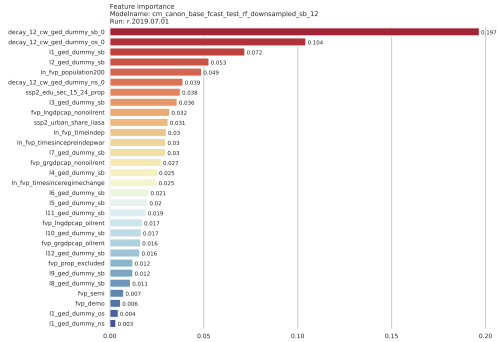
2.9.1 sb_fcast



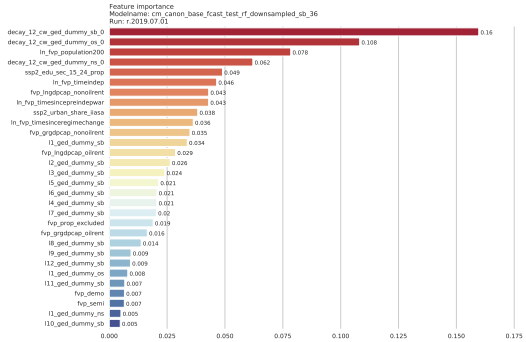
(a) 1 month



(b) 6 months

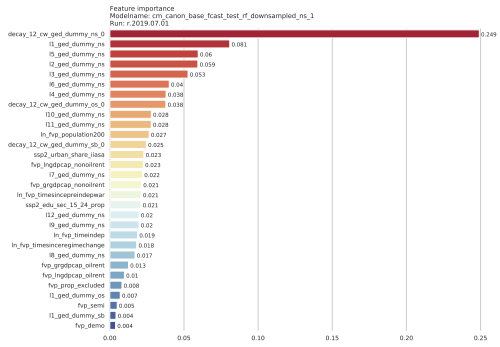


(c) 12 months

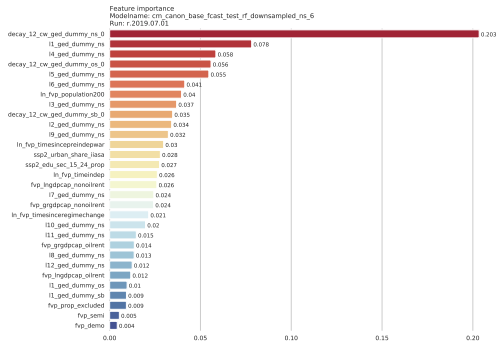


(d) 36 months

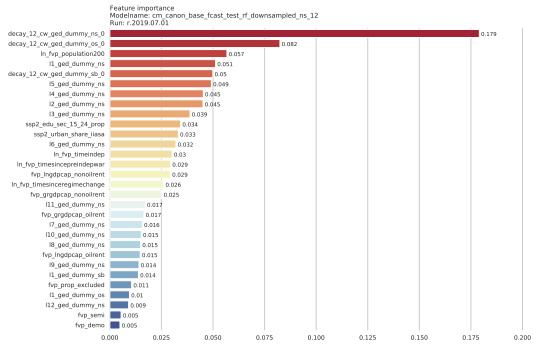
2.9.2 ns_fcast



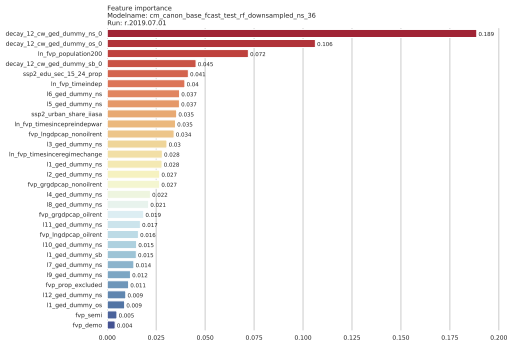
(a) 1 month



(b) 6 months

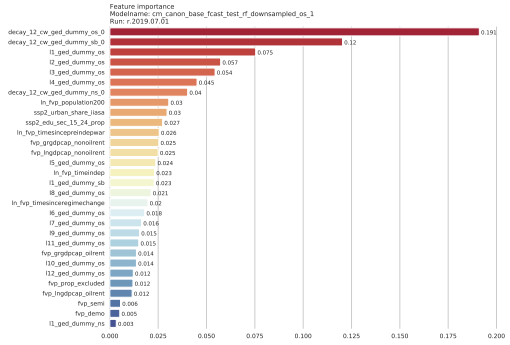


(c) 12 months

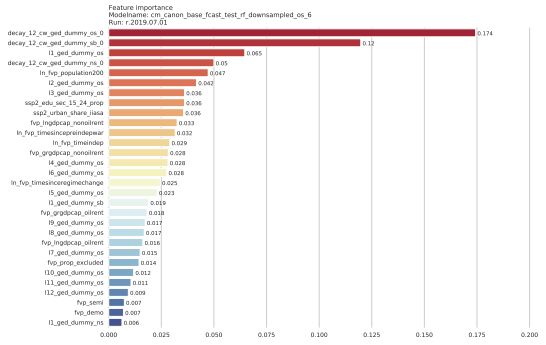


(d) 36 months

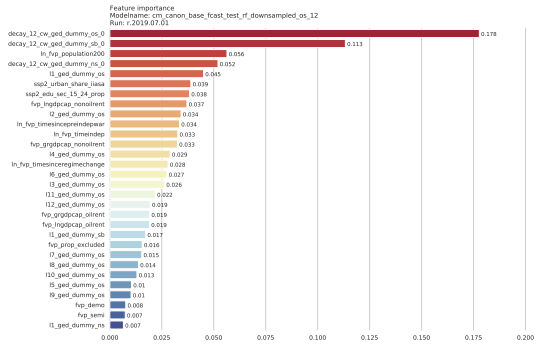
2.9.3 os_fcast



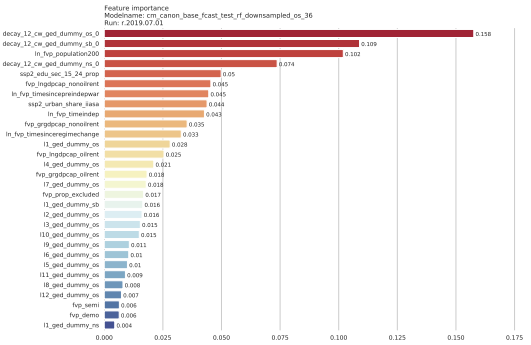
(a) 1 month



(b) 6 months

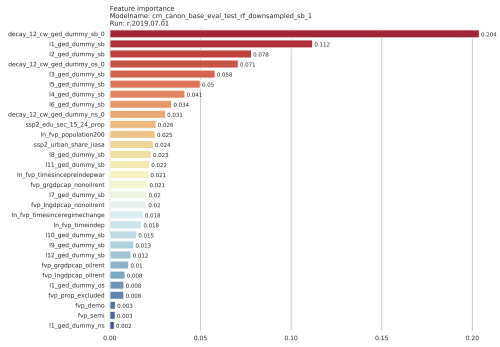


(c) 12 months

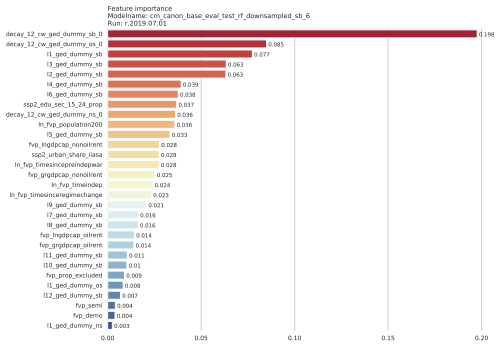


(d) 36 months

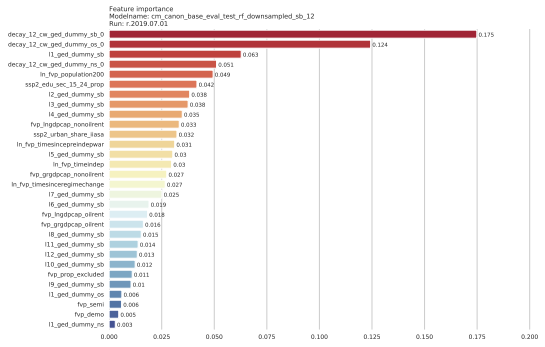
2.9.4 sb_eval



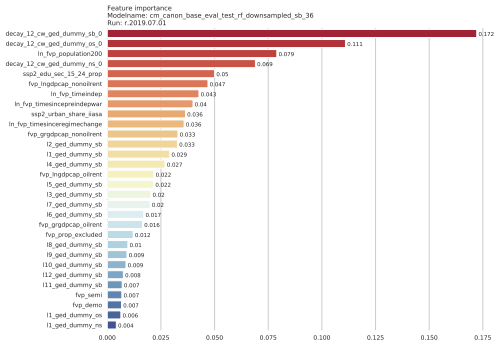
(a) 1 month



(b) 6 months

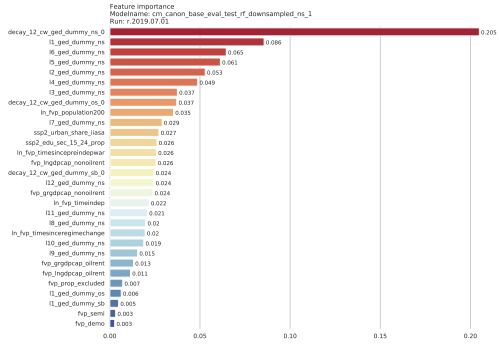


(c) 12 months

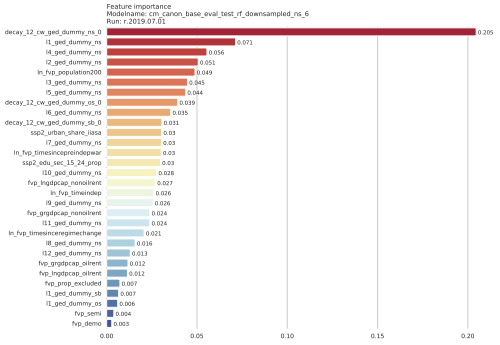


(d) 36 months

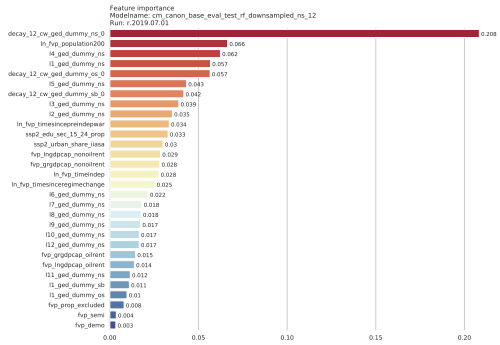
2.9.5 ns_eval



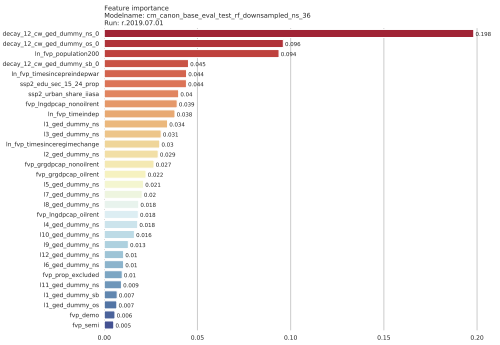
(a) 1 month



(b) 6 months

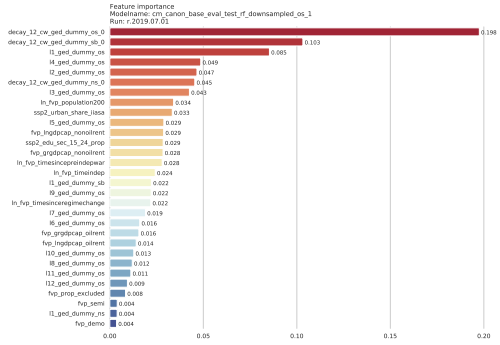


(c) 12 months

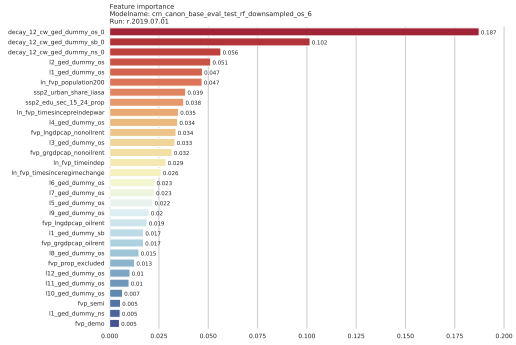


(d) 36 months

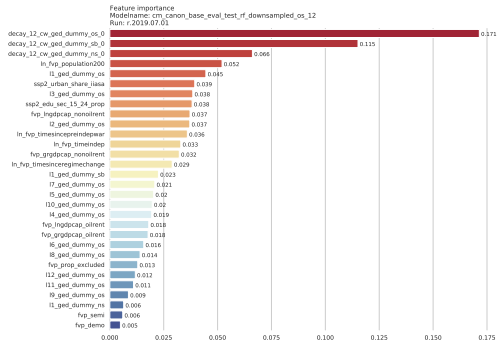
2.9.6 os_eval



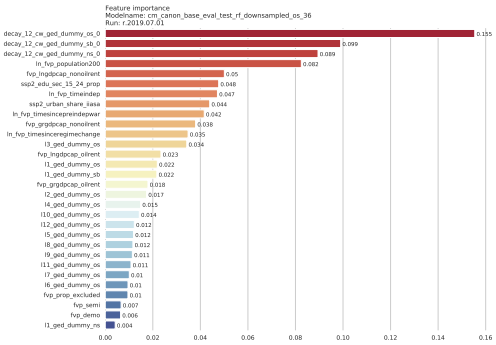
(a) 1 month



(b) 6 months



(c) 12 months



(d) 36 months

2.10 osa_cm_acled_base_logit

2.10.1 sb_fcast

Dep. Variable:	ged_dummy_sb	**No. Observations:**	3521
Model:	Logit	**Df Residuals:**	3488
Method:	MLE	**Df Model:**	32
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.6695
Time:	00:46:46	**Log-Likelihood:**	-741.93
converged:	True	**LL-Null:**	-2244.8

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
l2_ged_dummy_sb	0.7562	0.218	3.464	0.001	0.328	1.184
l3_ged_dummy_sb	0.0986	0.214	0.461	0.645	-0.320	0.518
l4_ged_dummy_sb	-0.0033	0.213	-0.016	0.988	-0.420	0.414
l5_ged_dummy_sb	0.5961	0.223	2.670	0.008	0.158	1.034
l6_ged_dummy_sb	0.5734	0.236	2.430	0.015	0.111	1.036
l7_ged_dummy_sb	0.1515	0.227	0.667	0.505	-0.294	0.597
l8_ged_dummy_sb	0.0435	0.227	0.192	0.848	-0.401	0.488
l9_ged_dummy_sb	0.3505	0.231	1.518	0.129	-0.102	0.803
l10_ged_dummy_sb	-0.1507	0.225	-0.668	0.504	-0.593	0.291
l11_ged_dummy_sb	0.6781	0.217	3.119	0.002	0.252	1.104
l12_ged_dummy_sb	-0.0562	0.218	-0.257	0.797	-0.484	0.372
l1_ged_dummy_sb	0.5621	0.217	2.589	0.010	0.136	0.988
l1_ged_dummy_ns	0.2883	0.299	0.963	0.335	-0.298	0.875
l1_ged_dummy_os	0.0717	0.227	0.315	0.753	-0.374	0.518
l1_acled_dummy_pr	0.1092	0.192	0.567	0.570	-0.268	0.486
decay_12_cw_ged_dummy_sb_0	2.8370	0.286	9.920	0.000	2.276	3.397
decay_12_cw_ged_dummy_ns_0	0.5087	0.285	1.787	0.074	-0.049	1.067
decay_12_cw_ged_dummy_os_0	0.5255	0.276	1.904	0.057	-0.015	1.066
decay_12_cw_acled_dummy_pr_0	-0.1763	0.318	-0.555	0.579	-0.799	0.446
fvp_lngdpcap_nonoilrent	0.0541	0.154	0.351	0.726	-0.248	0.357
fvp_lngdpcap_oilrent	0.0722	0.033	2.214	0.027	0.008	0.136
fvp_grgdpcap_oilrent	-0.2603	0.165	-1.580	0.114	-0.583	0.063
fvp_grgdpcap_nonoilrent	-0.5692	0.563	-1.012	0.312	-1.672	0.534
ln_fvp_timeindep	0.2860	0.221	1.296	0.195	-0.147	0.719
ln_fvp_timesincepreindepwar	-0.3120	0.184	-1.691	0.091	-0.674	0.050
ln_fvp_timesinceregimechange	-0.1701	0.074	-2.313	0.021	-0.314	-0.026
fvp_demo	-0.1985	0.247	-0.804	0.421	-0.682	0.285
fvp_semi	-0.0687	0.223	-0.308	0.758	-0.507	0.369
fvp_prop_excluded	0.0104	0.346	0.030	0.976	-0.668	0.689
ln_fvp_population200	0.1361	0.073	1.855	0.064	-0.008	0.280
ssp2_edu_sec_15_24_prop	-1.9145	0.595	-3.217	0.001	-3.081	-0.748
ssp2_urban_share_iiasa	0.0015	0.006	0.236	0.814	-0.011	0.014
Intercept	-3.1077	1.316	-2.361	0.018	-5.687	-0.528

2.10.2 ns_fcast

Dep. Variable:	ged_dummy_ns	**No. Observations:**	2576
Model:	Logit	**Df Residuals:**	2543
Method:	MLE	**Df Model:**	32
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.6539
Time:	00:41:23	**Log-Likelihood:**	-617.95
converged:	True	**LL-Null:**	-1785.5

	coef	std err	z	P>|z|	[0.025	0.975]
l2_ged_dummy_ns	0.3004	0.226	1.330	0.184	-0.142	0.743
l3_ged_dummy_ns	0.1295	0.224	0.580	0.562	-0.309	0.568
l4_ged_dummy_ns	0.2622	0.220	1.191	0.234	-0.169	0.694
l5_ged_dummy_ns	0.4195	0.222	1.892	0.059	-0.015	0.854
l6_ged_dummy_ns	0.1118	0.220	0.509	0.611	-0.319	0.543
l7_ged_dummy_ns	0.0258	0.230	0.112	0.911	-0.425	0.477
l8_ged_dummy_ns	0.3090	0.232	1.332	0.183	-0.146	0.764
l9_ged_dummy_ns	0.2053	0.235	0.874	0.382	-0.255	0.666
l10_ged_dummy_ns	0.3771	0.231	1.631	0.103	-0.076	0.830
l11_ged_dummy_ns	-0.0126	0.232	-0.054	0.957	-0.467	0.441
l12_ged_dummy_ns	0.3245	0.222	1.461	0.144	-0.111	0.760
l1_ged_dummy_sb	-0.1733	0.253	-0.685	0.493	-0.669	0.323
l1_ged_dummy_ns	0.8941	0.231	3.876	0.000	0.442	1.346
l1_ged_dummy_os	0.3582	0.233	1.538	0.124	-0.098	0.815
l1_acled_dummy_pr	0.5758	0.211	2.732	0.006	0.163	0.989
decay_12_cw_ged_dummy_sb_0	0.6179	0.334	1.849	0.065	-0.037	1.273
decay_12_cw_ged_dummy_ns_0	2.9236	0.330	8.871	0.000	2.278	3.570
decay_12_cw_ged_dummy_os_0	0.6483	0.329	1.969	0.049	0.003	1.294
decay_12_cw_acled_dummy_pr_0	-0.7193	0.384	-1.875	0.061	-1.471	0.033
fvp_lngdpcap_nonoilrent	0.1413	0.155	0.912	0.362	-0.162	0.445
fvp_lngdpcap_oilrent	0.0039	0.039	0.098	0.922	-0.073	0.081
fvp_grgdpcap_oilrent	-0.0400	0.221	-0.181	0.856	-0.474	0.394
fvp_grgdpcap_nonoilrent	-0.9508	0.530	-1.795	0.073	-1.989	0.087
ln_fvp_timeindep	-0.2688	0.229	-1.174	0.241	-0.718	0.180
ln_fvp_timesincepreindepwar	0.1539	0.195	0.788	0.430	-0.229	0.537
ln_fvp_timesinceregimechange	-0.0809	0.081	-1.001	0.317	-0.239	0.077
fvp_demo	0.3713	0.289	1.286	0.198	-0.195	0.937
fvp_semi	0.5019	0.265	1.892	0.058	-0.018	1.022
fvp_prop_excluded	-0.6923	0.452	-1.531	0.126	-1.578	0.194
ln_fvp_population200	0.3394	0.073	4.624	0.000	0.196	0.483
ssp2_edu_sec_15_24_prop	-0.8866	0.590	-1.502	0.133	-2.043	0.270
ssp2_urban_share_iiasa	0.0084	0.007	1.135	0.256	-0.006	0.023
Intercept	-7.0591	1.247	-5.661	0.000	-9.503	-4.615

2.10.3 os_fcast

Dep. Variable:	ged_dummy_os	**No. Observations:**	3303
Model:	Logit	**Df Residuals:**	3270
Method:	MLE	**Df Model:**	32
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.5983
Time:	00:41:24	**Log-Likelihood:**	-870.20
converged:	True	**LL-Null:**	-2166.1

	coef	std err	z	P>|z|	[0.025	0.975]
l2_ged_dummy_os	0.4840	0.194	2.492	0.013	0.103	0.865
l3_ged_dummy_os	0.1094	0.190	0.577	0.564	-0.262	0.481
l4_ged_dummy_os	0.2795	0.190	1.472	0.141	-0.093	0.652
l5_ged_dummy_os	-0.0890	0.194	-0.458	0.647	-0.470	0.292
l6_ged_dummy_os	0.0844	0.197	0.429	0.668	-0.301	0.470
l7_ged_dummy_os	0.1914	0.201	0.952	0.341	-0.203	0.585
l8_ged_dummy_os	0.4201	0.199	2.114	0.035	0.031	0.810
l9_ged_dummy_os	0.4344	0.201	2.159	0.031	0.040	0.829
l10_ged_dummy_os	0.0866	0.201	0.431	0.666	-0.307	0.480
l11_ged_dummy_os	0.0239	0.203	0.118	0.906	-0.374	0.422
l12_ged_dummy_os	0.0998	0.199	0.502	0.615	-0.290	0.489
l1_ged_dummy_sb	-0.0601	0.210	-0.286	0.775	-0.472	0.352
l1_ged_dummy_ns	0.3217	0.252	1.278	0.201	-0.172	0.815
l1_ged_dummy_os	0.8302	0.196	4.226	0.000	0.445	1.215
l1_acled_dummy_pr	-0.0948	0.168	-0.566	0.571	-0.423	0.234
decay_12_cw_ged_dummy_sb_0	1.4350	0.239	6.009	0.000	0.967	1.903
decay_12_cw_ged_dummy_ns_0	0.3353	0.244	1.372	0.170	-0.144	0.814
decay_12_cw_ged_dummy_os_0	1.9652	0.261	7.523	0.000	1.453	2.477
decay_12_cw_acled_dummy_pr_0	0.6627	0.315	2.104	0.035	0.045	1.280
fvp_lngdpcap_nonoilrent	-0.3750	0.126	-2.980	0.003	-0.622	-0.128
fvp_lngdpcap_oilrent	0.0703	0.031	2.287	0.022	0.010	0.130
fvp_grgdpcap_oilrent	-0.2725	0.181	-1.505	0.132	-0.627	0.082
fvp_grgdpcap_nonoilrent	-0.3951	0.551	-0.717	0.474	-1.476	0.686
ln_fvp_timeindep	-0.1113	0.185	-0.602	0.547	-0.474	0.251
ln_fvp_timesincepreindepwar	0.2060	0.160	1.286	0.198	-0.108	0.520
ln_fvp_timesinceregimechange	-0.0256	0.067	-0.383	0.702	-0.157	0.106
fvp_demo	-0.0186	0.243	-0.077	0.939	-0.496	0.458
fvp_semi	0.2041	0.216	0.944	0.345	-0.220	0.628
fvp_prop_excluded	0.4042	0.287	1.408	0.159	-0.158	0.967
ln_fvp_population200	0.2563	0.070	3.680	0.000	0.120	0.393
ssp2_edu_sec_15_24_prop	0.0064	0.464	0.014	0.989	-0.903	0.916
ssp2_urban_share_iiasa	0.0083	0.006	1.453	0.146	-0.003	0.020
Intercept	-3.3890	1.089	-3.113	0.002	-5.523	-1.255

2.10.4 pr_fcast

Dep. Variable:	acled_dummy_pr	**No. Observations:**	6395
Model:	Logit	**Df Residuals:**	6362
Method:	MLE	**Df Model:**	32
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.3485
Time:	00:46:46	**Log-Likelihood:**	-1644.8
converged:	True	**LL-Null:**	-2524.8

	coef	std err	z	P>|z|	[0.025	0.975]
l2_acled_dummy_pr	0.4221	0.122	3.471	0.001	0.184	0.660
l3_acled_dummy_pr	0.2699	0.120	2.246	0.025	0.034	0.505
l4_acled_dummy_pr	0.2224	0.120	1.848	0.065	-0.013	0.458
l5_acled_dummy_pr	0.4388	0.119	3.673	0.000	0.205	0.673
l6_acled_dummy_pr	0.2411	0.120	2.008	0.045	0.006	0.476
l7_acled_dummy_pr	0.1649	0.120	1.375	0.169	-0.070	0.400
l8_acled_dummy_pr	0.2496	0.122	2.046	0.041	0.010	0.489
l9_acled_dummy_pr	-0.1934	0.119	-1.632	0.103	-0.426	0.039
l10_acled_dummy_pr	0.4324	0.119	3.630	0.000	0.199	0.666
l11_acled_dummy_pr	0.3873	0.121	3.197	0.001	0.150	0.625
l12_acled_dummy_pr	0.4877	0.123	3.957	0.000	0.246	0.729
l1_ged_dummy_sb	0.1085	0.200	0.542	0.588	-0.284	0.501
l1_ged_dummy_ns	0.2956	0.260	1.138	0.255	-0.214	0.805
l1_ged_dummy_os	0.2029	0.203	1.001	0.317	-0.194	0.600
l1_acled_dummy_pr	0.5665	0.125	4.548	0.000	0.322	0.811
decay_12_cw_ged_dummy_sb_0	-0.2149	0.204	-1.053	0.293	-0.615	0.185
decay_12_cw_ged_dummy_ns_0	-0.2989	0.228	-1.313	0.189	-0.745	0.147
decay_12_cw_ged_dummy_os_0	0.3347	0.204	1.641	0.101	-0.065	0.735
decay_12_cw_acled_dummy_pr_0	1.0235	0.214	4.780	0.000	0.604	1.443
fvp_lngdpcap_nonoilrent	-0.1897	0.091	-2.084	0.037	-0.368	-0.011
fvp_lngdpcap_oilrent	-0.0114	0.022	-0.512	0.609	-0.055	0.032
fvp_grgdpcap_oilrent	-0.1064	0.111	-0.959	0.338	-0.324	0.111
fvp_grgdpcap_nonoilrent	0.3143	0.303	1.037	0.300	-0.280	0.908
ln_fvp_timeindep	0.1995	0.130	1.536	0.124	-0.055	0.454
ln_fvp_timesincepreindepwar	-0.1212	0.108	-1.118	0.264	-0.334	0.091
ln_fvp_timesinceregimechange	0.0140	0.055	0.255	0.799	-0.093	0.121
fvp_demo	0.1755	0.167	1.051	0.293	-0.152	0.503
fvp_semi	0.2773	0.151	1.837	0.066	-0.019	0.573
fvp_prop_excluded	0.4345	0.221	1.968	0.049	0.002	0.867
ln_fvp_population200	0.2319	0.044	5.321	0.000	0.146	0.317
ssp2_edu_sec_15_24_prop	1.4490	0.373	3.887	0.000	0.718	2.180
ssp2_urban_share_iiasa	-7.897e-05	0.004	-0.020	0.984	-0.008	0.008
Intercept	-2.0508	0.853	-2.404	0.016	-3.723	-0.379

2.10.5 sb_eval

Dep. Variable:	ged_dummy_sb	**No. Observations:**	2812
Model:	Logit	**Df Residuals:**	2779
Method:	MLE	**Df Model:**	32
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.6906
Time:	00:30:12	**Log-Likelihood:**	-568.53
converged:	True	**LL-Null:**	-1837.2

	coef	std err	z	P>|z|	[0.025	0.975]
l2_ged_dummy_sb	-0.0074	0.250	-0.030	0.976	-0.498	0.483
l3_ged_dummy_sb	0.2258	0.257	0.880	0.379	-0.277	0.729
l4_ged_dummy_sb	0.6439	0.272	2.365	0.018	0.110	1.177
l5_ged_dummy_sb	0.5087	0.272	1.870	0.061	-0.024	1.042
l6_ged_dummy_sb	0.2128	0.270	0.787	0.431	-0.317	0.742
l7_ged_dummy_sb	-0.1971	0.274	-0.718	0.473	-0.735	0.341
l8_ged_dummy_sb	0.1407	0.270	0.522	0.602	-0.388	0.669
l9_ged_dummy_sb	0.0162	0.263	0.062	0.951	-0.499	0.531
l10_ged_dummy_sb	0.0855	0.267	0.320	0.749	-0.437	0.608
l11_ged_dummy_sb	0.5027	0.259	1.939	0.053	-0.006	1.011
l12_ged_dummy_sb	0.0139	0.248	0.056	0.955	-0.471	0.499
l1_ged_dummy_sb	0.9325	0.264	3.535	0.000	0.416	1.450
l1_ged_dummy_ns	-0.5903	0.342	-1.726	0.084	-1.261	0.080
l1_ged_dummy_os	0.7370	0.279	2.642	0.008	0.190	1.284
l1_acled_dummy_pr	0.2274	0.219	1.037	0.300	-0.202	0.657
decay_12_cw_ged_dummy_sb_0	3.0959	0.335	9.236	0.000	2.439	3.753
decay_12_cw_ged_dummy_ns_0	0.9269	0.345	2.687	0.007	0.251	1.603
decay_12_cw_ged_dummy_os_0	0.8069	0.304	2.654	0.008	0.211	1.403
decay_12_cw_acled_dummy_pr_0	-0.3212	0.349	-0.920	0.358	-1.006	0.363
fvp_lngdpcap_nonoilrent	0.1278	0.191	0.671	0.502	-0.246	0.501
fvp_lngdpcap_oilrent	0.0644	0.038	1.691	0.091	-0.010	0.139
fvp_grgdpcap_oilrent	-0.3977	0.182	-2.191	0.028	-0.754	-0.042
fvp_grgdpcap_nonoilrent	-2.8905	0.815	-3.544	0.000	-4.489	-1.292
ln_fvp_timeindep	0.3938	0.252	1.562	0.118	-0.100	0.888
ln_fvp_timesincepreindepwar	-0.3897	0.213	-1.827	0.068	-0.808	0.028
ln_fvp_timesinceregimechange	-0.1720	0.095	-1.817	0.069	-0.358	0.014
fvp_demo	-0.2274	0.278	-0.819	0.413	-0.772	0.317
fvp_semi	-0.1704	0.248	-0.686	0.493	-0.657	0.317
fvp_prop_excluded	-0.0644	0.416	-0.155	0.877	-0.880	0.751
ln_fvp_population200	0.1457	0.087	1.668	0.095	-0.026	0.317
ssp2_edu_sec_15_24_prop	-1.9475	0.726	-2.683	0.007	-3.370	-0.525
ssp2_urban_share_iiasa	-0.0047	0.007	-0.659	0.510	-0.019	0.009
Intercept	-3.6310	1.620	-2.241	0.025	-6.807	-0.455

2.10.6 ns_eval

Dep. Variable:	ged_dummy_ns	**No. Observations:**	2047
Model:	Logit	**Df Residuals:**	2014
Method:	MLE	**Df Model:**	32
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.6720
Time:	00:24:26	**Log-Likelihood:**	-463.63
converged:	True	**LL-Null:**	-1413.6

	coef	std err	z	P>|z|	[0.025	0.975]
l2_ged_dummy_ns	0.8629	0.282	3.063	0.002	0.311	1.415
l3_ged_dummy_ns	0.0841	0.266	0.316	0.752	-0.437	0.605
l4_ged_dummy_ns	0.1792	0.265	0.677	0.499	-0.340	0.698
l5_ged_dummy_ns	-0.1869	0.264	-0.708	0.479	-0.705	0.331
l6_ged_dummy_ns	0.2353	0.265	0.888	0.375	-0.284	0.755
l7_ged_dummy_ns	0.3372	0.281	1.198	0.231	-0.214	0.889
l8_ged_dummy_ns	0.3177	0.276	1.151	0.250	-0.223	0.859
l9_ged_dummy_ns	0.3978	0.282	1.412	0.158	-0.154	0.950
l10_ged_dummy_ns	0.0750	0.273	0.275	0.784	-0.460	0.610
l11_ged_dummy_ns	-0.0596	0.273	-0.218	0.827	-0.595	0.476
l12_ged_dummy_ns	0.3386	0.269	1.259	0.208	-0.189	0.866
l1_ged_dummy_sb	-0.1123	0.294	-0.382	0.702	-0.688	0.464
l1_ged_dummy_ns	0.7543	0.278	2.711	0.007	0.209	1.300
l1_ged_dummy_os	0.2712	0.271	0.999	0.318	-0.261	0.803
l1_acled_dummy_pr	0.5977	0.243	2.462	0.014	0.122	1.074
decay_12_cw_ged_dummy_sb_0	0.7350	0.365	2.016	0.044	0.020	1.450
decay_12_cw_ged_dummy_ns_0	3.1063	0.389	7.989	0.000	2.344	3.868
decay_12_cw_ged_dummy_os_0	0.2467	0.358	0.689	0.491	-0.455	0.949
decay_12_cw_acled_dummy_pr_0	-0.7132	0.415	-1.720	0.085	-1.526	0.100
fvp_lngdpcap_nonoilrent	0.3071	0.198	1.551	0.121	-0.081	0.695
fvp_lngdpcap_oilrent	-0.0097	0.044	-0.220	0.825	-0.096	0.077
fvp_grgdpcap_oilrent	-0.0734	0.230	-0.319	0.749	-0.524	0.377
fvp_grgdpcap_nonoilrent	-1.7621	0.649	-2.715	0.007	-3.034	-0.490
ln_fvp_timeindep	-0.5128	0.244	-2.103	0.035	-0.991	-0.035
ln_fvp_timesincepreindepwar	0.3871	0.224	1.726	0.084	-0.053	0.827
ln_fvp_timesinceregimechange	-0.1514	0.111	-1.365	0.172	-0.369	0.066
fvp_demo	0.1473	0.360	0.410	0.682	-0.557	0.852
fvp_semi	0.2789	0.319	0.874	0.382	-0.346	0.904
fvp_prop_excluded	-0.4845	0.507	-0.956	0.339	-1.478	0.509
ln_fvp_population200	0.6384	0.116	5.499	0.000	0.411	0.866
ssp2_edu_sec_15_24_prop	-1.4047	0.738	-1.903	0.057	-2.852	0.042
ssp2_urban_share_iiasa	0.0033	0.008	0.394	0.694	-0.013	0.020
Intercept	-10.4842	1.754	-5.979	0.000	-13.921	-7.047

2.10.7 os_eval

Dep. Variable:	ged_dummy_os	**No. Observations:**	2626
Model:	Logit	**Df Residuals:**	2593
Method:	MLE	**Df Model:**	32
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.5991
Time:	00:29:51	**Log-Likelihood:**	-705.42
converged:	True	**LL-Null:**	-1759.6

	coef	std err	z	P>|z|	[0.025	0.975]
l2_ged_dummy_os	0.7603	0.219	3.477	0.001	0.332	1.189
l3_ged_dummy_os	0.3237	0.209	1.552	0.121	-0.085	0.732
l4_ged_dummy_os	0.3253	0.214	1.518	0.129	-0.095	0.745
l5_ged_dummy_os	0.0755	0.214	0.352	0.725	-0.344	0.495
l6_ged_dummy_os	0.0638	0.215	0.296	0.767	-0.358	0.486
l7_ged_dummy_os	0.4747	0.221	2.146	0.032	0.041	0.908
l8_ged_dummy_os	0.1779	0.222	0.802	0.423	-0.257	0.613
l9_ged_dummy_os	0.2500	0.225	1.112	0.266	-0.191	0.691
l10_ged_dummy_os	-0.0057	0.224	-0.025	0.980	-0.445	0.434
l11_ged_dummy_os	0.3861	0.219	1.761	0.078	-0.044	0.816
l12_ged_dummy_os	-0.0708	0.217	-0.326	0.745	-0.497	0.355
l1_ged_dummy_sb	0.2498	0.237	1.053	0.292	-0.215	0.715
l1_ged_dummy_ns	-0.2651	0.279	-0.949	0.343	-0.813	0.283
l1_ged_dummy_os	0.2822	0.214	1.318	0.187	-0.137	0.702
l1_acled_dummy_pr	-0.1046	0.188	-0.557	0.577	-0.473	0.263
decay_12_cw_ged_dummy_sb_0	1.1330	0.269	4.212	0.000	0.606	1.660
decay_12_cw_ged_dummy_ns_0	0.8214	0.295	2.788	0.005	0.244	1.399
decay_12_cw_ged_dummy_os_0	2.0646	0.296	6.965	0.000	1.484	2.646
decay_12_cw_acled_dummy_pr_0	1.0738	0.322	3.334	0.001	0.443	1.705
fvp_lngdpcap_nonoilrent	-0.4501	0.161	-2.801	0.005	-0.765	-0.135
fvp_lngdpcap_oilrent	0.0645	0.034	1.908	0.056	-0.002	0.131
fvp_grgdpcap_oilrent	-0.1093	0.169	-0.647	0.518	-0.440	0.222
fvp_grgdpcap_nonoilrent	-0.6604	0.529	-1.248	0.212	-1.697	0.377
ln_fvp_timeindep	-0.1448	0.204	-0.711	0.477	-0.544	0.254
ln_fvp_timesincepreindepwar	0.2504	0.176	1.426	0.154	-0.094	0.594
ln_fvp_timesinceregimechange	0.1178	0.087	1.362	0.173	-0.052	0.287
fvp_demo	-0.0465	0.278	-0.167	0.867	-0.591	0.498
fvp_semi	0.2866	0.240	1.195	0.232	-0.183	0.757
fvp_prop_excluded	0.3722	0.311	1.197	0.231	-0.237	0.982
ln_fvp_population200	0.1461	0.086	1.707	0.088	-0.022	0.314
ssp2_edu_sec_15_24_prop	0.3043	0.572	0.532	0.595	-0.817	1.426
ssp2_urban_share_iiasa	0.0060	0.007	0.913	0.361	-0.007	0.019
Intercept	-2.6153	1.370	-1.909	0.056	-5.300	0.069

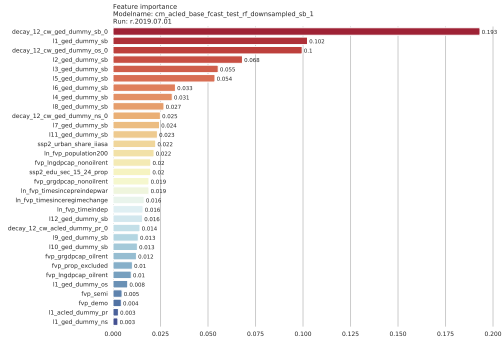
2.10.8 pr_eval

Dep. Variable:	acled_dummy_pr	**No. Observations:**	4803
Model:	Logit	**Df Residuals:**	4770
Method:	MLE	**Df Model:**	32
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.2987
Time:	00:30:12	**Log-Likelihood:**	-1507.0
converged:	True	**LL-Null:**	-2148.7

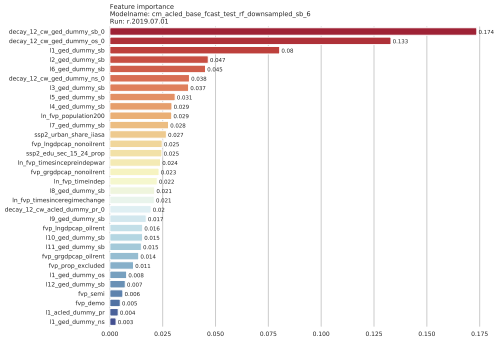
	coef	std err	z	P>|z|	[0.025	0.975]
l2_acled_dummy_pr	0.5762	0.126	4.561	0.000	0.329	0.824
l3_acled_dummy_pr	0.3857	0.124	3.121	0.002	0.144	0.628
l4_acled_dummy_pr	0.3432	0.125	2.735	0.006	0.097	0.589
l5_acled_dummy_pr	0.4881	0.125	3.917	0.000	0.244	0.732
l6_acled_dummy_pr	0.1285	0.122	1.053	0.292	-0.111	0.368
l7_acled_dummy_pr	0.3303	0.124	2.657	0.008	0.087	0.574
l8_acled_dummy_pr	-0.0410	0.121	-0.338	0.735	-0.279	0.197
l9_acled_dummy_pr	0.2405	0.128	1.883	0.060	-0.010	0.491
l10_acled_dummy_pr	0.3131	0.121	2.578	0.010	0.075	0.551
l11_acled_dummy_pr	0.4510	0.125	3.604	0.000	0.206	0.696
l12_acled_dummy_pr	0.1870	0.123	1.526	0.127	-0.053	0.427
l1_ged_dummy_sb	0.0551	0.209	0.264	0.792	-0.355	0.465
l1_ged_dummy_ns	0.3694	0.288	1.282	0.200	-0.196	0.934
l1_ged_dummy_os	-0.1309	0.211	-0.621	0.534	-0.544	0.282
l1_acled_dummy_pr	0.3607	0.127	2.843	0.004	0.112	0.609
decay_12_cw_ged_dummy_sb_0	-0.3685	0.209	-1.763	0.078	-0.778	0.041
decay_12_cw_ged_dummy_ns_0	-0.0345	0.243	-0.142	0.887	-0.510	0.441
decay_12_cw_ged_dummy_os_0	0.5134	0.212	2.417	0.016	0.097	0.930
decay_12_cw_acled_dummy_pr_0	0.7103	0.223	3.183	0.001	0.273	1.148
fvp_lngdpcap_nonoilrent	-0.0765	0.097	-0.787	0.431	-0.267	0.114
fvp_lngdpcap_oilrent	-0.0148	0.024	-0.629	0.529	-0.061	0.031
fvp_grgdpcap_oilrent	-0.1916	0.103	-1.852	0.064	-0.394	0.011
fvp_grgdpcap_nonoilrent	-0.3900	0.298	-1.310	0.190	-0.973	0.193
ln_fvp_timeindep	0.0748	0.139	0.540	0.589	-0.197	0.346
ln_fvp_timesincepreindepwar	-0.0628	0.113	-0.556	0.578	-0.284	0.159
ln_fvp_timesinceregimechange	0.0046	0.065	0.072	0.943	-0.123	0.132
fvp_demo	0.0320	0.178	0.180	0.857	-0.317	0.381
fvp_semi	0.1164	0.158	0.737	0.461	-0.193	0.426
fvp_prop_excluded	-0.0039	0.209	-0.019	0.985	-0.414	0.407
ln_fvp_population200	0.2556	0.045	5.624	0.000	0.167	0.345
ssp2_edu_sec_15_24_prop	0.4492	0.384	1.169	0.242	-0.304	1.202
ssp2_urban_share_iiasa	0.0038	0.004	0.944	0.345	-0.004	0.012
Intercept	-2.4189	0.904	-2.675	0.007	-4.191	-0.646

2.11 osa_cm_acled_base_rf

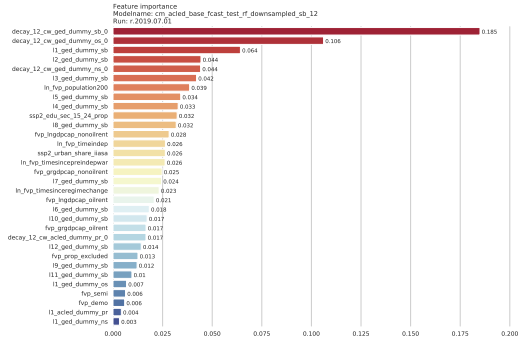
2.11.1 sb_fcast



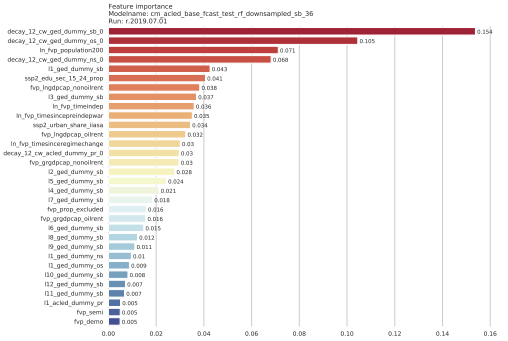
(a) 1 month



(b) 6 months

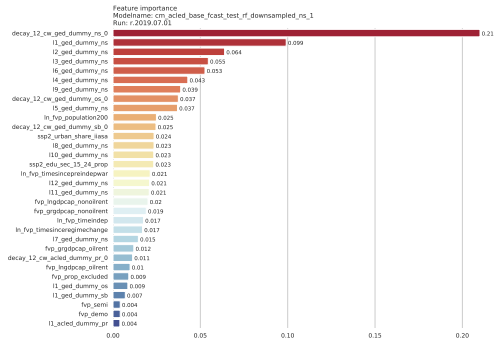


(c) 12 months

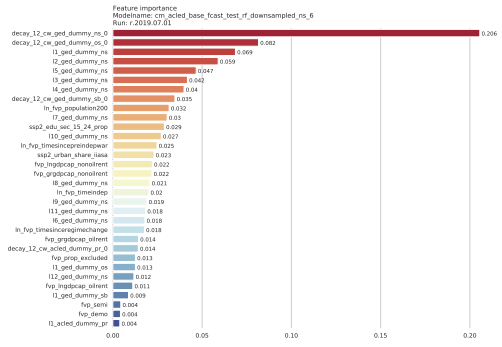


(d) 36 months

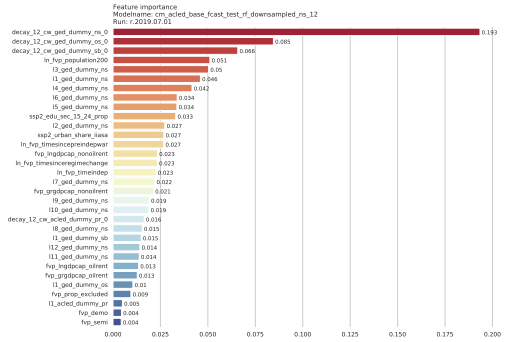
2.11.2 ns_fcast



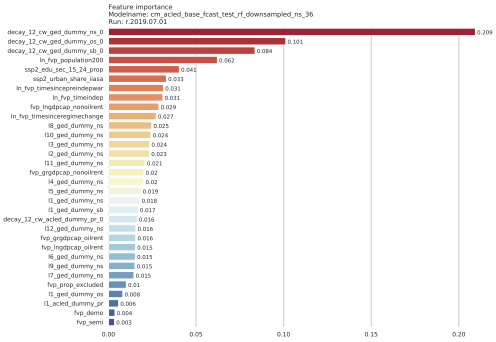
(a) 1 month



(b) 6 months

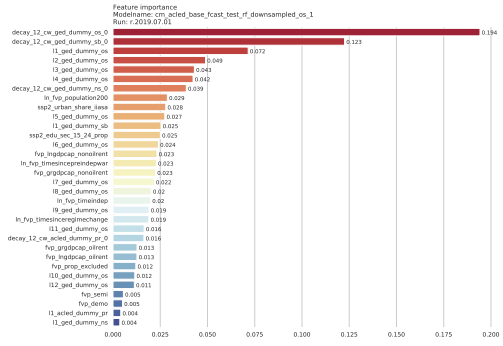


(c) 12 months

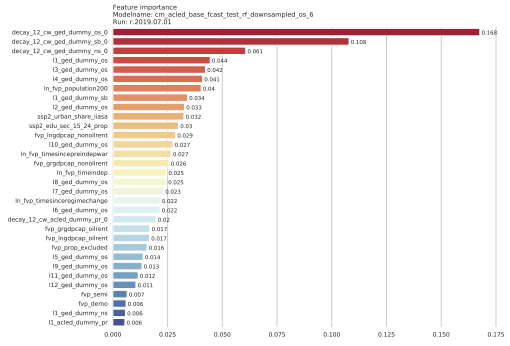


(d) 36 months

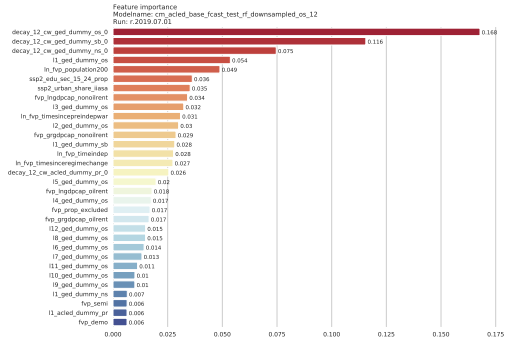
2.11.3 os_fcast



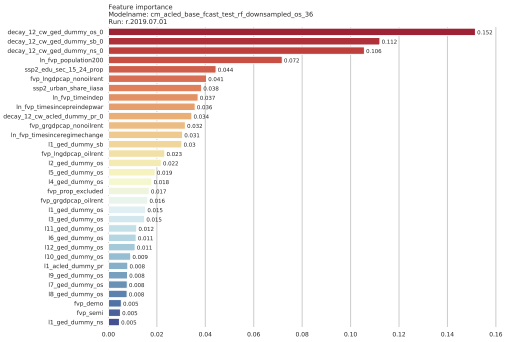
(a) 1 month



(b) 6 months

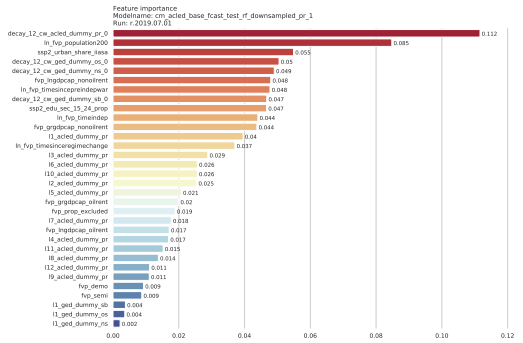


(c) 12 months

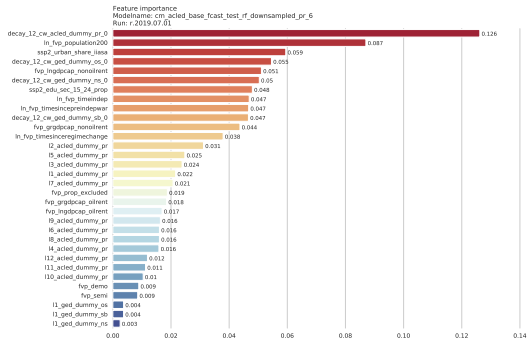


(d) 36 months

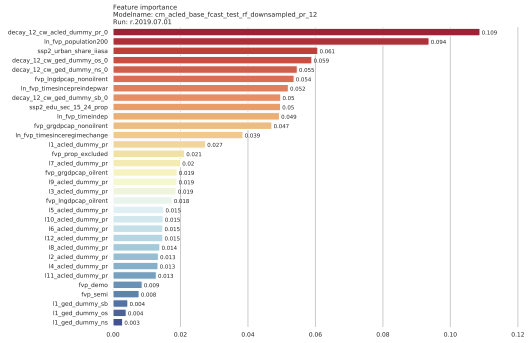
2.11.4 pr_fcast



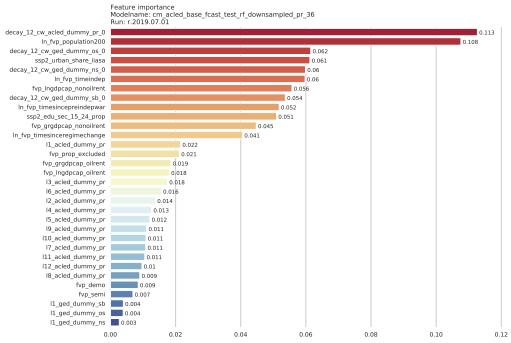
(a) 1 month



(b) 6 months

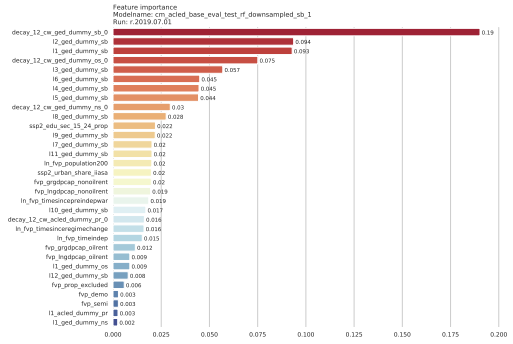


(c) 12 months

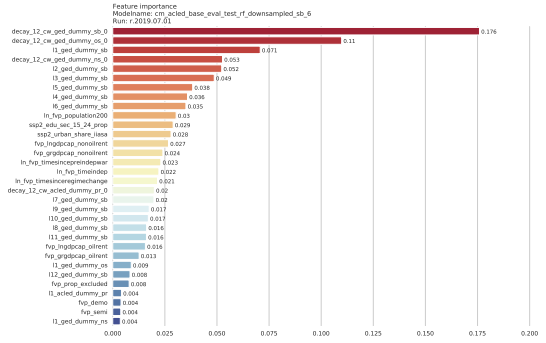


(d) 36 months

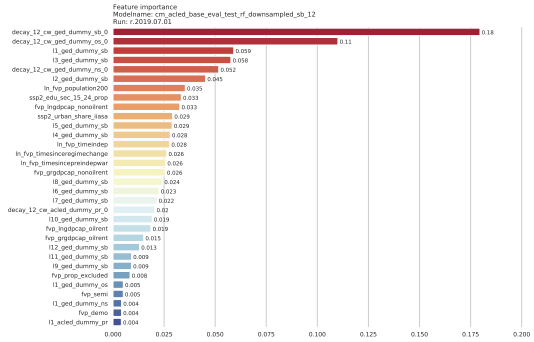
2.11.5 sb_eval



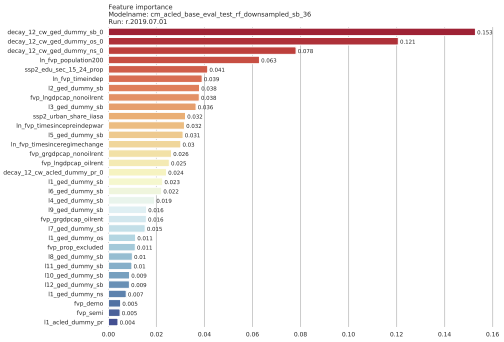
(a) 1 month



(b) 6 months

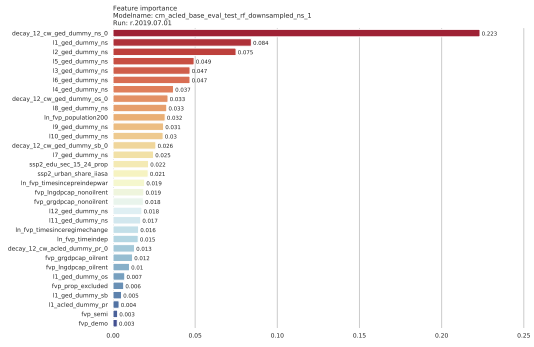


(c) 12 months

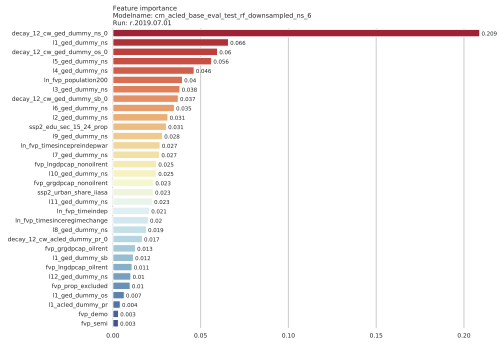


(d) 36 months

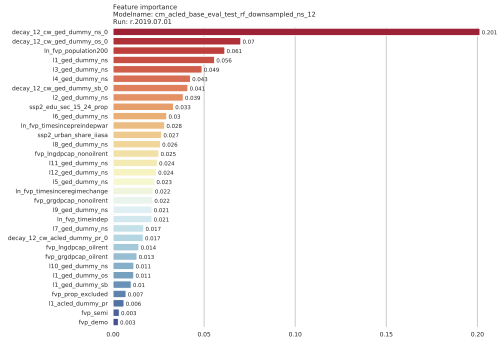
2.11.6 ns_eval



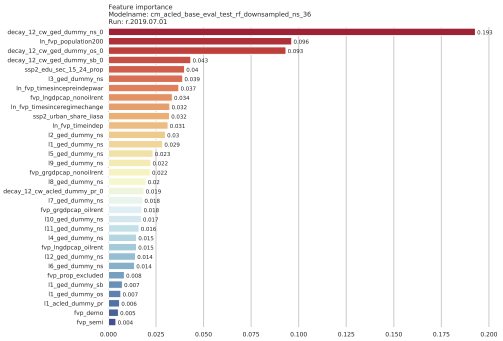
(a) 1 month



(b) 6 months

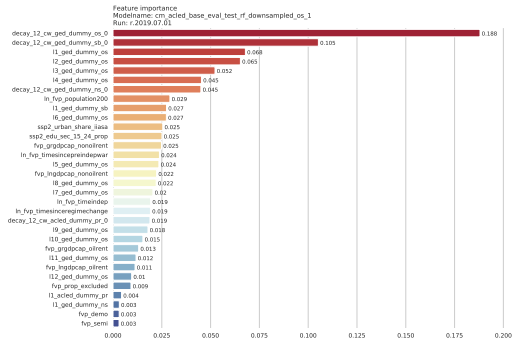


(c) 12 months

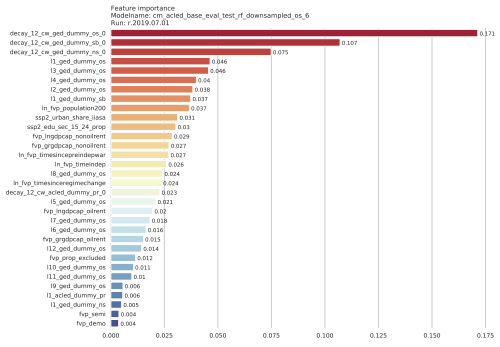


(d) 36 months

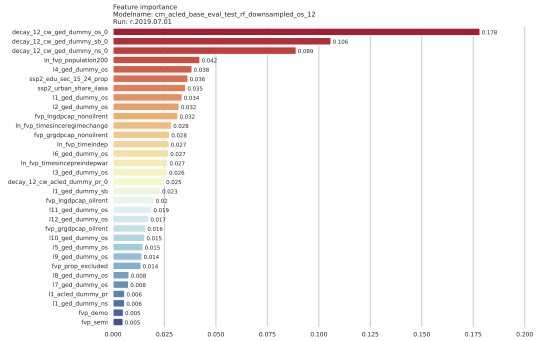
2.11.7 os_eval



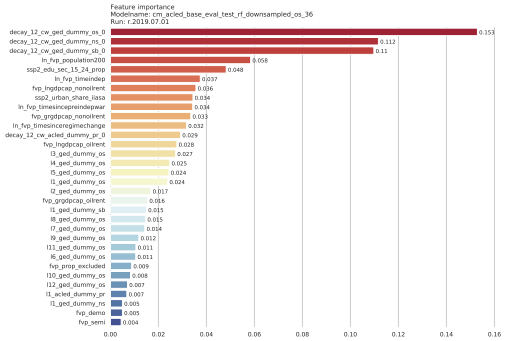
(a) 1 month



(b) 6 months

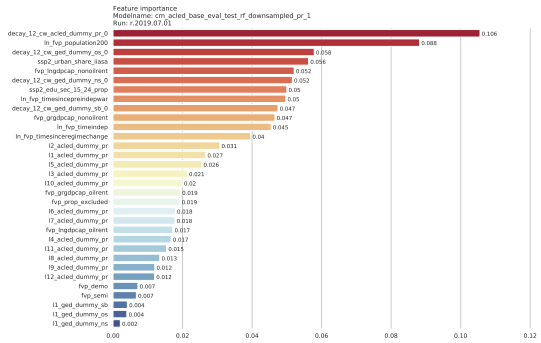


(c) 12 months

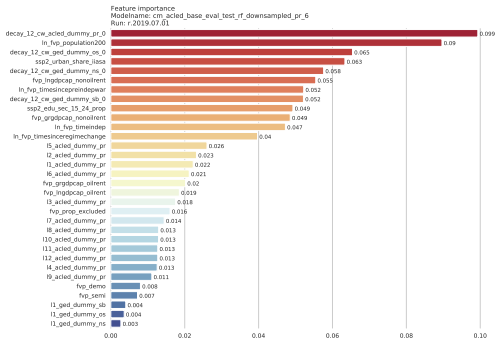


(d) 36 months

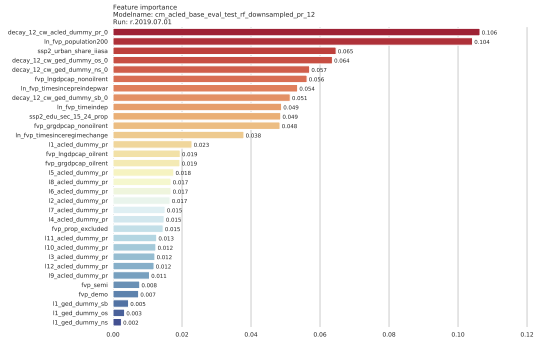
2.11.8 pr_eval



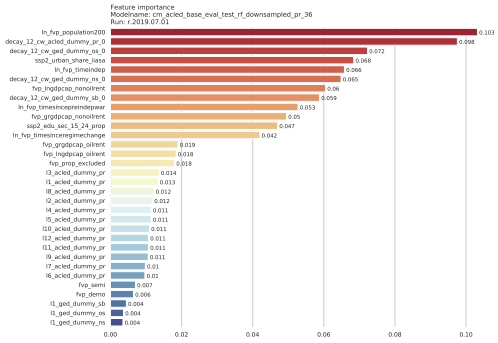
(a) 1 month



(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
average_allwthematic_sb

Table 2: Models in pgm-level ensemble

Table **??** 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', 'histonly', '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, 'histonly' 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

4.1.1 sb_fcast

Dep. Variable:	ged_dummy_sb	**No. Observations:**	3768981
Model:	Logit	**Df Residuals:**	3768928
Method:	MLE	**Df Model:**	52
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.4228
Time:	22:24:31	**Log-Likelihood:**	-49195.
converged:	True	**LL-Null:**	-85235.

	coef	std err	z	P>|z|	[0.025	0.975]
Intercept	-9.5400	0.318	-30.001	0.000	-10.163	-8.917
l2_ged_dummy_sb	0.1734	0.031	5.685	0.000	0.114	0.233
l3_ged_dummy_sb	0.1646	0.031	5.307	0.000	0.104	0.225
l4_ged_dummy_sb	0.1970	0.031	6.288	0.000	0.136	0.258
l5_ged_dummy_sb	0.2161	0.032	6.759	0.000	0.153	0.279
l6_ged_dummy_sb	0.0510	0.033	1.522	0.128	-0.015	0.117
l7_ged_dummy_sb	0.1983	0.034	5.915	0.000	0.133	0.264
l8_ged_dummy_sb	0.2178	0.034	6.408	0.000	0.151	0.284
l9_ged_dummy_sb	0.2615	0.034	7.621	0.000	0.194	0.329
l10_ged_dummy_sb	0.2196	0.035	6.293	0.000	0.151	0.288
l11_ged_dummy_sb	0.2199	0.035	6.246	0.000	0.151	0.289
l12_ged_dummy_sb	0.2664	0.035	7.596	0.000	0.198	0.335
q_1_1_l2_ged_dummy_sb	0.1099	0.015	7.228	0.000	0.080	0.140
q_1_1_l3_ged_dummy_sb	0.0849	0.015	5.676	0.000	0.056	0.114
l1_ged_dummy_sb	0.2185	0.031	7.081	0.000	0.158	0.279
l1_ged_dummy_ns	0.4271	0.124	3.440	0.001	0.184	0.670
l1_ged_dummy_os	0.2474	0.047	5.252	0.000	0.155	0.340
decay_12_cw_ged_dummy_sb_0	3.9000	0.043	89.738	0.000	3.815	3.985
decay_12_cw_ged_dummy_ns_0	-0.4989	0.066	-7.614	0.000	-0.627	-0.370
decay_12_cw_ged_dummy_os_0	0.9696	0.044	22.058	0.000	0.883	1.056
q_1_1_l1_ged_dummy_sb	0.2699	0.015	18.246	0.000	0.241	0.299
q_1_1_l1_ged_dummy_ns	-0.0979	0.052	-1.883	0.060	-0.200	0.004
q_1_1_l1_ged_dummy_os	0.0955	0.018	5.364	0.000	0.061	0.130
ln_dist_diamsec	0.3007	0.018	16.519	0.000	0.265	0.336
ln_dist_petroleum	-0.0234	0.020	-1.166	0.244	-0.063	0.016
agri_ih_li	-0.0032	0.001	-3.189	0.001	-0.005	-0.001
barren_ih_li	-0.0020	0.001	-2.436	0.015	-0.004	-0.000
forest_ih_li	-0.0005	0.001	-0.601	0.548	-0.002	0.001
mountains_mean	-0.0861	0.038	-2.257	0.024	-0.161	-0.011
savanna_ih_li	-0.0009	0.001	-1.052	0.293	-0.003	0.001
shrub_ih_li	0.0110	0.001	10.986	0.000	0.009	0.013
pasture_ih_li	0.0033	0.001	4.791	0.000	0.002	0.005
urban_ih_li	0.0342	0.009	3.929	0.000	0.017	0.051
ln_bdist3	-0.1049	0.009	-11.859	0.000	-0.122	-0.088
ln_ttime	-0.1437	0.022	-6.664	0.000	-0.186	-0.101
ln_capdist	0.0476	0.015	3.133	0.002	0.018	0.077
ln_pop	0.2200	0.012	18.539	0.000	0.197	0.243
gcp_li_mer	0.0756	0.012	6.219	0.000	0.052	0.099
imr_mean	0.0007	4.29e-05	17.261	0.000	0.001	0.001
excluded_dummy_li	0.1140	0.023	4.928	0.000	0.069	0.159
fvp_lngdpcap_nonoilrent	-0.0709	0.024	-2.974	0.003	-0.118	-0.024
fvp_lngdpcap_oilrent	0.0905	0.006	15.572	0.000	0.079	0.102
fvp_grgdpcap_oilrent	-0.1333	0.028	-4.822	0.000	-0.187	-0.079
fvp_grgdpcap_nonoilrent	-0.5144	0.074	-6.962	0.000	-0.659	-0.370
ln_fvp_timeindep	0.2105	0.032	6.535	0.000	0.147	0.274
ln_fvp_timesincepreindepwar	-0.0826	0.028	-2.986	0.003	-0.137	-0.028
ln_fvp_timesinceregimechange	-0.1031	0.011	-9.231	0.000	-0.125	-0.081
fvp_demo	-0.5183	0.041	-12.515	0.000	-0.600	-0.437
fvp_semi	-0.3596	0.029	-12.438	0.000	-0.416	-0.303
fvp_prop_excluded	0.0210	0.045	0.467	0.640	-0.067	0.109
ln_fvp_population200	0.0332	0.015	2.155	0.031	0.003	0.063
ssp2_edu_sec_15_24_prop	-0.1232	0.094	-1.307	0.191	-0.308	0.061
ssp2_urban_share_iiasa	-0.0002	0.001	-0.186	0.853	-0.002	0.002

4.1.2 ns_fcast

Dep. Variable:	ged_dummy_ns	**No. Observations:**	3768981
Model:	Logit	**Df Residuals:**	3768928
Method:	MLE	**Df Model:**	52
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.3624
Time:	22:24:55	**Log-Likelihood:**	-21736.
converged:	True	**LL-Null:**	-34090.

	coef	std err	z	P>|z|	[0.025	0.975]
Intercept	-14.4389	0.528	-27.367	0.000	-15.473	-13.405
l2_ged_dummy_ns	0.3421	0.058	5.937	0.000	0.229	0.455
l3_ged_dummy_ns	0.2079	0.060	3.456	0.001	0.090	0.326
l4_ged_dummy_ns	0.1348	0.063	2.149	0.032	0.012	0.258
l5_ged_dummy_ns	0.3442	0.063	5.463	0.000	0.221	0.468
l6_ged_dummy_ns	0.2271	0.066	3.423	0.001	0.097	0.357
l7_ged_dummy_ns	0.2168	0.068	3.175	0.002	0.083	0.351
l8_ged_dummy_ns	0.1732	0.071	2.456	0.014	0.035	0.311
l9_ged_dummy_ns	0.3178	0.071	4.488	0.000	0.179	0.457
l10_ged_dummy_ns	0.2619	0.073	3.606	0.000	0.120	0.404
l11_ged_dummy_ns	0.2669	0.074	3.626	0.000	0.123	0.411
l12_ged_dummy_ns	0.2994	0.074	4.060	0.000	0.155	0.444
q_1_1_l2_ged_dummy_ns	0.1950	0.034	5.803	0.000	0.129	0.261
q_1_1_l3_ged_dummy_ns	0.0874	0.034	2.535	0.011	0.020	0.155
l1_ged_dummy_sb	0.0072	0.114	0.063	0.950	-0.217	0.232
l1_ged_dummy_ns	0.4710	0.058	8.169	0.000	0.358	0.584
l1_ged_dummy_os	0.3704	0.091	4.061	0.000	0.192	0.549
decay_12_cw_ged_dummy_sb_0	0.2853	0.091	3.150	0.002	0.108	0.463
decay_12_cw_ged_dummy_ns_0	3.9847	0.072	55.673	0.000	3.844	4.125
decay_12_cw_ged_dummy_os_0	0.6353	0.082	7.712	0.000	0.474	0.797
q_1_1_l1_ged_dummy_sb	-0.1362	0.039	-3.498	0.000	-0.213	-0.060
q_1_1_l1_ged_dummy_ns	0.4810	0.032	14.921	0.000	0.418	0.544
q_1_1_l1_ged_dummy_os	0.1670	0.035	4.724	0.000	0.098	0.236
ln_dist_diamsec	0.3164	0.031	10.237	0.000	0.256	0.377
ln_dist_petroleum	0.6399	0.043	14.780	0.000	0.555	0.725
agri_ih_li	0.0065	0.002	4.019	0.000	0.003	0.010
barren_ih_li	-0.0035	0.002	-2.277	0.023	-0.006	-0.000
forest_ih_li	-0.0033	0.002	-2.153	0.031	-0.006	-0.000
mountains_mean	-0.2173	0.066	-3.309	0.001	-0.346	-0.089
savanna_ih_li	0.0052	0.001	3.598	0.000	0.002	0.008
shrub_ih_li	0.0173	0.002	10.009	0.000	0.014	0.021
pasture_ih_li	0.0072	0.001	5.453	0.000	0.005	0.010
urban_ih_li	0.0240	0.013	1.841	0.066	-0.002	0.050
ln_bdist3	-0.0993	0.015	-6.686	0.000	-0.128	-0.070
ln_ttime	0.0051	0.036	0.141	0.888	-0.066	0.076
ln_capdist	0.0797	0.025	3.188	0.001	0.031	0.129
ln_pop	0.2819	0.020	14.366	0.000	0.243	0.320
gcp_li_mer	0.0108	0.023	0.478	0.632	-0.034	0.055
imr_mean	9.866e-05	7.36e-05	1.340	0.180	-4.56e-05	0.000
excluded_dummy_li	0.3181	0.038	8.270	0.000	0.243	0.393
fvp_lngdpcap_nonoilrent	-0.0706	0.038	-1.848	0.065	-0.145	0.004
fvp_lngdpcap_oilrent	0.1053	0.009	12.239	0.000	0.088	0.122
fvp_grgdpcap_oilrent	-0.2435	0.045	-5.460	0.000	-0.331	-0.156
fvp_grgdpcap_nonoilrent	-0.5635	0.115	-4.882	0.000	-0.790	-0.337
ln_fvp_timeindep	0.3925	0.051	7.731	0.000	0.293	0.492
ln_fvp_timesincepreindepwar	0.1812	0.050	3.604	0.000	0.083	0.280
ln_fvp_timesinceregimechange	-0.0984	0.017	-5.897	0.000	-0.131	-0.066
fvp_demo	-0.3934	0.067	-5.908	0.000	-0.524	-0.263
fvp_semi	-0.1279	0.053	-2.435	0.015	-0.231	-0.025
fvp_prop_excluded	-0.6664	0.076	-8.719	0.000	-0.816	-0.517
ln_fvp_population200	-0.0982	0.024	-4.131	0.000	-0.145	-0.052
ssp2_edu_sec_15_24_prop	1.5940	0.143	11.134	0.000	1.313	1.875
ssp2_urban_share_iiasa	-0.0019	0.002	-1.063	0.288	-0.005	0.002

4.1.3 os_fcast

Dep. Variable:	ged_dummy_os	**No. Observations:**	3768981
Model:	Logit	**Df Residuals:**	3768928
Method:	MLE	**Df Model:**	52
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.3917
Time:	22:24:50	**Log-Likelihood:**	-36429.
converged:	True	**LL-Null:**	-59891.

	coef	std err	z	P>|z|	[0.025	0.975]
Intercept	-9.1002	0.376	-24.209	0.000	-9.837	-8.363
l2_ged_dummy_os	0.1462	0.040	3.679	0.000	0.068	0.224
l3_ged_dummy_os	0.1705	0.040	4.213	0.000	0.091	0.250
l4_ged_dummy_os	0.1328	0.041	3.221	0.001	0.052	0.214
l5_ged_dummy_os	0.1534	0.042	3.638	0.000	0.071	0.236
l6_ged_dummy_os	0.1870	0.043	4.348	0.000	0.103	0.271
l7_ged_dummy_os	0.1554	0.044	3.513	0.000	0.069	0.242
l8_ged_dummy_os	0.0707	0.046	1.545	0.122	-0.019	0.160
l9_ged_dummy_os	0.1315	0.046	2.837	0.005	0.041	0.222
l10_ged_dummy_os	0.0107	0.048	0.223	0.824	-0.083	0.105
l11_ged_dummy_os	0.1338	0.048	2.801	0.005	0.040	0.227
l12_ged_dummy_os	0.2921	0.047	6.267	0.000	0.201	0.383
q_1_1_l2_ged_dummy_os	0.1082	0.019	5.695	0.000	0.071	0.145
q_1_1_l3_ged_dummy_os	0.0475	0.019	2.565	0.010	0.011	0.084
l1_ged_dummy_sb	0.2211	0.048	4.626	0.000	0.127	0.315
l1_ged_dummy_ns	0.6195	0.092	6.754	0.000	0.440	0.799
l1_ged_dummy_os	0.4320	0.040	10.832	0.000	0.354	0.510
decay_12_cw_ged_dummy_sb_0	1.2935	0.052	24.847	0.000	1.191	1.396
decay_12_cw_ged_dummy_ns_0	0.0825	0.062	1.325	0.185	-0.040	0.205
decay_12_cw_ged_dummy_os_0	3.3328	0.056	59.582	0.000	3.223	3.442
q_1_1_l1_ged_dummy_sb	0.0378	0.017	2.163	0.031	0.004	0.072
q_1_1_l1_ged_dummy_ns	0.1649	0.033	4.997	0.000	0.100	0.230
q_1_1_l1_ged_dummy_os	0.3379	0.018	18.632	0.000	0.302	0.373
ln_dist_diamsec	-0.0976	0.020	-4.895	0.000	-0.137	-0.059
ln_dist_petroleum	0.3610	0.028	12.713	0.000	0.305	0.417
agri_ih_li	0.0015	0.001	1.288	0.198	-0.001	0.004
barren_ih_li	-0.0065	0.001	-5.447	0.000	-0.009	-0.004
forest_ih_li	-0.0006	0.001	-0.618	0.537	-0.002	0.001
mountains_mean	-0.2491	0.047	-5.329	0.000	-0.341	-0.157
savanna_ih_li	0.0063	0.001	7.116	0.000	0.005	0.008
shrub_ih_li	0.0011	0.002	0.696	0.486	-0.002	0.004
pasture_ih_li	0.0003	0.001	0.303	0.762	-0.001	0.002
urban_ih_li	0.0395	0.009	4.239	0.000	0.021	0.058
ln_bdist3	-0.0904	0.011	-8.497	0.000	-0.111	-0.070
ln_ttime	-0.1750	0.028	-6.333	0.000	-0.229	-0.121
ln_capdist	0.1066	0.017	6.181	0.000	0.073	0.140
ln_pop	0.2961	0.015	19.507	0.000	0.266	0.326
gcp_li_mer	0.0953	0.015	6.343	0.000	0.066	0.125
imr_mean	0.0003	5.18e-05	5.217	0.000	0.000	0.000
excluded_dummy_li	0.2489	0.028	8.803	0.000	0.193	0.304
fvp_lngdpcap_nonoilrent	-0.2740	0.027	-10.145	0.000	-0.327	-0.221
fvp_lngdpcap_oilrent	0.0743	0.007	11.192	0.000	0.061	0.087
fvp_grgdpcap_oilrent	-0.2048	0.035	-5.908	0.000	-0.273	-0.137
fvp_grgdpcap_nonoilrent	-0.3093	0.084	-3.702	0.000	-0.473	-0.146
ln_fvp_timeindep	0.3886	0.034	11.502	0.000	0.322	0.455
ln_fvp_timesincepreindepwar	-0.0707	0.032	-2.186	0.029	-0.134	-0.007
ln_fvp_timesinceregimechange	-0.0761	0.013	-5.909	0.000	-0.101	-0.051
fvp_demo	-0.5919	0.049	-12.053	0.000	-0.688	-0.496
fvp_semi	-0.2481	0.036	-6.979	0.000	-0.318	-0.178
fvp_prop_excluded	0.0878	0.049	1.785	0.074	-0.009	0.184
ln_fvp_population200	-0.0613	0.018	-3.434	0.001	-0.096	-0.026
ssp2_edu_sec_15_24_prop	0.7743	0.105	7.356	0.000	0.568	0.981
ssp2_urban_share_iiasa	-0.0002	0.001	-0.140	0.889	-0.003	0.002

4.1.4 sb_eval

Dep. Variable:	ged_dummy_sb	**No. Observations:**	3331224
Model:	Logit	**Df Residuals:**	3331171
Method:	MLE	**Df Model:**	52
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.4153
Time:	22:21:51	**Log-Likelihood:**	-40676.
converged:	True	**LL-Null:**	-69565.

	coef	std err	z	P>|z|	[0.025	0.975]
Intercept	-9.7351	0.365	-26.646	0.000	-10.451	-9.019
l2_ged_dummy_sb	0.1533	0.034	4.455	0.000	0.086	0.221
l3_ged_dummy_sb	0.1887	0.035	5.418	0.000	0.120	0.257
l4_ged_dummy_sb	0.2021	0.035	5.738	0.000	0.133	0.271
l5_ged_dummy_sb	0.2095	0.036	5.816	0.000	0.139	0.280
l6_ged_dummy_sb	0.0420	0.038	1.112	0.266	-0.032	0.116
l7_ged_dummy_sb	0.1662	0.038	4.378	0.000	0.092	0.241
l8_ged_dummy_sb	0.2505	0.038	6.558	0.000	0.176	0.325
l9_ged_dummy_sb	0.2888	0.039	7.488	0.000	0.213	0.364
l10_ged_dummy_sb	0.2268	0.039	5.758	0.000	0.150	0.304
l11_ged_dummy_sb	0.2383	0.040	5.992	0.000	0.160	0.316
l12_ged_dummy_sb	0.2352	0.040	5.906	0.000	0.157	0.313
q_1_1_l2_ged_dummy_sb	0.1017	0.018	5.807	0.000	0.067	0.136
q_1_1_l3_ged_dummy_sb	0.1049	0.017	6.120	0.000	0.071	0.139
l1_ged_dummy_sb	0.2835	0.035	8.194	0.000	0.216	0.351
l1_ged_dummy_ns	0.5667	0.148	3.818	0.000	0.276	0.858
l1_ged_dummy_os	0.3063	0.054	5.725	0.000	0.201	0.411
decay_12_cw_ged_dummy_sb_0	3.8305	0.049	78.790	0.000	3.735	3.926
decay_12_cw_ged_dummy_ns_0	-0.5615	0.075	-7.468	0.000	-0.709	-0.414
decay_12_cw_ged_dummy_os_0	0.9732	0.050	19.551	0.000	0.876	1.071
q_1_1_l1_ged_dummy_sb	0.2709	0.017	16.017	0.000	0.238	0.304
q_1_1_l1_ged_dummy_ns	-0.1742	0.070	-2.503	0.012	-0.311	-0.038
q_1_1_l1_ged_dummy_os	0.1045	0.020	5.201	0.000	0.065	0.144
ln_dist_diamsec	0.2588	0.020	12.696	0.000	0.219	0.299
ln_dist_petroleum	0.0109	0.023	0.480	0.631	-0.034	0.055
agri_ih_li	-0.0024	0.001	-2.170	0.030	-0.005	-0.000
barren_ih_li	-0.0033	0.001	-3.494	0.000	-0.005	-0.001
forest_ih_li	-0.0017	0.001	-1.691	0.091	-0.004	0.000
mountains_mean	-0.0719	0.042	-1.724	0.085	-0.154	0.010
savanna_ih_li	-0.0022	0.001	-2.292	0.022	-0.004	-0.000
shrub_ih_li	0.0108	0.001	9.735	0.000	0.009	0.013
pasture_ih_li	0.0028	0.001	3.586	0.000	0.001	0.004
urban_ih_li	0.0344	0.011	3.122	0.002	0.013	0.056
ln_bdist3	-0.1090	0.010	-10.993	0.000	-0.128	-0.090
ln_ttime	-0.1456	0.024	-6.071	0.000	-0.193	-0.099
ln_capdist	0.0305	0.017	1.749	0.080	-0.004	0.065
ln_pop	0.2153	0.013	16.031	0.000	0.189	0.242
gcp_li_mer	0.0970	0.014	6.823	0.000	0.069	0.125
imr_mean	0.0008	4.85e-05	15.467	0.000	0.001	0.001
excluded_dummy_li	0.1205	0.026	4.603	0.000	0.069	0.172
fvp_lngdpcap_nonoilrent	-0.0721	0.028	-2.542	0.011	-0.128	-0.017
fvp_lngdpcap_oilrent	0.1044	0.007	15.746	0.000	0.091	0.117
fvp_grgdpcap_oilrent	-0.1578	0.030	-5.289	0.000	-0.216	-0.099
fvp_grgdpcap_nonoilrent	-0.6506	0.081	-8.041	0.000	-0.809	-0.492
ln_fvp_timeindep	0.2627	0.035	7.486	0.000	0.194	0.332
ln_fvp_timesincepreindepwar	-0.1166	0.031	-3.766	0.000	-0.177	-0.056
ln_fvp_timesinceregimechange	-0.1123	0.014	-7.829	0.000	-0.140	-0.084
fvp_demo	-0.7468	0.049	-15.230	0.000	-0.843	-0.651
fvp_semi	-0.4170	0.031	-13.291	0.000	-0.479	-0.356
fvp_prop_excluded	-0.0211	0.048	-0.443	0.658	-0.115	0.072
ln_fvp_population200	0.0761	0.020	3.878	0.000	0.038	0.115
ssp2_edu_sec_15_24_prop	-0.1789	0.115	-1.554	0.120	-0.405	0.047
ssp2_urban_share_iiasa	-0.0007	0.001	-0.588	0.557	-0.003	0.002

4.1.5 ns_eval

Dep. Variable:	ged_dummy_ns	**No. Observations:**	3331224
Model:	Logit	**Df Residuals:**	3331171
Method:	MLE	**Df Model:**	52
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.3733
Time:	22:21:45	**Log-Likelihood:**	-16377.
converged:	True	**LL-Null:**	-26132.

	coef	std err	z	P>|z|	[0.025	0.975]
Intercept	-18.0938	0.668	-27.074	0.000	-19.404	-16.784
l2_ged_dummy_ns	0.3822	0.067	5.707	0.000	0.251	0.513
l3_ged_dummy_ns	0.2455	0.070	3.518	0.000	0.109	0.382
l4_ged_dummy_ns	0.2014	0.072	2.790	0.005	0.060	0.343
l5_ged_dummy_ns	0.3001	0.074	4.076	0.000	0.156	0.444
l6_ged_dummy_ns	0.1625	0.078	2.091	0.037	0.010	0.315
l7_ged_dummy_ns	0.1785	0.080	2.237	0.025	0.022	0.335
l8_ged_dummy_ns	0.1067	0.083	1.291	0.197	-0.055	0.269
l9_ged_dummy_ns	0.3507	0.081	4.312	0.000	0.191	0.510
l10_ged_dummy_ns	0.3031	0.084	3.629	0.000	0.139	0.467
l11_ged_dummy_ns	0.1975	0.086	2.289	0.022	0.028	0.367
l12_ged_dummy_ns	0.2353	0.086	2.722	0.006	0.066	0.405
q_1_1_l2_ged_dummy_ns	0.1481	0.041	3.574	0.000	0.067	0.229
q_1_1_l3_ged_dummy_ns	0.0837	0.042	2.000	0.046	0.002	0.166
l1_ged_dummy_sb	0.1897	0.139	1.362	0.173	-0.083	0.463
l1_ged_dummy_ns	0.5090	0.067	7.592	0.000	0.378	0.640
l1_ged_dummy_os	0.4692	0.109	4.308	0.000	0.256	0.683
decay_12_cw_ged_dummy_sb_0	0.0866	0.109	0.794	0.427	-0.127	0.300
decay_12_cw_ged_dummy_ns_0	3.9067	0.083	47.158	0.000	3.744	4.069
decay_12_cw_ged_dummy_os_0	0.5537	0.097	5.680	0.000	0.363	0.745
q_1_1_l1_ged_dummy_sb	-0.1552	0.055	-2.839	0.005	-0.262	-0.048
q_1_1_l1_ged_dummy_ns	0.5051	0.039	12.798	0.000	0.428	0.582
q_1_1_l1_ged_dummy_os	0.2001	0.042	4.816	0.000	0.119	0.281
ln_dist_diamsec	0.2797	0.037	7.617	0.000	0.208	0.352
ln_dist_petroleum	0.8225	0.054	15.224	0.000	0.717	0.928
agri_ih_li	0.0101	0.002	5.289	0.000	0.006	0.014
barren_ih_li	0.0006	0.002	0.324	0.746	-0.003	0.004
forest_ih_li	0.0013	0.002	0.724	0.469	-0.002	0.005
mountains_mean	-0.1757	0.075	-2.346	0.019	-0.322	-0.029
savanna_ih_li	0.0067	0.002	3.780	0.000	0.003	0.010
shrub_ih_li	0.0217	0.002	10.663	0.000	0.018	0.026
pasture_ih_li	0.0121	0.002	7.735	0.000	0.009	0.015
urban_ih_li	0.0294	0.014	2.055	0.040	0.001	0.057
ln_bdist3	-0.1550	0.017	-9.067	0.000	-0.189	-0.122
ln_ttime	0.0515	0.042	1.226	0.220	-0.031	0.134
ln_capdist	0.0002	0.029	0.008	0.994	-0.058	0.058
ln_pop	0.3196	0.023	13.806	0.000	0.274	0.365
gcp_li_mer	0.0217	0.025	0.870	0.385	-0.027	0.071
imr_mean	0.0002	8.91e-05	1.955	0.051	-4.28e-07	0.000
excluded_dummy_li	0.4402	0.046	9.666	0.000	0.351	0.529
fvp_lngdpcap_nonoilrent	0.1267	0.050	2.544	0.011	0.029	0.224
fvp_lngdpcap_oilrent	0.0741	0.011	6.968	0.000	0.053	0.095
fvp_grgdpcap_oilrent	-0.2489	0.051	-4.904	0.000	-0.348	-0.149
fvp_grgdpcap_nonoilrent	-1.2436	0.145	-8.581	0.000	-1.528	-0.960
ln_fvp_timeindep	0.3254	0.058	5.594	0.000	0.211	0.439
ln_fvp_timesincepreindepwar	0.1158	0.060	1.934	0.053	-0.002	0.233
ln_fvp_timesinceregimechange	-0.0687	0.022	-3.076	0.002	-0.112	-0.025
fvp_demo	-0.4752	0.079	-5.981	0.000	-0.631	-0.319
fvp_semi	-0.1448	0.060	-2.396	0.017	-0.263	-0.026
fvp_prop_excluded	-0.6839	0.084	-8.140	0.000	-0.849	-0.519
ln_fvp_population200	0.0974	0.034	2.856	0.004	0.031	0.164
ssp2_edu_sec_15_24_prop	1.2483	0.183	6.807	0.000	0.889	1.608
ssp2_urban_share_iiasa	-0.0049	0.002	-2.437	0.015	-0.009	-0.001

4.1.6 os_eval

Dep. Variable:	ged_dummy_os	**No. Observations:**	3331224
Model:	Logit	**Df Residuals:**	3331171
Method:	MLE	**Df Model:**	52
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.3899
Time:	22:21:49	**Log-Likelihood:**	-29708.
converged:	True	**LL-Null:**	-48697.

	coef	std err	z	P>|z|	[0.025	0.975]
Intercept	-9.2164	0.435	-21.171	0.000	-10.070	-8.363
l2_ged_dummy_os	0.1365	0.045	3.050	0.002	0.049	0.224
l3_ged_dummy_os	0.1449	0.046	3.174	0.002	0.055	0.234
l4_ged_dummy_os	0.1416	0.046	3.059	0.002	0.051	0.232
l5_ged_dummy_os	0.1078	0.048	2.264	0.024	0.014	0.201
l6_ged_dummy_os	0.1753	0.048	3.623	0.000	0.080	0.270
l7_ged_dummy_os	0.1508	0.050	3.041	0.002	0.054	0.248
l8_ged_dummy_os	0.1050	0.051	2.053	0.040	0.005	0.205
l9_ged_dummy_os	0.1557	0.052	2.998	0.003	0.054	0.257
l10_ged_dummy_os	0.0461	0.054	0.859	0.390	-0.059	0.151
l11_ged_dummy_os	0.1257	0.054	2.335	0.020	0.020	0.231
l12_ged_dummy_os	0.3349	0.052	6.398	0.000	0.232	0.437
q_1_1_l2_ged_dummy_os	0.0901	0.021	4.235	0.000	0.048	0.132
q_1_1_l3_ged_dummy_os	0.0549	0.021	2.641	0.008	0.014	0.096
l1_ged_dummy_sb	0.2259	0.054	4.151	0.000	0.119	0.333
l1_ged_dummy_ns	0.7261	0.106	6.848	0.000	0.518	0.934
l1_ged_dummy_os	0.4432	0.045	9.883	0.000	0.355	0.531
decay_12_cw_ged_dummy_sb_0	1.2947	0.058	22.180	0.000	1.180	1.409
decay_12_cw_ged_dummy_ns_0	0.0211	0.071	0.296	0.767	-0.119	0.161
decay_12_cw_ged_dummy_os_0	3.3597	0.063	53.198	0.000	3.236	3.483
q_1_1_l1_ged_dummy_sb	0.0670	0.021	3.251	0.001	0.027	0.107
q_1_1_l1_ged_dummy_ns	0.1365	0.039	3.527	0.000	0.061	0.212
q_1_1_l1_ged_dummy_os	0.3537	0.020	17.433	0.000	0.314	0.393
ln_dist_diamsec	-0.1580	0.022	-7.033	0.000	-0.202	-0.114
ln_dist_petroleum	0.3760	0.032	11.702	0.000	0.313	0.439
agri_ih_li	0.0026	0.001	1.957	0.050	-3.85e-06	0.005
barren_ih_li	-0.0061	0.001	-4.600	0.000	-0.009	-0.004
forest_ih_li	0.0005	0.001	0.497	0.619	-0.002	0.003
mountains_mean	-0.2121	0.052	-4.106	0.000	-0.313	-0.111
savanna_ih_li	0.0067	0.001	6.639	0.000	0.005	0.009
shrub_ih_li	0.0013	0.002	0.713	0.476	-0.002	0.005
pasture_ih_li	0.0007	0.001	0.750	0.453	-0.001	0.003
urban_ih_li	0.0413	0.011	3.719	0.000	0.020	0.063
ln_bdist3	-0.1042	0.012	-8.719	0.000	-0.128	-0.081
ln_ttime	-0.2036	0.031	-6.606	0.000	-0.264	-0.143
ln_capdist	0.1027	0.020	5.151	0.000	0.064	0.142
ln_pop	0.2838	0.017	16.687	0.000	0.251	0.317
gcp_li_mer	0.1103	0.017	6.444	0.000	0.077	0.144
imr_mean	0.0002	5.87e-05	3.955	0.000	0.000	0.000
excluded_dummy_li	0.2825	0.032	8.826	0.000	0.220	0.345
fvp_lngdpcap_nonoilrent	-0.2851	0.032	-8.777	0.000	-0.349	-0.221
fvp_lngdpcap_oilrent	0.0858	0.007	11.527	0.000	0.071	0.100
fvp_grgdpcap_oilrent	-0.2094	0.038	-5.517	0.000	-0.284	-0.135
fvp_grgdpcap_nonoilrent	-0.5719	0.102	-5.631	0.000	-0.771	-0.373
ln_fvp_timeindep	0.3698	0.037	9.866	0.000	0.296	0.443
ln_fvp_timesincepreindepwar	-0.0546	0.037	-1.465	0.143	-0.128	0.018
ln_fvp_timesinceregimechange	-0.0625	0.017	-3.764	0.000	-0.095	-0.030
fvp_demo	-0.6540	0.057	-11.521	0.000	-0.765	-0.543
fvp_semi	-0.2744	0.039	-7.012	0.000	-0.351	-0.198
fvp_prop_excluded	0.0898	0.053	1.709	0.088	-0.013	0.193
ln_fvp_population200	-0.0206	0.023	-0.897	0.370	-0.066	0.024
ssp2_edu_sec_15_24_prop	0.8641	0.131	6.603	0.000	0.608	1.121
ssp2_urban_share_iiasa	0.0013	0.001	0.918	0.359	-0.001	0.004

4.2 ds_pgm_canon_nocm

4.2.1 sb_fcast

Dep. Variable:	ged_dummy_sb	**No. Observations:**	3768981
Model:	Logit	**Df Residuals:**	3768941
Method:	MLE	**Df Model:**	39
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.4180
Time:	22:18:19	**Log-Likelihood:**	-49606.
converged:	True	**LL-Null:**	-85235.

	coef	std err	z	P>|z|	[0.025	0.975]
Intercept	-9.3245	0.216	-43.132	0.000	-9.748	-8.901
l2_ged_dummy_sb	0.1620	0.030	5.325	0.000	0.102	0.222
l3_ged_dummy_sb	0.1596	0.031	5.162	0.000	0.099	0.220
l4_ged_dummy_sb	0.2004	0.031	6.414	0.000	0.139	0.262
l5_ged_dummy_sb	0.2220	0.032	6.956	0.000	0.159	0.284
l6_ged_dummy_sb	0.0556	0.033	1.662	0.097	-0.010	0.121
l7_ged_dummy_sb	0.2030	0.034	6.058	0.000	0.137	0.269
l8_ged_dummy_sb	0.2250	0.034	6.625	0.000	0.158	0.292
l9_ged_dummy_sb	0.2663	0.034	7.761	0.000	0.199	0.334
l10_ged_dummy_sb	0.2251	0.035	6.454	0.000	0.157	0.294
l11_ged_dummy_sb	0.2247	0.035	6.384	0.000	0.156	0.294
l12_ged_dummy_sb	0.2698	0.035	7.691	0.000	0.201	0.339
q_1_1_l2_ged_dummy_sb	0.1171	0.015	7.698	0.000	0.087	0.147
q_1_1_l3_ged_dummy_sb	0.0893	0.015	5.965	0.000	0.060	0.119
l1_ged_dummy_sb	0.1922	0.031	6.250	0.000	0.132	0.252
l1_ged_dummy_ns	0.4283	0.124	3.456	0.001	0.185	0.671
l1_ged_dummy_os	0.2569	0.047	5.429	0.000	0.164	0.350
decay_12_cw_ged_dummy_sb_0	4.1080	0.043	96.164	0.000	4.024	4.192
decay_12_cw_ged_dummy_ns_0	-0.4768	0.065	-7.378	0.000	-0.603	-0.350
decay_12_cw_ged_dummy_os_0	0.8861	0.044	20.210	0.000	0.800	0.972
q_1_1_l1_ged_dummy_sb	0.2811	0.015	18.989	0.000	0.252	0.310
q_1_1_l1_ged_dummy_ns	-0.1256	0.052	-2.423	0.015	-0.227	-0.024
q_1_1_l1_ged_dummy_os	0.0697	0.018	3.911	0.000	0.035	0.105
ln_dist_diamsec	0.2436	0.016	15.003	0.000	0.212	0.275
ln_dist_petroleum	-0.2107	0.016	-13.552	0.000	-0.241	-0.180
agri_ih_li	-0.0021	0.001	-2.277	0.023	-0.004	-0.000
barren_ih_li	-0.0041	0.001	-5.047	0.000	-0.006	-0.002
forest_ih_li	-0.0019	0.001	-2.365	0.018	-0.004	-0.000
mountains_mean	-0.0168	0.036	-0.469	0.639	-0.087	0.053
savanna_ih_li	-0.0042	0.001	-5.138	0.000	-0.006	-0.003
shrub_ih_li	0.0078	0.001	8.275	0.000	0.006	0.010
pasture_ih_li	0.0037	0.001	5.576	0.000	0.002	0.005
urban_ih_li	0.0410	0.008	4.862	0.000	0.024	0.058
ln_bdist3	-0.0784	0.008	-9.348	0.000	-0.095	-0.062
ln_ttime	-0.1332	0.021	-6.199	0.000	-0.175	-0.091
ln_capdist	0.0903	0.013	7.069	0.000	0.065	0.115
ln_pop	0.2095	0.011	19.323	0.000	0.188	0.231
gcp_li_mer	0.0096	0.011	0.836	0.403	-0.013	0.032
imr_mean	0.0006	3.3e-05	19.310	0.000	0.001	0.001
excluded_dummy_li	0.1949	0.021	9.192	0.000	0.153	0.236

4.2.2 ns_fcast

Dep. Variable:	ged_dummy_ns	**No. Observations:**	3768981
Model:	Logit	**Df Residuals:**	3768941
Method:	MLE	**Df Model:**	39
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.3540
Time:	22:18:24	**Log-Likelihood:**	-22022.
converged:	True	**LL-Null:**	-34090.

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
Intercept	-14.0470	0.380	-37.012	0.000	-14.791	-13.303
l2_ged_dummy_ns	0.3387	0.058	5.852	0.000	0.225	0.452
l3_ged_dummy_ns	0.2173	0.061	3.588	0.000	0.099	0.336
l4_ged_dummy_ns	0.1351	0.063	2.136	0.033	0.011	0.259
l5_ged_dummy_ns	0.3541	0.064	5.565	0.000	0.229	0.479
l6_ged_dummy_ns	0.2330	0.067	3.472	0.001	0.101	0.364
l7_ged_dummy_ns	0.2322	0.069	3.355	0.001	0.097	0.368
l8_ged_dummy_ns	0.1824	0.072	2.549	0.011	0.042	0.323
l9_ged_dummy_ns	0.3251	0.072	4.524	0.000	0.184	0.466
l10_ged_dummy_ns	0.2787	0.074	3.782	0.000	0.134	0.423
l11_ged_dummy_ns	0.2886	0.075	3.865	0.000	0.142	0.435
l12_ged_dummy_ns	0.3020	0.075	4.027	0.000	0.155	0.449
q_1_1_l2_ged_dummy_ns	0.1820	0.034	5.328	0.000	0.115	0.249
q_1_1_l3_ged_dummy_ns	0.0744	0.035	2.114	0.034	0.005	0.143
l1_ged_dummy_sb	0.1344	0.115	1.163	0.245	-0.092	0.361
l1_ged_dummy_ns	0.4543	0.058	7.860	0.000	0.341	0.568
l1_ged_dummy_os	0.4559	0.093	4.879	0.000	0.273	0.639
decay_12_cw_ged_dummy_sb_0	0.2288	0.092	2.494	0.013	0.049	0.409
decay_12_cw_ged_dummy_ns_0	4.2015	0.071	58.998	0.000	4.062	4.341
decay_12_cw_ged_dummy_os_0	0.4805	0.083	5.762	0.000	0.317	0.644
q_1_1_l1_ged_dummy_sb	-0.0568	0.039	-1.468	0.142	-0.133	0.019
q_1_1_l1_ged_dummy_ns	0.4784	0.033	14.654	0.000	0.414	0.542
q_1_1_l1_ged_dummy_os	0.1798	0.036	5.024	0.000	0.110	0.250
ln_dist_diamsec	0.2531	0.028	9.146	0.000	0.199	0.307
ln_dist_petroleum	0.3420	0.036	9.541	0.000	0.272	0.412
agri_ih_li	0.0086	0.002	5.709	0.000	0.006	0.012
barren_ih_li	-0.0024	0.001	-1.599	0.110	-0.005	0.001
forest_ih_li	-0.0002	0.001	-0.151	0.880	-0.003	0.003
mountains_mean	-0.3602	0.062	-5.797	0.000	-0.482	-0.238
savanna_ih_li	0.0027	0.001	1.890	0.059	-9.77e-05	0.005
shrub_ih_li	0.0173	0.002	10.552	0.000	0.014	0.021
pasture_ih_li	0.0070	0.001	5.553	0.000	0.005	0.009
urban_ih_li	0.0337	0.013	2.601	0.009	0.008	0.059
ln_bdist3	-0.0730	0.014	-5.248	0.000	-0.100	-0.046
ln_ttime	0.0854	0.035	2.425	0.015	0.016	0.154
ln_capdist	0.1703	0.022	7.758	0.000	0.127	0.213
ln_pop	0.3441	0.019	18.524	0.000	0.308	0.381
gcp_li_mer	-0.0403	0.022	-1.821	0.069	-0.084	0.003
imr_mean	-0.0002	5.79e-05	-4.243	0.000	-0.000	-0.000
excluded_dummy_li	0.1553	0.035	4.435	0.000	0.087	0.224

4.2.3 os_fcast

Dep. Variable:	ged_dummy_os	**No. Observations:**	3768981
Model:	Logit	**Df Residuals:**	3768941
Method:	MLE	**Df Model:**	39
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.3865
Time:	22:18:25	**Log-Likelihood:**	-36743.
converged:	True	**LL-Null:**	-59891.

	coef	std err	z	P>|z|	[0.025	0.975]
Intercept	-10.8496	0.284	-38.191	0.000	-11.406	-10.293
l2_ged_dummy_os	0.1246	0.040	3.138	0.002	0.047	0.202
l3_ged_dummy_os	0.1615	0.040	3.998	0.000	0.082	0.241
l4_ged_dummy_os	0.1268	0.041	3.078	0.002	0.046	0.208
l5_ged_dummy_os	0.1531	0.042	3.631	0.000	0.070	0.236
l6_ged_dummy_os	0.1852	0.043	4.308	0.000	0.101	0.270
l7_ged_dummy_os	0.1542	0.044	3.484	0.000	0.067	0.241
l8_ged_dummy_os	0.0722	0.046	1.575	0.115	-0.018	0.162
l9_ged_dummy_os	0.1340	0.046	2.888	0.004	0.043	0.225
l10_ged_dummy_os	0.0136	0.048	0.284	0.777	-0.080	0.108
l11_ged_dummy_os	0.1323	0.048	2.765	0.006	0.039	0.226
l12_ged_dummy_os	0.2950	0.047	6.318	0.000	0.203	0.387
q_1_1_l2_ged_dummy_os	0.1055	0.019	5.514	0.000	0.068	0.143
q_1_1_l3_ged_dummy_os	0.0485	0.019	2.601	0.009	0.012	0.085
l1_ged_dummy_sb	0.2372	0.048	4.953	0.000	0.143	0.331
l1_ged_dummy_ns	0.6061	0.092	6.610	0.000	0.426	0.786
l1_ged_dummy_os	0.4016	0.040	10.078	0.000	0.323	0.480
decay_12_cw_ged_dummy_sb_0	1.2783	0.052	24.515	0.000	1.176	1.380
decay_12_cw_ged_dummy_ns_0	0.0774	0.062	1.250	0.211	-0.044	0.199
decay_12_cw_ged_dummy_os_0	3.5255	0.056	63.181	0.000	3.416	3.635
q_1_1_l1_ged_dummy_sb	0.0338	0.017	1.941	0.052	-0.000	0.068
q_1_1_l1_ged_dummy_ns	0.1460	0.033	4.484	0.000	0.082	0.210
q_1_1_l1_ged_dummy_os	0.3449	0.018	18.913	0.000	0.309	0.381
ln_dist_diamsec	-0.1191	0.018	-6.452	0.000	-0.155	-0.083
ln_dist_petroleum	0.2518	0.023	10.786	0.000	0.206	0.298
agri_ih_li	0.0010	0.001	0.904	0.366	-0.001	0.003
barren_ih_li	-0.0053	0.001	-4.536	0.000	-0.008	-0.003
forest_ih_li	0.0011	0.001	1.195	0.232	-0.001	0.003
mountains_mean	-0.2042	0.044	-4.611	0.000	-0.291	-0.117
savanna_ih_li	0.0059	0.001	6.853	0.000	0.004	0.008
shrub_ih_li	0.0035	0.002	2.261	0.024	0.000	0.007
pasture_ih_li	0.0015	0.001	1.754	0.079	-0.000	0.003
urban_ih_li	0.0450	0.009	4.889	0.000	0.027	0.063
ln_bdist3	-0.0736	0.010	-7.341	0.000	-0.093	-0.054
ln_ttime	-0.1563	0.027	-5.717	0.000	-0.210	-0.103
ln_capdist	0.1061	0.013	8.059	0.000	0.080	0.132
ln_pop	0.3028	0.014	21.314	0.000	0.275	0.331
gcp_li_mer	0.0479	0.014	3.383	0.001	0.020	0.076
imr_mean	0.0004	4.32e-05	8.727	0.000	0.000	0.000
excluded_dummy_li	0.3135	0.025	12.323	0.000	0.264	0.363

4.2.4 sb_eval

Dep. Variable:	ged_dummy_sb	**No. Observations:**	3331224
Model:	Logit	**Df Residuals:**	3331184
Method:	MLE	**Df Model:**	39
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.4082
Time:	22:14:06	**Log-Likelihood:**	-41172.
converged:	True	**LL-Null:**	-69565.

	coef	std err	z	P>|z|	[0.025	0.975]
Intercept	-9.3483	0.241	-38.770	0.000	-9.821	-8.876
l2_ged_dummy_sb	0.1416	0.034	4.134	0.000	0.074	0.209
l3_ged_dummy_sb	0.1854	0.035	5.345	0.000	0.117	0.253
l4_ged_dummy_sb	0.2078	0.035	5.918	0.000	0.139	0.277
l5_ged_dummy_sb	0.2182	0.036	6.076	0.000	0.148	0.289
l6_ged_dummy_sb	0.0531	0.038	1.409	0.159	-0.021	0.127
l7_ged_dummy_sb	0.1737	0.038	4.580	0.000	0.099	0.248
l8_ged_dummy_sb	0.2615	0.038	6.852	0.000	0.187	0.336
l9_ged_dummy_sb	0.2958	0.039	7.667	0.000	0.220	0.371
l10_ged_dummy_sb	0.2324	0.039	5.900	0.000	0.155	0.310
l11_ged_dummy_sb	0.2440	0.040	6.132	0.000	0.166	0.322
l12_ged_dummy_sb	0.2399	0.040	6.022	0.000	0.162	0.318
q_1_1_l2_ged_dummy_sb	0.1110	0.018	6.322	0.000	0.077	0.145
q_1_1_l3_ged_dummy_sb	0.1136	0.017	6.610	0.000	0.080	0.147
l1_ged_dummy_sb	0.2520	0.034	7.317	0.000	0.184	0.319
l1_ged_dummy_ns	0.5831	0.148	3.934	0.000	0.293	0.874
l1_ged_dummy_os	0.3174	0.054	5.893	0.000	0.212	0.423
decay_12_cw_ged_dummy_sb_0	4.1139	0.048	86.331	0.000	4.021	4.207
decay_12_cw_ged_dummy_ns_0	-0.5314	0.074	-7.182	0.000	-0.676	-0.386
decay_12_cw_ged_dummy_os_0	0.8548	0.050	17.235	0.000	0.758	0.952
q_1_1_l1_ged_dummy_sb	0.2864	0.017	16.878	0.000	0.253	0.320
q_1_1_l1_ged_dummy_ns	-0.2036	0.070	-2.918	0.004	-0.340	-0.067
q_1_1_l1_ged_dummy_os	0.0670	0.020	3.320	0.001	0.027	0.107
ln_dist_diamsec	0.2125	0.018	11.829	0.000	0.177	0.248
ln_dist_petroleum	-0.2218	0.017	-13.242	0.000	-0.255	-0.189
agri_ih_li	-0.0025	0.001	-2.442	0.015	-0.005	-0.001
barren_ih_li	-0.0062	0.001	-6.854	0.000	-0.008	-0.004
forest_ih_li	-0.0035	0.001	-3.862	0.000	-0.005	-0.002
mountains_mean	0.0085	0.039	0.217	0.828	-0.068	0.085
savanna_ih_li	-0.0066	0.001	-7.145	0.000	-0.008	-0.005
shrub_ih_li	0.0071	0.001	6.818	0.000	0.005	0.009
pasture_ih_li	0.0027	0.001	3.715	0.000	0.001	0.004
urban_ih_li	0.0479	0.011	4.552	0.000	0.027	0.069
ln_bdist3	-0.0665	0.009	-7.165	0.000	-0.085	-0.048
ln_ttime	-0.1298	0.024	-5.434	0.000	-0.177	-0.083
ln_capdist	0.0996	0.014	6.919	0.000	0.071	0.128
ln_pop	0.2113	0.012	17.445	0.000	0.188	0.235
gcp_li_mer	0.0108	0.013	0.814	0.416	-0.015	0.037
imr_mean	0.0006	3.65e-05	17.675	0.000	0.001	0.001
excluded_dummy_li	0.2267	0.024	9.553	0.000	0.180	0.273

4.2.5 ns_eval

Dep. Variable:	ged_dummy_ns	**No. Observations:**	3331224
Model:	Logit	**Df Residuals:**	3331184
Method:	MLE	**Df Model:**	39
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.3654
Time:	22:14:13	**Log-Likelihood:**	-16584.
converged:	True	**LL-Null:**	-26132.

	coef	std err	z	P>|z|	[0.025	0.975]
Intercept	-15.8242	0.454	-34.818	0.000	-16.715	-14.933
l2_ged_dummy_ns	0.3748	0.067	5.580	0.000	0.243	0.506
l3_ged_dummy_ns	0.2464	0.070	3.513	0.000	0.109	0.384
l4_ged_dummy_ns	0.2014	0.073	2.771	0.006	0.059	0.344
l5_ged_dummy_ns	0.3097	0.074	4.173	0.000	0.164	0.455
l6_ged_dummy_ns	0.1734	0.079	2.209	0.027	0.020	0.327
l7_ged_dummy_ns	0.1927	0.081	2.385	0.017	0.034	0.351
l8_ged_dummy_ns	0.1141	0.084	1.361	0.173	-0.050	0.278
l9_ged_dummy_ns	0.3655	0.082	4.435	0.000	0.204	0.527
l10_ged_dummy_ns	0.3213	0.085	3.796	0.000	0.155	0.487
l11_ged_dummy_ns	0.2146	0.088	2.451	0.014	0.043	0.386
l12_ged_dummy_ns	0.2486	0.088	2.830	0.005	0.076	0.421
q_1_1_l2_ged_dummy_ns	0.1488	0.042	3.516	0.000	0.066	0.232
q_1_1_l3_ged_dummy_ns	0.0802	0.043	1.878	0.060	-0.004	0.164
l1_ged_dummy_sb	0.3048	0.139	2.185	0.029	0.031	0.578
l1_ged_dummy_ns	0.4819	0.067	7.174	0.000	0.350	0.613
l1_ged_dummy_os	0.5598	0.111	5.050	0.000	0.343	0.777
decay_12_cw_ged_dummy_sb_0	0.0436	0.110	0.396	0.692	-0.172	0.259
decay_12_cw_ged_dummy_ns_0	4.1710	0.082	51.044	0.000	4.011	4.331
decay_12_cw_ged_dummy_os_0	0.3675	0.098	3.740	0.000	0.175	0.560
q_1_1_l1_ged_dummy_sb	-0.0787	0.054	-1.451	0.147	-0.185	0.028
q_1_1_l1_ged_dummy_ns	0.5173	0.040	12.903	0.000	0.439	0.596
q_1_1_l1_ged_dummy_os	0.2083	0.042	4.966	0.000	0.126	0.291
ln_dist_diamsec	0.2668	0.032	8.274	0.000	0.204	0.330
ln_dist_petroleum	0.5728	0.045	12.669	0.000	0.484	0.661
agri_ih_li	0.0114	0.002	6.439	0.000	0.008	0.015
barren_ih_li	0.0008	0.002	0.469	0.639	-0.003	0.004
forest_ih_li	0.0036	0.002	2.102	0.036	0.000	0.007
mountains_mean	-0.2751	0.071	-3.862	0.000	-0.415	-0.135
savanna_ih_li	0.0028	0.002	1.624	0.104	-0.001	0.006
shrub_ih_li	0.0217	0.002	11.351	0.000	0.018	0.025
pasture_ih_li	0.0114	0.001	7.783	0.000	0.009	0.014
urban_ih_li	0.0399	0.014	2.813	0.005	0.012	0.068
ln_bdist3	-0.1032	0.016	-6.514	0.000	-0.134	-0.072
ln_ttime	0.1253	0.041	3.086	0.002	0.046	0.205
ln_capdist	0.1473	0.025	5.995	0.000	0.099	0.195
ln_pop	0.4000	0.022	18.089	0.000	0.357	0.443
gcp_li_mer	0.0104	0.024	0.431	0.667	-0.037	0.058
imr_mean	-0.0002	6.74e-05	-2.350	0.019	-0.000	-2.63e-05
excluded_dummy_li	0.2925	0.041	7.175	0.000	0.213	0.372

4.2.6 os_eval

Dep. Variable:	ged_dummy_os	**No. Observations:**	3331224
Model:	Logit	**Df Residuals:**	3331184
Method:	MLE	**Df Model:**	39
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.3838
Time:	22:14:11	**Log-Likelihood:**	-30008.
converged:	True	**LL-Null:**	-48697.

	coef	std err	z	P>|z|	[0.025	0.975]
Intercept	-10.6508	0.315	-33.802	0.000	-11.268	-10.033
l2_ged_dummy_os	0.1150	0.045	2.570	0.010	0.027	0.203
l3_ged_dummy_os	0.1332	0.046	2.920	0.004	0.044	0.223
l4_ged_dummy_os	0.1323	0.046	2.856	0.004	0.042	0.223
l5_ged_dummy_os	0.1047	0.048	2.197	0.028	0.011	0.198
l6_ged_dummy_os	0.1727	0.048	3.565	0.000	0.078	0.268
l7_ged_dummy_os	0.1481	0.050	2.981	0.003	0.051	0.246
l8_ged_dummy_os	0.1009	0.051	1.971	0.049	0.001	0.201
l9_ged_dummy_os	0.1542	0.052	2.963	0.003	0.052	0.256
l10_ged_dummy_os	0.0461	0.054	0.856	0.392	-0.059	0.151
l11_ged_dummy_os	0.1214	0.054	2.248	0.025	0.016	0.227
l12_ged_dummy_os	0.3284	0.052	6.258	0.000	0.226	0.431
q_1_1_l2_ged_dummy_os	0.0908	0.021	4.227	0.000	0.049	0.133
q_1_1_l3_ged_dummy_os	0.0550	0.021	2.624	0.009	0.014	0.096
l1_ged_dummy_sb	0.2430	0.055	4.448	0.000	0.136	0.350
l1_ged_dummy_ns	0.7096	0.106	6.706	0.000	0.502	0.917
l1_ged_dummy_os	0.4097	0.045	9.135	0.000	0.322	0.498
decay_12_cw_ged_dummy_sb_0	1.2916	0.059	22.043	0.000	1.177	1.406
decay_12_cw_ged_dummy_ns_0	0.0407	0.070	0.577	0.564	-0.097	0.179
decay_12_cw_ged_dummy_os_0	3.5783	0.063	56.702	0.000	3.455	3.702
q_1_1_l1_ged_dummy_sb	0.0516	0.021	2.486	0.013	0.011	0.092
q_1_1_l1_ged_dummy_ns	0.1203	0.038	3.163	0.002	0.046	0.195
q_1_1_l1_ged_dummy_os	0.3639	0.020	17.788	0.000	0.324	0.404
ln_dist_diamsec	-0.1708	0.020	-8.333	0.000	-0.211	-0.131
ln_dist_petroleum	0.2261	0.025	9.028	0.000	0.177	0.275
agri_ih_li	0.0021	0.001	1.666	0.096	-0.000	0.005
barren_ih_li	-0.0056	0.001	-4.236	0.000	-0.008	-0.003
forest_ih_li	0.0019	0.001	1.924	0.054	-3.64e-05	0.004
mountains_mean	-0.1926	0.049	-3.913	0.000	-0.289	-0.096
savanna_ih_li	0.0051	0.001	5.205	0.000	0.003	0.007
shrub_ih_li	0.0029	0.002	1.657	0.098	-0.001	0.006
pasture_ih_li	0.0019	0.001	1.962	0.050	1.67e-06	0.004
urban_ih_li	0.0505	0.011	4.657	0.000	0.029	0.072
ln_bdist3	-0.0784	0.011	-7.048	0.000	-0.100	-0.057
ln_ttime	-0.1926	0.030	-6.321	0.000	-0.252	-0.133
ln_capdist	0.1396	0.015	9.437	0.000	0.111	0.169
ln_pop	0.2928	0.016	18.585	0.000	0.262	0.324
gcp_li_mer	0.0567	0.016	3.545	0.000	0.025	0.088
imr_mean	0.0003	4.76e-05	6.977	0.000	0.000	0.000
excluded_dummy_li	0.3476	0.028	12.208	0.000	0.292	0.403

4.3 ds_pgm_acled_wcm

4.3.1 sb_fcast

Dep. Variable:	ged_dummy_sb	**No. Observations:**	2872113
Model:	Logit	**Df Residuals:**	2872057
Method:	MLE	**Df Model:**	55
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.4333
Time:	22:21:54	**Log-Likelihood:**	-38915.
converged:	True	**LL-Null:**	-68671.

	coef	std err	z	P>|z|	[0.025	0.975]
Intercept	-8.3041	0.360	-23.038	0.000	-9.011	-7.598
l2_ged_dummy_sb	0.1217	0.033	3.634	0.000	0.056	0.187
l3_ged_dummy_sb	0.1050	0.034	3.080	0.002	0.038	0.172
l4_ged_dummy_sb	0.1518	0.034	4.414	0.000	0.084	0.219
l5_ged_dummy_sb	0.1652	0.035	4.702	0.000	0.096	0.234
l6_ged_dummy_sb	0.0454	0.037	1.244	0.214	-0.026	0.117
l7_ged_dummy_sb	0.1673	0.037	4.565	0.000	0.095	0.239
l8_ged_dummy_sb	0.2062	0.037	5.567	0.000	0.134	0.279
l9_ged_dummy_sb	0.2320	0.037	6.190	0.000	0.159	0.305
l10_ged_dummy_sb	0.1666	0.038	4.357	0.000	0.092	0.242
l11_ged_dummy_sb	0.2074	0.038	5.404	0.000	0.132	0.283
l12_ged_dummy_sb	0.2380	0.038	6.219	0.000	0.163	0.313
q_1_1_l2_ged_dummy_sb	0.1234	0.016	7.533	0.000	0.091	0.156
q_1_1_l3_ged_dummy_sb	0.0715	0.016	4.413	0.000	0.040	0.103
l1_ged_dummy_sb	0.1765	0.034	5.220	0.000	0.110	0.243
l1_ged_dummy_ns	-0.1953	0.131	-1.495	0.135	-0.451	0.061
l1_ged_dummy_os	0.1248	0.050	2.490	0.013	0.027	0.223
l1_acled_dummy_pr	0.0185	0.066	0.280	0.779	-0.111	0.148
decay_12_cw_ged_dummy_sb_0	3.8396	0.047	82.290	0.000	3.748	3.931
decay_12_cw_ged_dummy_ns_0	0.1957	0.073	2.688	0.007	0.053	0.338
decay_12_cw_ged_dummy_os_0	1.1035	0.047	23.350	0.000	1.011	1.196
decay_12_cw_acled_dummy_pr_0	0.3445	0.050	6.898	0.000	0.247	0.442
q_1_1_l1_ged_dummy_sb	0.2637	0.016	16.493	0.000	0.232	0.295
q_1_1_l1_ged_dummy_ns	-0.1245	0.054	-2.315	0.021	-0.230	-0.019
q_1_1_l1_ged_dummy_os	0.0832	0.019	4.306	0.000	0.045	0.121
q_1_1_l1_acled_dummy_pr	-0.0308	0.024	-1.282	0.200	-0.078	0.016
ln_dist_diamsec	0.3300	0.021	15.903	0.000	0.289	0.371
ln_dist_petroleum	-0.0567	0.023	-2.441	0.015	-0.102	-0.011
agri_ih_li	-0.0016	0.001	-1.479	0.139	-0.004	0.001
barren_ih_li	-0.0036	0.001	-3.725	0.000	-0.005	-0.002
forest_ih_li	1.537e-06	0.001	0.002	0.999	-0.002	0.002
mountains_mean	-0.1422	0.044	-3.243	0.001	-0.228	-0.056
savanna_ih_li	0.0008	0.001	0.833	0.405	-0.001	0.003
shrub_ih_li	0.0125	0.001	11.068	0.000	0.010	0.015
pasture_ih_li	0.0033	0.001	4.119	0.000	0.002	0.005
urban_ih_li	0.0080	0.010	0.812	0.417	-0.011	0.027
ln_bdist3	-0.0917	0.010	-9.144	0.000	-0.111	-0.072
ln_ttime	-0.1583	0.025	-6.414	0.000	-0.207	-0.110
ln_capdist	0.0771	0.017	4.455	0.000	0.043	0.111
ln_pop	0.1685	0.013	12.511	0.000	0.142	0.195
gcp_li_mer	0.0870	0.013	6.811	0.000	0.062	0.112
imr_mean	0.0006	4.98e-05	11.623	0.000	0.000	0.001
excluded_dummy_li	0.0774	0.026	2.989	0.003	0.027	0.128
fvp_lngdpcap_nonoilrent	-0.1107	0.028	-4.007	0.000	-0.165	-0.057
fvp_lngdpcap_oilrent	0.0680	0.007	10.187	0.000	0.055	0.081
fvp_grgdpcap_oilrent	-0.1223	0.028	-4.358	0.000	-0.177	-0.067
fvp_grgdpcap_nonoilrent	-0.3129	0.084	-3.728	0.000	-0.477	-0.148
ln_fvp_timeindep	0.0402	0.043	0.943	0.346	-0.043	0.124
ln_fvp_timesincepreindepwar	0.0041	0.034	0.121	0.904	-0.063	0.071
ln_fvp_timesinceregimechange	-0.0929	0.013	-7.125	0.000	-0.118	-0.067
fvp_demo	-0.5128	0.047	-10.848	0.000	-0.605	-0.420
fvp_semi	-0.2098	0.038	-5.477	0.000	-0.285	-0.135
fvp_prop_excluded	0.1691	0.054	3.147	0.002	0.064	0.274
ln_fvp_population200	0.0324	0.017	1.923	0.055	-0.001	0.065
ssp2_edu_sec_15_24_prop	-0.1745	0.102	-1.718	0.086	-0.374	0.025
ssp2_urban_share_iiasa	-8.186e-05	0.001	-0.066	0.948	-0.003	0.002

4.3.2 ns_fcast

Dep. Variable:	ged_dummy_ns	**No. Observations:**	2872113
Model:	Logit	**Df Residuals:**	2872057
Method:	MLE	**Df Model:**	55
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.3273
Time:	22:22:16	**Log-Likelihood:**	-17759.
converged:	True	**LL-Null:**	-26398.

	coef	std err	z	P>|z|	[0.025	0.975]
Intercept	-11.9591	0.580	-20.627	0.000	-13.096	-10.823
l2_ged_dummy_ns	0.1765	0.065	2.697	0.007	0.048	0.305
l3_ged_dummy_ns	0.1086	0.068	1.601	0.109	-0.024	0.242
l4_ged_dummy_ns	0.0307	0.071	0.434	0.665	-0.108	0.169
l5_ged_dummy_ns	0.2426	0.071	3.409	0.001	0.103	0.382
l6_ged_dummy_ns	0.1942	0.074	2.611	0.009	0.048	0.340
l7_ged_dummy_ns	0.1677	0.077	2.179	0.029	0.017	0.319
l8_ged_dummy_ns	0.1182	0.080	1.478	0.139	-0.038	0.275
l9_ged_dummy_ns	0.3504	0.079	4.443	0.000	0.196	0.505
l10_ged_dummy_ns	0.3311	0.081	4.107	0.000	0.173	0.489
l11_ged_dummy_ns	0.2110	0.084	2.518	0.012	0.047	0.375
l12_ged_dummy_ns	0.2608	0.084	3.107	0.002	0.096	0.425
q_1_1_l2_ged_dummy_ns	0.2313	0.039	5.937	0.000	0.155	0.308
q_1_1_l3_ged_dummy_ns	0.1522	0.041	3.752	0.000	0.073	0.232
l1_ged_dummy_sb	-0.3220	0.117	-2.760	0.006	-0.551	-0.093
l1_ged_dummy_ns	0.3810	0.065	5.820	0.000	0.253	0.509
l1_ged_dummy_os	0.1155	0.101	1.142	0.253	-0.083	0.314
l1_acled_dummy_pr	0.0195	0.084	0.233	0.816	-0.144	0.183
decay_12_cw_ged_dummy_sb_0	0.7126	0.091	7.842	0.000	0.535	0.891
decay_12_cw_ged_dummy_ns_0	3.9436	0.080	49.227	0.000	3.787	4.101
decay_12_cw_ged_dummy_os_0	0.7859	0.088	8.956	0.000	0.614	0.958
decay_12_cw_acled_dummy_pr_0	0.7278	0.075	9.704	0.000	0.581	0.875
q_1_1_l1_ged_dummy_sb	-0.1235	0.040	-3.085	0.002	-0.202	-0.045
q_1_1_l1_ged_dummy_ns	0.5187	0.037	14.076	0.000	0.446	0.591
q_1_1_l1_ged_dummy_os	0.1236	0.040	3.094	0.002	0.045	0.202
q_1_1_l1_acled_dummy_pr	0.0170	0.030	0.575	0.565	-0.041	0.075
ln_dist_diamsec	0.4080	0.037	11.014	0.000	0.335	0.481
ln_dist_petroleum	0.4783	0.048	9.883	0.000	0.383	0.573
agri_ih_li	0.0048	0.002	2.536	0.011	0.001	0.008
barren_ih_li	-0.0065	0.002	-3.821	0.000	-0.010	-0.003
forest_ih_li	-0.0049	0.002	-2.684	0.007	-0.008	-0.001
mountains_mean	-0.2535	0.077	-3.286	0.001	-0.405	-0.102
savanna_ih_li	0.0065	0.002	3.935	0.000	0.003	0.010
shrub_ih_li	0.0181	0.002	9.375	0.000	0.014	0.022
pasture_ih_li	0.0035	0.002	2.321	0.020	0.001	0.006
urban_ih_li	0.0172	0.015	1.141	0.254	-0.012	0.047
ln_bdist3	-0.0535	0.016	-3.243	0.001	-0.086	-0.021
ln_ttime	0.0684	0.041	1.684	0.092	-0.011	0.148
ln_capdist	0.1222	0.028	4.331	0.000	0.067	0.177
ln_pop	0.1937	0.022	8.847	0.000	0.151	0.237
gcp_li_mer	0.0413	0.026	1.574	0.116	-0.010	0.093
imr_mean	-0.0002	8.19e-05	-2.620	0.009	-0.000	-5.41e-05
excluded_dummy_li	0.1534	0.041	3.707	0.000	0.072	0.234
fvp_lngdpcap_nonoilrent	-0.1261	0.042	-2.980	0.003	-0.209	-0.043
fvp_lngdpcap_oilrent	0.1045	0.010	10.244	0.000	0.084	0.124
fvp_grgdpcap_oilrent	-0.2238	0.044	-5.032	0.000	-0.311	-0.137
fvp_grgdpcap_nonoilrent	-0.3300	0.126	-2.621	0.009	-0.577	-0.083
ln_fvp_timeindep	-0.1777	0.069	-2.568	0.010	-0.313	-0.042
ln_fvp_timesincepreindepwar	0.3935	0.059	6.663	0.000	0.278	0.509
ln_fvp_timesinceregimechange	-0.1431	0.019	-7.405	0.000	-0.181	-0.105
fvp_demo	-0.4085	0.070	-5.815	0.000	-0.546	-0.271
fvp_semi	-0.1432	0.063	-2.266	0.023	-0.267	-0.019
fvp_prop_excluded	-0.9566	0.109	-8.806	0.000	-1.170	-0.744
ln_fvp_population200	-0.0311	0.026	-1.218	0.223	-0.081	0.019
ssp2_edu_sec_15_24_prop	0.7235	0.150	4.809	0.000	0.429	1.018
ssp2_urban_share_iiasa	-0.0030	0.002	-1.444	0.149	-0.007	0.001

4.3.3 os_fcast

Dep. Variable:	ged_dummy_os	**No. Observations:**	2872113
Model:	Logit	**Df Residuals:**	2872057
Method:	MLE	**Df Model:**	55
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.4059
Time:	22:22:16	**Log-Likelihood:**	-28269.
converged:	True	**LL-Null:**	-47583.

	coef	std err	z	P>|z|	[0.025	0.975]
Intercept	-7.4685	0.432	-17.269	0.000	-8.316	-6.621
l2_ged_dummy_os	0.0990	0.044	2.263	0.024	0.013	0.185
l3_ged_dummy_os	0.1399	0.044	3.149	0.002	0.053	0.227
l4_ged_dummy_os	0.1035	0.045	2.287	0.022	0.015	0.192
l5_ged_dummy_os	0.0932	0.046	2.009	0.044	0.002	0.184
l6_ged_dummy_os	0.1642	0.047	3.490	0.000	0.072	0.256
l7_ged_dummy_os	0.1556	0.048	3.230	0.001	0.061	0.250
l8_ged_dummy_os	0.0361	0.050	0.722	0.470	-0.062	0.134
l9_ged_dummy_os	0.0640	0.051	1.260	0.208	-0.036	0.163
l10_ged_dummy_os	-0.0164	0.052	-0.314	0.753	-0.119	0.086
l11_ged_dummy_os	0.1176	0.052	2.264	0.024	0.016	0.219
l12_ged_dummy_os	0.2300	0.051	4.515	0.000	0.130	0.330
q_1_1_l2_ged_dummy_os	0.1236	0.021	5.878	0.000	0.082	0.165
q_1_1_l3_ged_dummy_os	0.0507	0.020	2.476	0.013	0.011	0.091
l1_ged_dummy_sb	0.0782	0.051	1.544	0.123	-0.021	0.177
l1_ged_dummy_ns	0.1999	0.106	1.883	0.060	-0.008	0.408
l1_ged_dummy_os	0.4253	0.044	9.687	0.000	0.339	0.511
l1_acled_dummy_pr	0.1890	0.066	2.870	0.004	0.060	0.318
decay_12_cw_ged_dummy_sb_0	1.5425	0.056	27.774	0.000	1.434	1.651
decay_12_cw_ged_dummy_ns_0	0.5802	0.070	8.294	0.000	0.443	0.717
decay_12_cw_ged_dummy_os_0	3.1077	0.061	51.255	0.000	2.989	3.227
decay_12_cw_acled_dummy_pr_0	0.7160	0.057	12.591	0.000	0.605	0.827
q_1_1_l1_ged_dummy_sb	0.0415	0.018	2.243	0.025	0.005	0.078
q_1_1_l1_ged_dummy_ns	0.0985	0.043	2.271	0.023	0.013	0.183
q_1_1_l1_ged_dummy_os	0.3430	0.020	16.970	0.000	0.303	0.383
q_1_1_l1_acled_dummy_pr	0.0268	0.025	1.093	0.274	-0.021	0.075
ln_dist_diamsec	-0.0208	0.024	-0.881	0.378	-0.067	0.026
ln_dist_petroleum	0.2739	0.032	8.498	0.000	0.211	0.337
agri_ih_li	0.0032	0.001	2.502	0.012	0.001	0.006
barren_ih_li	-0.0104	0.001	-7.628	0.000	-0.013	-0.008
forest_ih_li	0.0008	0.001	0.717	0.473	-0.001	0.003
mountains_mean	-0.3107	0.055	-5.692	0.000	-0.418	-0.204
savanna_ih_li	0.0082	0.001	8.203	0.000	0.006	0.010
shrub_ih_li	0.0025	0.002	1.363	0.173	-0.001	0.006
pasture_ih_li	-0.0029	0.001	-2.919	0.004	-0.005	-0.001
urban_ih_li	0.0109	0.011	0.959	0.338	-0.011	0.033
ln_bdist3	-0.0647	0.012	-5.375	0.000	-0.088	-0.041
ln_ttime	-0.1396	0.032	-4.389	0.000	-0.202	-0.077
ln_capdist	0.1356	0.020	6.866	0.000	0.097	0.174
ln_pop	0.2058	0.017	11.793	0.000	0.172	0.240
gcp_li_mer	0.1283	0.017	7.741	0.000	0.096	0.161
imr_mean	0.0002	5.87e-05	3.380	0.001	8.34e-05	0.000
excluded_dummy_li	0.0864	0.032	2.722	0.006	0.024	0.149
fvp_lngdpcap_nonoilrent	-0.2947	0.032	-9.153	0.000	-0.358	-0.232
fvp_lngdpcap_oilrent	0.0829	0.008	10.049	0.000	0.067	0.099
fvp_grgdpcap_oilrent	-0.2140	0.035	-6.142	0.000	-0.282	-0.146
fvp_grgdpcap_nonoilrent	-0.2422	0.097	-2.496	0.013	-0.432	-0.052
ln_fvp_timeindep	-0.0067	0.051	-0.132	0.895	-0.107	0.093
ln_fvp_timesincepreindepwar	0.0822	0.041	2.002	0.045	0.002	0.163
ln_fvp_timesinceregimechange	-0.0847	0.015	-5.547	0.000	-0.115	-0.055
fvp_demo	-0.7682	0.055	-13.858	0.000	-0.877	-0.660
fvp_semi	-0.2678	0.045	-5.941	0.000	-0.356	-0.179
fvp_prop_excluded	0.1518	0.061	2.488	0.013	0.032	0.271
ln_fvp_population200	-0.0108	0.020	-0.533	0.594	-0.051	0.029
ssp2_edu_sec_15_24_prop	1.842e-06	0.118	1.56e-05	1.000	-0.232	0.232
ssp2_urban_share_iiasa	-0.0001	0.001	-0.099	0.921	-0.003	0.003

4.3.4 pr_fcast

Dep. Variable:	acled_dummy_pr	**No. Observations:**	2872113
Model:	Logit	**Df Residuals:**	2872057
Method:	MLE	**Df Model:**	55
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.4689
Time:	22:22:03	**Log-Likelihood:**	-75591.
converged:	True	**LL-Null:**	-1.4234e+05

	coef	std err	z	P>|z|	[0.025	0.975]
Intercept	-7.4518	0.224	-33.250	0.000	-7.891	-7.013
l2_acled_dummy_pr	0.2069	0.022	9.497	0.000	0.164	0.250
l3_acled_dummy_pr	0.2086	0.022	9.460	0.000	0.165	0.252
l4_acled_dummy_pr	0.2404	0.022	10.871	0.000	0.197	0.284
l5_acled_dummy_pr	0.2091	0.023	9.265	0.000	0.165	0.253
l6_acled_dummy_pr	0.2041	0.023	8.878	0.000	0.159	0.249
l7_acled_dummy_pr	0.2521	0.023	10.863	0.000	0.207	0.298
l8_acled_dummy_pr	0.2808	0.023	11.995	0.000	0.235	0.327
l9_acled_dummy_pr	0.2396	0.024	10.088	0.000	0.193	0.286
l10_acled_dummy_pr	0.2111	0.024	8.769	0.000	0.164	0.258
l11_acled_dummy_pr	0.2942	0.024	12.271	0.000	0.247	0.341
l12_acled_dummy_pr	0.4099	0.024	17.323	0.000	0.363	0.456
q_1_1_l2_acled_dummy_pr	0.0101	0.011	0.901	0.367	-0.012	0.032
q_1_1_l3_acled_dummy_pr	0.0047	0.011	0.435	0.664	-0.017	0.026
l1_ged_dummy_sb	-0.2059	0.067	-3.077	0.002	-0.337	-0.075
l1_ged_dummy_ns	0.1425	0.090	1.581	0.114	-0.034	0.319
l1_ged_dummy_os	-0.0206	0.069	-0.298	0.766	-0.156	0.115
l1_acled_dummy_pr	0.3143	0.022	14.389	0.000	0.271	0.357
decay_12_cw_ged_dummy_sb_0	0.4781	0.048	10.040	0.000	0.385	0.571
decay_12_cw_ged_dummy_ns_0	0.3879	0.055	7.093	0.000	0.281	0.495
decay_12_cw_ged_dummy_os_0	0.3572	0.048	7.488	0.000	0.264	0.451
decay_12_cw_acled_dummy_pr_0	3.1421	0.032	98.993	0.000	3.080	3.204
q_1_1_l1_ged_dummy_sb	-0.1585	0.027	-5.982	0.000	-0.210	-0.107
q_1_1_l1_ged_dummy_ns	-0.0468	0.037	-1.270	0.204	-0.119	0.025
q_1_1_l1_ged_dummy_os	-0.0083	0.028	-0.292	0.770	-0.064	0.048
q_1_1_l1_acled_dummy_pr	0.1990	0.010	19.098	0.000	0.179	0.219
ln_dist_diamsec	0.1365	0.013	10.591	0.000	0.111	0.162
ln_dist_petroleum	0.1136	0.017	6.803	0.000	0.081	0.146
agri_ih_li	-0.0001	0.001	-0.229	0.819	-0.001	0.001
barren_ih_li	0.0013	0.001	2.215	0.027	0.000	0.002
forest_ih_li	0.0010	0.001	1.518	0.129	-0.000	0.002
mountains_mean	0.0392	0.029	1.347	0.178	-0.018	0.096
savanna_ih_li	0.0018	0.001	2.806	0.005	0.001	0.003
shrub_ih_li	0.0067	0.001	7.609	0.000	0.005	0.008
pasture_ih_li	0.0034	0.001	6.330	0.000	0.002	0.004
urban_ih_li	0.0278	0.005	5.453	0.000	0.018	0.038
ln_bdist3	-0.0599	0.007	-8.671	0.000	-0.073	-0.046
ln_ttime	-0.4198	0.016	-26.185	0.000	-0.451	-0.388
ln_capdist	-0.0431	0.010	-4.513	0.000	-0.062	-0.024
ln_pop	0.2727	0.009	31.049	0.000	0.255	0.290
gcp_li_mer	-0.0986	0.008	-12.903	0.000	-0.114	-0.084
imr_mean	0.0002	3.37e-05	5.770	0.000	0.000	0.000
excluded_dummy_li	0.0405	0.019	2.135	0.033	0.003	0.078
fvp_lngdpcap_nonoilrent	-0.0307	0.016	-1.889	0.059	-0.063	0.001
fvp_lngdpcap_oilrent	-0.0142	0.004	-3.652	0.000	-0.022	-0.007
fvp_grgdpcap_oilrent	-0.2520	0.020	-12.901	0.000	-0.290	-0.214
fvp_grgdpcap_nonoilrent	-0.0728	0.051	-1.440	0.150	-0.172	0.026
ln_fvp_timeindep	0.3812	0.028	13.694	0.000	0.327	0.436
ln_fvp_timesincepreindepwar	-0.0177	0.025	-0.706	0.480	-0.067	0.031
ln_fvp_timesinceregimechange	-0.0016	0.008	-0.208	0.835	-0.017	0.013
fvp_demo	0.0123	0.032	0.386	0.699	-0.050	0.075
fvp_semi	-0.1309	0.028	-4.610	0.000	-0.187	-0.075
fvp_prop_excluded	0.3518	0.046	7.689	0.000	0.262	0.441
ln_fvp_population200	-0.1252	0.011	-11.482	0.000	-0.147	-0.104
ssp2_edu_sec_15_24_prop	1.2395	0.059	20.854	0.000	1.123	1.356
ssp2_urban_share_iiasa	0.0021	0.001	2.474	0.013	0.000	0.004

4.3.5 sb_eval

Dep. Variable:	ged_dummy_sb	**No. Observations:**	2434356
Model:	Logit	**Df Residuals:**	2434300
Method:	MLE	**Df Model:**	55
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.4258
Time:	22:21:11	**Log-Likelihood:**	-30466.
converged:	True	**LL-Null:**	-53061.

	coef	std err	z	P>|z|	[0.025	0.975]
Intercept	-8.1954	0.430	-19.055	0.000	-9.038	-7.352
l2_ged_dummy_sb	0.0864	0.039	2.220	0.026	0.010	0.163
l3_ged_dummy_sb	0.1220	0.039	3.093	0.002	0.045	0.199
l4_ged_dummy_sb	0.1527	0.040	3.833	0.000	0.075	0.231
l5_ged_dummy_sb	0.1436	0.041	3.518	0.000	0.064	0.224
l6_ged_dummy_sb	0.0389	0.042	0.917	0.359	-0.044	0.122
l7_ged_dummy_sb	0.1183	0.043	2.765	0.006	0.034	0.202
l8_ged_dummy_sb	0.2461	0.043	5.750	0.000	0.162	0.330
l9_ged_dummy_sb	0.2612	0.043	6.025	0.000	0.176	0.346
l10_ged_dummy_sb	0.1615	0.044	3.631	0.000	0.074	0.249
l11_ged_dummy_sb	0.2328	0.045	5.219	0.000	0.145	0.320
l12_ged_dummy_sb	0.1923	0.045	4.291	0.000	0.104	0.280
q_1_1_l2_ged_dummy_sb	0.1129	0.019	5.820	0.000	0.075	0.151
q_1_1_l3_ged_dummy_sb	0.0856	0.019	4.479	0.000	0.048	0.123
l1_ged_dummy_sb	0.2506	0.039	6.426	0.000	0.174	0.327
l1_ged_dummy_ns	-0.1540	0.162	-0.948	0.343	-0.472	0.164
l1_ged_dummy_os	0.1810	0.058	3.109	0.002	0.067	0.295
l1_acled_dummy_pr	0.0494	0.085	0.581	0.561	-0.117	0.216
decay_12_cw_ged_dummy_sb_0	3.7501	0.053	70.272	0.000	3.646	3.855
decay_12_cw_ged_dummy_ns_0	0.2594	0.087	2.996	0.003	0.090	0.429
decay_12_cw_ged_dummy_os_0	1.1364	0.055	20.813	0.000	1.029	1.243
decay_12_cw_acled_dummy_pr_0	0.3424	0.061	5.605	0.000	0.223	0.462
q_1_1_l1_ged_dummy_sb	0.2567	0.019	13.653	0.000	0.220	0.294
q_1_1_l1_ged_dummy_ns	-0.2066	0.075	-2.741	0.006	-0.354	-0.059
q_1_1_l1_ged_dummy_os	0.0909	0.022	4.066	0.000	0.047	0.135
q_1_1_l1_acled_dummy_pr	-0.0352	0.035	-1.016	0.310	-0.103	0.033
ln_dist_diamsec	0.2905	0.024	12.117	0.000	0.243	0.337
ln_dist_petroleum	-0.0071	0.027	-0.265	0.791	-0.060	0.046
agri_ih_li	-0.0002	0.001	-0.176	0.860	-0.003	0.002
barren_ih_li	-0.0057	0.001	-5.037	0.000	-0.008	-0.004
forest_ih_li	-0.0009	0.001	-0.782	0.434	-0.003	0.001
mountains_mean	-0.1131	0.049	-2.309	0.021	-0.209	-0.017
savanna_ih_li	-0.0002	0.001	-0.134	0.894	-0.002	0.002
shrub_ih_li	0.0128	0.001	9.862	0.000	0.010	0.015
pasture_ih_li	0.0026	0.001	2.830	0.005	0.001	0.004
urban_ih_li	-0.0110	0.014	-0.778	0.436	-0.039	0.017
ln_bdist3	-0.0956	0.012	-8.195	0.000	-0.118	-0.073
ln_ttime	-0.1627	0.028	-5.734	0.000	-0.218	-0.107
ln_capdist	0.0542	0.021	2.610	0.009	0.013	0.095
ln_pop	0.1607	0.016	10.194	0.000	0.130	0.192
gcp_li_mer	0.1172	0.015	7.708	0.000	0.087	0.147
imr_mean	0.0006	5.79e-05	10.301	0.000	0.000	0.001
excluded_dummy_li	0.0726	0.031	2.377	0.017	0.013	0.132
fvp_lngdpcap_nonoilrent	-0.1452	0.035	-4.204	0.000	-0.213	-0.078
fvp_lngdpcap_oilrent	0.0841	0.008	10.551	0.000	0.068	0.100
fvp_grgdpcap_oilrent	-0.1552	0.031	-5.069	0.000	-0.215	-0.095
fvp_grgdpcap_nonoilrent	-0.4889	0.093	-5.234	0.000	-0.672	-0.306
ln_fvp_timeindep	0.1775	0.049	3.651	0.000	0.082	0.273
ln_fvp_timesincepreindepwar	-0.0653	0.039	-1.666	0.096	-0.142	0.012
ln_fvp_timesinceregimechange	-0.1315	0.019	-6.849	0.000	-0.169	-0.094
fvp_demo	-0.8029	0.058	-13.725	0.000	-0.918	-0.688
fvp_semi	-0.3191	0.045	-7.093	0.000	-0.407	-0.231
fvp_prop_excluded	0.1724	0.058	2.987	0.003	0.059	0.286
ln_fvp_population200	0.0598	0.023	2.588	0.010	0.015	0.105
ssp2_edu_sec_15_24_prop	-0.0488	0.129	-0.378	0.706	-0.302	0.204
ssp2_urban_share_iiasa	-9.885e-05	0.001	-0.071	0.943	-0.003	0.003

4.3.6 ns_eval

Dep. Variable:	ged_dummy_ns	**No. Observations:**	2434356
Model:	Logit	**Df Residuals:**	2434300
Method:	MLE	**Df Model:**	55
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.3202
Time:	22:21:13	**Log-Likelihood:**	-12532.
converged:	True	**LL-Null:**	-18436.

	coef	std err	z	P>|z|	[0.025	0.975]
Intercept	-15.6642	0.766	-20.446	0.000	-17.166	-14.163
l2_ged_dummy_ns	0.2230	0.081	2.762	0.006	0.065	0.381
l3_ged_dummy_ns	0.1718	0.083	2.069	0.039	0.009	0.335
l4_ged_dummy_ns	0.1276	0.086	1.486	0.137	-0.041	0.296
l5_ged_dummy_ns	0.1859	0.089	2.095	0.036	0.012	0.360
l6_ged_dummy_ns	0.1311	0.093	1.410	0.158	-0.051	0.313
l7_ged_dummy_ns	0.1242	0.096	1.289	0.197	-0.065	0.313
l8_ged_dummy_ns	0.0207	0.101	0.205	0.838	-0.177	0.218
l9_ged_dummy_ns	0.4412	0.095	4.634	0.000	0.255	0.628
l10_ged_dummy_ns	0.4234	0.097	4.349	0.000	0.233	0.614
l11_ged_dummy_ns	0.0898	0.106	0.846	0.398	-0.118	0.298
l12_ged_dummy_ns	0.1697	0.106	1.597	0.110	-0.039	0.378
q_1_1_l2_ged_dummy_ns	0.2028	0.053	3.814	0.000	0.099	0.307
q_1_1_l3_ged_dummy_ns	0.1975	0.054	3.663	0.000	0.092	0.303
l1_ged_dummy_sb	-0.2560	0.147	-1.744	0.081	-0.544	0.032
l1_ged_dummy_ns	0.4567	0.081	5.649	0.000	0.298	0.615
l1_ged_dummy_os	0.1712	0.128	1.340	0.180	-0.079	0.422
l1_acled_dummy_pr	0.2450	0.111	2.217	0.027	0.028	0.462
decay_12_cw_ged_dummy_sb_0	0.6417	0.111	5.797	0.000	0.425	0.859
decay_12_cw_ged_dummy_ns_0	3.8035	0.099	38.387	0.000	3.609	3.998
decay_12_cw_ged_dummy_os_0	0.7752	0.109	7.113	0.000	0.562	0.989
decay_12_cw_acled_dummy_pr_0	0.5781	0.097	5.980	0.000	0.389	0.768
q_1_1_l1_ged_dummy_sb	-0.2040	0.059	-3.473	0.001	-0.319	-0.089
q_1_1_l1_ged_dummy_ns	0.5989	0.049	12.324	0.000	0.504	0.694
q_1_1_l1_ged_dummy_os	0.1856	0.049	3.769	0.000	0.089	0.282
q_1_1_l1_acled_dummy_pr	-0.0068	0.041	-0.166	0.868	-0.087	0.073
ln_dist_diamsec	0.4305	0.047	9.226	0.000	0.339	0.522
ln_dist_petroleum	0.6526	0.064	10.231	0.000	0.528	0.778
agri_ih_li	0.0086	0.002	3.680	0.000	0.004	0.013
barren_ih_li	-0.0020	0.002	-0.925	0.355	-0.006	0.002
forest_ih_li	0.0005	0.002	0.205	0.838	-0.004	0.005
mountains_mean	-0.2618	0.092	-2.848	0.004	-0.442	-0.082
savanna_ih_li	0.0090	0.002	4.252	0.000	0.005	0.013
shrub_ih_li	0.0234	0.002	9.846	0.000	0.019	0.028
pasture_ih_li	0.0089	0.002	4.656	0.000	0.005	0.013
urban_ih_li	0.0264	0.017	1.587	0.112	-0.006	0.059
ln_bdist3	-0.1029	0.020	-5.214	0.000	-0.142	-0.064
ln_ttime	0.1142	0.049	2.325	0.020	0.018	0.210
ln_capdist	0.0593	0.035	1.698	0.089	-0.009	0.128
ln_pop	0.2321	0.027	8.572	0.000	0.179	0.285
gcp_li_mer	0.0741	0.030	2.509	0.012	0.016	0.132
imr_mean	-0.0002	0.000	-1.565	0.118	-0.000	4.05e-05
excluded_dummy_li	0.2775	0.050	5.514	0.000	0.179	0.376
fvp_lngdpcap_nonoilrent	0.0220	0.058	0.382	0.702	-0.091	0.135
fvp_lngdpcap_oilrent	0.0744	0.013	5.570	0.000	0.048	0.101
fvp_grgdpcap_oilrent	-0.2048	0.052	-3.974	0.000	-0.306	-0.104
fvp_grgdpcap_nonoilrent	-0.8680	0.163	-5.332	0.000	-1.187	-0.549
ln_fvp_timeindep	-0.2754	0.084	-3.275	0.001	-0.440	-0.111
ln_fvp_timesincepreindepwar	0.3798	0.072	5.249	0.000	0.238	0.522
ln_fvp_timesinceregimechange	-0.1170	0.029	-4.002	0.000	-0.174	-0.060
fvp_demo	-0.4359	0.087	-5.003	0.000	-0.607	-0.265
fvp_semi	-0.0933	0.077	-1.218	0.223	-0.243	0.057
fvp_prop_excluded	-0.8659	0.121	-7.139	0.000	-1.104	-0.628
ln_fvp_population200	0.1605	0.040	3.969	0.000	0.081	0.240
ssp2_edu_sec_15_24_prop	0.4242	0.196	2.165	0.030	0.040	0.808
ssp2_urban_share_iiasa	-0.0050	0.002	-2.084	0.037	-0.010	-0.000

4.3.7 os_eval

Dep. Variable:	ged_dummy_os	**No. Observations:**	2434356
Model:	Logit	**Df Residuals:**	2434300
Method:	MLE	**Df Model:**	55
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.4051
Time:	22:21:12	**Log-Likelihood:**	-21666.
converged:	True	**LL-Null:**	-36417.

	coef	std err	z	P>|z|	[0.025	0.975]
Intercept	-7.6565	0.529	-14.464	0.000	-8.694	-6.619
l2_ged_dummy_os	0.0842	0.051	1.661	0.097	-0.015	0.184
l3_ged_dummy_os	0.1126	0.052	2.184	0.029	0.012	0.214
l4_ged_dummy_os	0.1147	0.052	2.197	0.028	0.012	0.217
l5_ged_dummy_os	0.0229	0.054	0.424	0.671	-0.083	0.129
l6_ged_dummy_os	0.1530	0.054	2.813	0.005	0.046	0.260
l7_ged_dummy_os	0.1535	0.055	2.772	0.006	0.045	0.262
l8_ged_dummy_os	0.0730	0.057	1.276	0.202	-0.039	0.185
l9_ged_dummy_os	0.0789	0.058	1.351	0.177	-0.036	0.193
l10_ged_dummy_os	0.0190	0.060	0.316	0.752	-0.099	0.137
l11_ged_dummy_os	0.1052	0.060	1.750	0.080	-0.013	0.223
l12_ged_dummy_os	0.2721	0.059	4.624	0.000	0.157	0.387
q_1_1_l2_ged_dummy_os	0.1015	0.024	4.190	0.000	0.054	0.149
q_1_1_l3_ged_dummy_os	0.0566	0.024	2.400	0.016	0.010	0.103
l1_ged_dummy_sb	0.0579	0.059	0.981	0.327	-0.058	0.174
l1_ged_dummy_ns	0.3499	0.130	2.687	0.007	0.095	0.605
l1_ged_dummy_os	0.4461	0.051	8.792	0.000	0.347	0.546
l1_acled_dummy_pr	0.1500	0.087	1.728	0.084	-0.020	0.320
decay_12_cw_ged_dummy_sb_0	1.5570	0.063	24.521	0.000	1.433	1.681
decay_12_cw_ged_dummy_ns_0	0.6324	0.084	7.534	0.000	0.468	0.797
decay_12_cw_ged_dummy_os_0	3.1533	0.070	45.043	0.000	3.016	3.291
decay_12_cw_acled_dummy_pr_0	0.6086	0.070	8.737	0.000	0.472	0.745
q_1_1_l1_ged_dummy_sb	0.0512	0.022	2.290	0.022	0.007	0.095
q_1_1_l1_ged_dummy_ns	0.1217	0.059	2.068	0.039	0.006	0.237
q_1_1_l1_ged_dummy_os	0.3646	0.023	15.667	0.000	0.319	0.410
q_1_1_l1_acled_dummy_pr	-0.0277	0.038	-0.738	0.461	-0.101	0.046
ln_dist_diamsec	-0.0811	0.028	-2.936	0.003	-0.135	-0.027
ln_dist_petroleum	0.3222	0.037	8.624	0.000	0.249	0.395
agri_ih_li	0.0056	0.002	3.673	0.000	0.003	0.009
barren_ih_li	-0.0105	0.002	-6.492	0.000	-0.014	-0.007
forest_ih_li	0.0028	0.001	2.303	0.021	0.000	0.005
mountains_mean	-0.2526	0.062	-4.070	0.000	-0.374	-0.131
savanna_ih_li	0.0097	0.001	8.231	0.000	0.007	0.012
shrub_ih_li	0.0043	0.002	1.977	0.048	3.68e-05	0.009
pasture_ih_li	-0.0024	0.001	-2.094	0.036	-0.005	-0.000
urban_ih_li	0.0150	0.014	1.059	0.289	-0.013	0.043
ln_bdist3	-0.0779	0.014	-5.561	0.000	-0.105	-0.050
ln_ttime	-0.1730	0.037	-4.707	0.000	-0.245	-0.101
ln_capdist	0.1200	0.024	4.980	0.000	0.073	0.167
ln_pop	0.1968	0.020	9.706	0.000	0.157	0.237
gcp_li_mer	0.1659	0.019	8.545	0.000	0.128	0.204
imr_mean	0.0002	6.85e-05	2.420	0.016	3.15e-05	0.000
excluded_dummy_li	0.0970	0.037	2.610	0.009	0.024	0.170
fvp_lngdpcap_nonoilrent	-0.3120	0.041	-7.557	0.000	-0.393	-0.231
fvp_lngdpcap_oilrent	0.1001	0.010	10.284	0.000	0.081	0.119
fvp_grgdpcap_oilrent	-0.2336	0.039	-6.051	0.000	-0.309	-0.158
fvp_grgdpcap_nonoilrent	-0.5468	0.121	-4.520	0.000	-0.784	-0.310
ln_fvp_timeindep	0.0121	0.060	0.200	0.841	-0.106	0.130
ln_fvp_timesincepreindepwar	0.0830	0.049	1.702	0.089	-0.013	0.179
ln_fvp_timesinceregimechange	-0.0878	0.023	-3.879	0.000	-0.132	-0.043
fvp_demo	-0.9043	0.067	-13.436	0.000	-1.036	-0.772
fvp_semi	-0.3269	0.054	-6.066	0.000	-0.432	-0.221
fvp_prop_excluded	0.2049	0.066	3.099	0.002	0.075	0.335
ln_fvp_population200	0.0276	0.029	0.965	0.335	-0.028	0.084
ssp2_edu_sec_15_24_prop	0.2404	0.152	1.577	0.115	-0.058	0.539
ssp2_urban_share_iiasa	0.0012	0.002	0.740	0.459	-0.002	0.004

4.3.8 pr_eval

Dep. Variable:	acled_dummy_pr	**No. Observations:**	2434356
Model:	Logit	**Df Residuals:**	2434300
Method:	MLE	**Df Model:**	55
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.4530
Time:	22:21:07	**Log-Likelihood:**	-49056.
converged:	True	**LL-Null:**	-89680.

	coef	std err	z	P>|z|	[0.025	0.975]
Intercept	-6.7118	0.305	-21.975	0.000	-7.310	-6.113
l2_acled_dummy_pr	0.1842	0.029	6.344	0.000	0.127	0.241
l3_acled_dummy_pr	0.2127	0.029	7.245	0.000	0.155	0.270
l4_acled_dummy_pr	0.2377	0.030	8.051	0.000	0.180	0.296
l5_acled_dummy_pr	0.2385	0.030	7.934	0.000	0.180	0.297
l6_acled_dummy_pr	0.1960	0.031	6.357	0.000	0.136	0.256
l7_acled_dummy_pr	0.2548	0.031	8.180	0.000	0.194	0.316
l8_acled_dummy_pr	0.3106	0.031	9.894	0.000	0.249	0.372
l9_acled_dummy_pr	0.2605	0.032	8.122	0.000	0.198	0.323
l10_acled_dummy_pr	0.2502	0.033	7.684	0.000	0.186	0.314
l11_acled_dummy_pr	0.3300	0.033	10.141	0.000	0.266	0.394
l12_acled_dummy_pr	0.3801	0.032	11.704	0.000	0.316	0.444
q_1_1_l2_acled_dummy_pr	-0.0108	0.017	-0.646	0.518	-0.043	0.022
q_1_1_l3_acled_dummy_pr	0.0105	0.016	0.645	0.519	-0.021	0.042
l1_ged_dummy_sb	-0.4209	0.085	-4.927	0.000	-0.588	-0.253
l1_ged_dummy_ns	0.1003	0.119	0.844	0.399	-0.133	0.333
l1_ged_dummy_os	-0.0577	0.090	-0.639	0.523	-0.235	0.119
l1_acled_dummy_pr	0.3235	0.029	11.182	0.000	0.267	0.380
decay_12_cw_ged_dummy_sb_0	0.6522	0.062	10.582	0.000	0.531	0.773
decay_12_cw_ged_dummy_ns_0	0.4788	0.069	6.916	0.000	0.343	0.614
decay_12_cw_ged_dummy_os_0	0.3464	0.063	5.507	0.000	0.223	0.470
decay_12_cw_acled_dummy_pr_0	3.0859	0.040	77.432	0.000	3.008	3.164
q_1_1_l1_ged_dummy_sb	-0.1495	0.036	-4.175	0.000	-0.220	-0.079
q_1_1_l1_ged_dummy_ns	-0.0752	0.055	-1.360	0.174	-0.184	0.033
q_1_1_l1_ged_dummy_os	-0.0226	0.040	-0.571	0.568	-0.100	0.055
q_1_1_l1_acled_dummy_pr	0.2216	0.015	14.422	0.000	0.191	0.252
ln_dist_diamsec	0.1199	0.016	7.468	0.000	0.088	0.151
ln_dist_petroleum	0.1149	0.021	5.467	0.000	0.074	0.156
agri_ih_li	-0.0007	0.001	-0.870	0.384	-0.002	0.001
barren_ih_li	0.0026	0.001	3.559	0.000	0.001	0.004
forest_ih_li	0.0014	0.001	1.562	0.118	-0.000	0.003
mountains_mean	0.0458	0.037	1.222	0.222	-0.028	0.119
savanna_ih_li	0.0004	0.001	0.543	0.587	-0.001	0.002
shrub_ih_li	0.0064	0.001	5.604	0.000	0.004	0.009
pasture_ih_li	0.0042	0.001	6.168	0.000	0.003	0.006
urban_ih_li	0.0213	0.006	3.549	0.000	0.010	0.033
ln_bdist3	-0.0815	0.009	-9.245	0.000	-0.099	-0.064
ln_ttime	-0.4594	0.021	-22.364	0.000	-0.500	-0.419
ln_capdist	-0.0466	0.012	-3.940	0.000	-0.070	-0.023
ln_pop	0.3129	0.011	27.728	0.000	0.291	0.335
gcp_li_mer	-0.1032	0.010	-10.415	0.000	-0.123	-0.084
imr_mean	0.0002	4.35e-05	4.370	0.000	0.000	0.000
excluded_dummy_li	0.0244	0.025	0.986	0.324	-0.024	0.073
fvp_lngdpcap_nonoilrent	-0.1290	0.025	-5.230	0.000	-0.177	-0.081
fvp_lngdpcap_oilrent	-0.0156	0.005	-3.062	0.002	-0.026	-0.006
fvp_grgdpcap_oilrent	-0.3090	0.023	-13.344	0.000	-0.354	-0.264
fvp_grgdpcap_nonoilrent	-0.2130	0.094	-2.266	0.023	-0.397	-0.029
ln_fvp_timeindep	0.3048	0.036	8.516	0.000	0.235	0.375
ln_fvp_timesincepreindepwar	-0.0617	0.032	-1.943	0.052	-0.124	0.001
ln_fvp_timesinceregimechange	0.0951	0.013	7.274	0.000	0.069	0.121
fvp_demo	0.1697	0.041	4.155	0.000	0.090	0.250
fvp_semi	-0.1216	0.036	-3.393	0.001	-0.192	-0.051
fvp_prop_excluded	0.4172	0.057	7.320	0.000	0.306	0.529
ln_fvp_population200	-0.1323	0.014	-9.348	0.000	-0.160	-0.105
ssp2_edu_sec_15_24_prop	1.6803	0.079	21.256	0.000	1.525	1.835
ssp2_urban_share_iiasa	-0.0007	0.001	-0.668	0.504	-0.003	0.001

4.4 ds_pgm_acled_nocm

4.4.1 sb_fcast

Dep. Variable:	ged_dummy_sb	**No. Observations:**	2872113
Model:	Logit	**Df Residuals:**	2872070
Method:	MLE	**Df Model:**	42
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.4298
Time:	21:53:02	**Log-Likelihood:**	-39155.
converged:	True	**LL-Null:**	-68671.

	coef	std err	z	P>|z|	[0.025	0.975]
Intercept	-8.8823	0.251	-35.448	0.000	-9.373	-8.391
l2_ged_dummy_sb	0.1061	0.033	3.179	0.001	0.041	0.172
l3_ged_dummy_sb	0.0950	0.034	2.794	0.005	0.028	0.162
l4_ged_dummy_sb	0.1486	0.034	4.333	0.000	0.081	0.216
l5_ged_dummy_sb	0.1648	0.035	4.701	0.000	0.096	0.234
l6_ged_dummy_sb	0.0450	0.036	1.234	0.217	-0.026	0.116
l7_ged_dummy_sb	0.1674	0.037	4.571	0.000	0.096	0.239
l8_ged_dummy_sb	0.2087	0.037	5.638	0.000	0.136	0.281
l9_ged_dummy_sb	0.2316	0.037	6.182	0.000	0.158	0.305
l10_ged_dummy_sb	0.1689	0.038	4.420	0.000	0.094	0.244
l11_ged_dummy_sb	0.2092	0.038	5.454	0.000	0.134	0.284
l12_ged_dummy_sb	0.2385	0.038	6.233	0.000	0.164	0.314
q_1_1_l2_ged_dummy_sb	0.1228	0.016	7.504	0.000	0.091	0.155
q_1_1_l3_ged_dummy_sb	0.0684	0.016	4.226	0.000	0.037	0.100
l1_ged_dummy_sb	0.1477	0.034	4.382	0.000	0.082	0.214
l1_ged_dummy_ns	-0.1954	0.131	-1.495	0.135	-0.452	0.061
l1_ged_dummy_os	0.1152	0.050	2.298	0.022	0.017	0.213
l1_acled_dummy_pr	0.0353	0.065	0.539	0.590	-0.093	0.164
decay_12_cw_ged_dummy_sb_0	4.0100	0.046	87.255	0.000	3.920	4.100
decay_12_cw_ged_dummy_ns_0	0.1699	0.072	2.346	0.019	0.028	0.312
decay_12_cw_ged_dummy_os_0	1.1230	0.047	23.766	0.000	1.030	1.216
decay_12_cw_acled_dummy_pr_0	0.3180	0.049	6.511	0.000	0.222	0.414
q_1_1_l1_ged_dummy_sb	0.2658	0.016	16.639	0.000	0.235	0.297
q_1_1_l1_ged_dummy_ns	-0.1604	0.054	-2.978	0.003	-0.266	-0.055
q_1_1_l1_ged_dummy_os	0.0721	0.019	3.730	0.000	0.034	0.110
q_1_1_l1_acled_dummy_pr	-0.0356	0.024	-1.506	0.132	-0.082	0.011
ln_dist_diamsec	0.2921	0.019	15.744	0.000	0.256	0.328
ln_dist_petroleum	-0.1503	0.019	-8.048	0.000	-0.187	-0.114
agri_ih_li	-0.0019	0.001	-1.791	0.073	-0.004	0.000
barren_ih_li	-0.0045	0.001	-4.763	0.000	-0.006	-0.003
forest_ih_li	-0.0010	0.001	-1.038	0.299	-0.003	0.001
mountains_mean	-0.0757	0.041	-1.846	0.065	-0.156	0.005
savanna_ih_li	-0.0017	0.001	-1.878	0.060	-0.004	7.59e-05
shrub_ih_li	0.0094	0.001	8.809	0.000	0.007	0.011
pasture_ih_li	0.0041	0.001	5.441	0.000	0.003	0.006
urban_ih_li	0.0148	0.010	1.540	0.123	-0.004	0.034
ln_bdist3	-0.0768	0.009	-8.114	0.000	-0.095	-0.058
ln_ttime	-0.1474	0.025	-5.998	0.000	-0.196	-0.099
ln_capdist	0.0938	0.015	6.466	0.000	0.065	0.122
ln_pop	0.1677	0.013	13.321	0.000	0.143	0.192
gcp_li_mer	0.0289	0.012	2.395	0.017	0.005	0.053
imr_mean	0.0005	3.8e-05	13.452	0.000	0.000	0.001
excluded_dummy_li	0.2077	0.024	8.759	0.000	0.161	0.254

4.4.2 ns_fcast

Dep. Variable:	ged_dummy_ns	**No. Observations:**	2872113
Model:	Logit	**Df Residuals:**	2872070
Method:	MLE	**Df Model:**	42
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.3213
Time:	21:53:05	**Log-Likelihood:**	-17916.
converged:	True	**LL-Null:**	-26398.

	coef	std err	z	P>|z|	[0.025	0.975]
Intercept	-13.0560	0.427	-30.551	0.000	-13.894	-12.218
l2_ged_dummy_ns	0.1523	0.065	2.335	0.020	0.024	0.280
l3_ged_dummy_ns	0.1014	0.068	1.500	0.134	-0.031	0.234
l4_ged_dummy_ns	0.0348	0.070	0.495	0.621	-0.103	0.173
l5_ged_dummy_ns	0.2490	0.071	3.515	0.000	0.110	0.388
l6_ged_dummy_ns	0.2001	0.074	2.703	0.007	0.055	0.345
l7_ged_dummy_ns	0.1876	0.077	2.445	0.014	0.037	0.338
l8_ged_dummy_ns	0.1399	0.080	1.755	0.079	-0.016	0.296
l9_ged_dummy_ns	0.3628	0.079	4.603	0.000	0.208	0.517
l10_ged_dummy_ns	0.3448	0.081	4.281	0.000	0.187	0.503
l11_ged_dummy_ns	0.2258	0.084	2.702	0.007	0.062	0.390
l12_ged_dummy_ns	0.2645	0.084	3.151	0.002	0.100	0.429
q_1_1_l2_ged_dummy_ns	0.2391	0.039	6.136	0.000	0.163	0.315
q_1_1_l3_ged_dummy_ns	0.1802	0.041	4.443	0.000	0.101	0.260
l1_ged_dummy_sb	-0.3362	0.117	-2.886	0.004	-0.565	-0.108
l1_ged_dummy_ns	0.3530	0.065	5.412	0.000	0.225	0.481
l1_ged_dummy_os	0.0786	0.101	0.778	0.437	-0.119	0.277
l1_acled_dummy_pr	0.0093	0.083	0.111	0.912	-0.154	0.173
decay_12_cw_ged_dummy_sb_0	0.7746	0.090	8.602	0.000	0.598	0.951
decay_12_cw_ged_dummy_ns_0	4.1033	0.080	51.582	0.000	3.947	4.259
decay_12_cw_ged_dummy_os_0	0.8328	0.087	9.541	0.000	0.662	1.004
decay_12_cw_acled_dummy_pr_0	0.7506	0.073	10.223	0.000	0.607	0.894
q_1_1_l1_ged_dummy_sb	-0.1105	0.040	-2.762	0.006	-0.189	-0.032
q_1_1_l1_ged_dummy_ns	0.5279	0.037	14.314	0.000	0.456	0.600
q_1_1_l1_ged_dummy_os	0.1137	0.040	2.843	0.004	0.035	0.192
q_1_1_l1_acled_dummy_pr	0.0302	0.029	1.033	0.301	-0.027	0.087
ln_dist_diamsec	0.3532	0.033	10.833	0.000	0.289	0.417
ln_dist_petroleum	0.3244	0.039	8.234	0.000	0.247	0.402
agri_ih_li	0.0070	0.002	3.988	0.000	0.004	0.011
barren_ih_li	-0.0056	0.002	-3.366	0.001	-0.009	-0.002
forest_ih_li	-0.0022	0.002	-1.240	0.215	-0.006	0.001
mountains_mean	-0.4399	0.074	-5.962	0.000	-0.585	-0.295
savanna_ih_li	0.0045	0.002	2.797	0.005	0.001	0.008
shrub_ih_li	0.0142	0.002	7.659	0.000	0.011	0.018
pasture_ih_li	0.0050	0.001	3.454	0.001	0.002	0.008
urban_ih_li	0.0135	0.015	0.913	0.361	-0.015	0.042
ln_bdist3	-0.0379	0.015	-2.453	0.014	-0.068	-0.008
ln_ttime	0.0975	0.040	2.464	0.014	0.020	0.175
ln_capdist	0.1984	0.025	7.910	0.000	0.149	0.248
ln_pop	0.2307	0.020	11.315	0.000	0.191	0.271
gcp_li_mer	-0.0150	0.025	-0.607	0.544	-0.064	0.033
imr_mean	-0.0003	6.45e-05	-4.965	0.000	-0.000	-0.000
excluded_dummy_li	0.1378	0.039	3.535	0.000	0.061	0.214

4.4.3 os_fcast

Dep. Variable:	ged_dummy_os	**No. Observations:**	2872113
Model:	Logit	**Df Residuals:**	2872070
Method:	MLE	**Df Model:**	42
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.3993
Time:	21:53:08	**Log-Likelihood:**	-28583.
converged:	True	**LL-Null:**	-47583.

	coef	std err	z	P>|z|	[0.025	0.975]
Intercept	-9.9169	0.323	-30.695	0.000	-10.550	-9.284
l2_ged_dummy_os	0.0684	0.044	1.572	0.116	-0.017	0.154
l3_ged_dummy_os	0.1243	0.044	2.812	0.005	0.038	0.211
l4_ged_dummy_os	0.0923	0.045	2.050	0.040	0.004	0.181
l5_ged_dummy_os	0.0923	0.046	1.998	0.046	0.002	0.183
l6_ged_dummy_os	0.1634	0.047	3.487	0.000	0.072	0.255
l7_ged_dummy_os	0.1533	0.048	3.192	0.001	0.059	0.247
l8_ged_dummy_os	0.0348	0.050	0.698	0.485	-0.063	0.132
l9_ged_dummy_os	0.0659	0.051	1.303	0.193	-0.033	0.165
l10_ged_dummy_os	-0.0126	0.052	-0.242	0.809	-0.115	0.089
l11_ged_dummy_os	0.1142	0.052	2.202	0.028	0.013	0.216
l12_ged_dummy_os	0.2309	0.051	4.540	0.000	0.131	0.331
q_1_1_l2_ged_dummy_os	0.1162	0.021	5.512	0.000	0.075	0.158
q_1_1_l3_ged_dummy_os	0.0462	0.021	2.253	0.024	0.006	0.086
l1_ged_dummy_sb	0.0779	0.051	1.538	0.124	-0.021	0.177
l1_ged_dummy_ns	0.2285	0.107	2.145	0.032	0.020	0.437
l1_ged_dummy_os	0.3817	0.044	8.725	0.000	0.296	0.467
l1_acled_dummy_pr	0.1934	0.065	2.959	0.003	0.065	0.322
decay_12_cw_ged_dummy_sb_0	1.6020	0.056	28.703	0.000	1.493	1.711
decay_12_cw_ged_dummy_ns_0	0.5181	0.070	7.438	0.000	0.382	0.655
decay_12_cw_ged_dummy_os_0	3.3453	0.061	55.217	0.000	3.227	3.464
decay_12_cw_acled_dummy_pr_0	0.6870	0.056	12.283	0.000	0.577	0.797
q_1_1_l1_ged_dummy_sb	0.0243	0.018	1.319	0.187	-0.012	0.060
q_1_1_l1_ged_dummy_ns	0.0724	0.044	1.660	0.097	-0.013	0.158
q_1_1_l1_ged_dummy_os	0.3479	0.020	17.153	0.000	0.308	0.388
q_1_1_l1_acled_dummy_pr	0.0217	0.024	0.898	0.369	-0.026	0.069
ln_dist_diamsec	-0.0396	0.021	-1.856	0.064	-0.081	0.002
ln_dist_petroleum	0.1940	0.027	7.304	0.000	0.142	0.246
agri_ih_li	0.0010	0.001	0.819	0.413	-0.001	0.003
barren_ih_li	-0.0095	0.001	-6.991	0.000	-0.012	-0.007
forest_ih_li	0.0009	0.001	0.848	0.396	-0.001	0.003
mountains_mean	-0.2188	0.051	-4.297	0.000	-0.319	-0.119
savanna_ih_li	0.0073	0.001	7.652	0.000	0.005	0.009
shrub_ih_li	-0.0007	0.002	-0.396	0.692	-0.004	0.003
pasture_ih_li	-0.0004	0.001	-0.385	0.700	-0.002	0.002
urban_ih_li	0.0140	0.011	1.252	0.211	-0.008	0.036
ln_bdist3	-0.0526	0.011	-4.628	0.000	-0.075	-0.030
ln_ttime	-0.1314	0.031	-4.200	0.000	-0.193	-0.070
ln_capdist	0.1213	0.015	8.025	0.000	0.092	0.151
ln_pop	0.2025	0.016	12.451	0.000	0.171	0.234
gcp_li_mer	0.0508	0.015	3.323	0.001	0.021	0.081
imr_mean	0.0004	4.98e-05	7.409	0.000	0.000	0.000
excluded_dummy_li	0.2889	0.029	10.012	0.000	0.232	0.345

4.4.4 pr_fcast

Dep. Variable:	acled_dummy_pr	**No. Observations:**	2872113
Model:	Logit	**Df Residuals:**	2872070
Method:	MLE	**Df Model:**	42
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.4652
Time:	21:53:01	**Log-Likelihood:**	-76120.
converged:	True	**LL-Null:**	-1.4234e+05

	coef	std err	z	P>|z|	[0.025	0.975]
Intercept	-6.1294	0.157	-39.024	0.000	-6.437	-5.822
l2_acled_dummy_pr	0.1898	0.022	8.747	0.000	0.147	0.232
l3_acled_dummy_pr	0.1990	0.022	9.057	0.000	0.156	0.242
l4_acled_dummy_pr	0.2425	0.022	11.001	0.000	0.199	0.286
l5_acled_dummy_pr	0.2164	0.023	9.613	0.000	0.172	0.260
l6_acled_dummy_pr	0.2171	0.023	9.464	0.000	0.172	0.262
l7_acled_dummy_pr	0.2661	0.023	11.487	0.000	0.221	0.312
l8_acled_dummy_pr	0.2978	0.023	12.745	0.000	0.252	0.344
l9_acled_dummy_pr	0.2568	0.024	10.827	0.000	0.210	0.303
l10_acled_dummy_pr	0.2271	0.024	9.448	0.000	0.180	0.274
l11_acled_dummy_pr	0.3128	0.024	13.070	0.000	0.266	0.360
l12_acled_dummy_pr	0.4284	0.024	18.151	0.000	0.382	0.475
q_1_1_l2_acled_dummy_pr	0.0324	0.011	2.898	0.004	0.010	0.054
q_1_1_l3_acled_dummy_pr	0.0284	0.011	2.618	0.009	0.007	0.050
l1_ged_dummy_sb	-0.1462	0.067	-2.198	0.028	-0.277	-0.016
l1_ged_dummy_ns	0.1664	0.090	1.844	0.065	-0.010	0.343
l1_ged_dummy_os	0.0187	0.069	0.272	0.786	-0.116	0.153
l1_acled_dummy_pr	0.2835	0.022	13.044	0.000	0.241	0.326
decay_12_cw_ged_dummy_sb_0	0.4580	0.047	9.735	0.000	0.366	0.550
decay_12_cw_ged_dummy_ns_0	0.3094	0.054	5.726	0.000	0.203	0.415
decay_12_cw_ged_dummy_os_0	0.2884	0.047	6.089	0.000	0.196	0.381
decay_12_cw_acled_dummy_pr_0	3.3372	0.031	107.272	0.000	3.276	3.398
q_1_1_l1_ged_dummy_sb	-0.1425	0.026	-5.409	0.000	-0.194	-0.091
q_1_1_l1_ged_dummy_ns	-0.0628	0.037	-1.704	0.088	-0.135	0.009
q_1_1_l1_ged_dummy_os	-0.0280	0.029	-0.980	0.327	-0.084	0.028
q_1_1_l1_acled_dummy_pr	0.2261	0.010	21.689	0.000	0.206	0.247
ln_dist_diamsec	0.0118	0.011	1.052	0.293	-0.010	0.034
ln_dist_petroleum	0.0233	0.013	1.764	0.078	-0.003	0.049
agri_ih_li	0.0005	0.001	0.874	0.382	-0.001	0.002
barren_ih_li	0.0026	0.001	4.589	0.000	0.002	0.004
forest_ih_li	0.0012	0.001	1.806	0.071	-0.000	0.003
mountains_mean	0.1688	0.027	6.179	0.000	0.115	0.222
savanna_ih_li	0.0022	0.001	3.552	0.000	0.001	0.003
shrub_ih_li	0.0094	0.001	10.959	0.000	0.008	0.011
pasture_ih_li	0.0045	0.001	8.484	0.000	0.003	0.005
urban_ih_li	0.0294	0.005	5.822	0.000	0.020	0.039
ln_bdist3	-0.0720	0.006	-11.489	0.000	-0.084	-0.060
ln_ttime	-0.4238	0.016	-26.925	0.000	-0.455	-0.393
ln_capdist	-0.0152	0.008	-1.935	0.053	-0.031	0.000
ln_pop	0.2470	0.008	30.549	0.000	0.231	0.263
gcp_li_mer	-0.0834	0.007	-11.330	0.000	-0.098	-0.069
imr_mean	-0.0002	2.62e-05	-7.834	0.000	-0.000	-0.000
excluded_dummy_li	-0.0253	0.018	-1.406	0.160	-0.061	0.010

4.4.5 sb_eval

Dep. Variable:	ged_dummy_sb	**No. Observations:**	2434356
Model:	Logit	**Df Residuals:**	2434313
Method:	MLE	**Df Model:**	42
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.4198
Time:	21:53:05	**Log-Likelihood:**	-30784.
converged:	True	**LL-Null:**	-53061.

	coef	std err	z	P>|z|	[0.025	0.975]
Intercept	-8.8453	0.288	-30.722	0.000	-9.410	-8.281
l2_ged_dummy_sb	0.0644	0.039	1.660	0.097	-0.012	0.140
l3_ged_dummy_sb	0.1083	0.039	2.755	0.006	0.031	0.185
l4_ged_dummy_sb	0.1461	0.040	3.679	0.000	0.068	0.224
l5_ged_dummy_sb	0.1423	0.041	3.497	0.000	0.063	0.222
l6_ged_dummy_sb	0.0415	0.042	0.980	0.327	-0.041	0.124
l7_ged_dummy_sb	0.1197	0.043	2.800	0.005	0.036	0.203
l8_ged_dummy_sb	0.2500	0.043	5.844	0.000	0.166	0.334
l9_ged_dummy_sb	0.2603	0.043	6.001	0.000	0.175	0.345
l10_ged_dummy_sb	0.1619	0.045	3.636	0.000	0.075	0.249
l11_ged_dummy_sb	0.2343	0.045	5.245	0.000	0.147	0.322
l12_ged_dummy_sb	0.1931	0.045	4.302	0.000	0.105	0.281
q_1_1_l2_ged_dummy_sb	0.1128	0.019	5.798	0.000	0.075	0.151
q_1_1_l3_ged_dummy_sb	0.0846	0.019	4.415	0.000	0.047	0.122
l1_ged_dummy_sb	0.2087	0.039	5.374	0.000	0.133	0.285
l1_ged_dummy_ns	-0.1588	0.163	-0.975	0.330	-0.478	0.161
l1_ged_dummy_os	0.1541	0.058	2.644	0.008	0.040	0.268
l1_acled_dummy_pr	0.0663	0.083	0.795	0.427	-0.097	0.230
decay_12_cw_ged_dummy_sb_0	4.0197	0.052	76.874	0.000	3.917	4.122
decay_12_cw_ged_dummy_ns_0	0.2323	0.086	2.691	0.007	0.063	0.402
decay_12_cw_ged_dummy_os_0	1.1591	0.055	21.215	0.000	1.052	1.266
decay_12_cw_acled_dummy_pr_0	0.3141	0.060	5.274	0.000	0.197	0.431
q_1_1_l1_ged_dummy_sb	0.2605	0.019	13.804	0.000	0.223	0.297
q_1_1_l1_ged_dummy_ns	-0.2488	0.076	-3.265	0.001	-0.398	-0.099
q_1_1_l1_ged_dummy_os	0.0678	0.022	3.018	0.003	0.024	0.112
q_1_1_l1_acled_dummy_pr	-0.0316	0.034	-0.928	0.353	-0.098	0.035
ln_dist_diamsec	0.2628	0.021	12.491	0.000	0.222	0.304
ln_dist_petroleum	-0.1544	0.021	-7.471	0.000	-0.195	-0.114
agri_ih_li	-0.0021	0.001	-1.739	0.082	-0.004	0.000
barren_ih_li	-0.0075	0.001	-6.792	0.000	-0.010	-0.005
forest_ih_li	-0.0027	0.001	-2.550	0.011	-0.005	-0.001
mountains_mean	-0.0346	0.046	-0.754	0.451	-0.125	0.055
savanna_ih_li	-0.0043	0.001	-3.937	0.000	-0.006	-0.002
shrub_ih_li	0.0088	0.001	7.316	0.000	0.006	0.011
pasture_ih_li	0.0030	0.001	3.482	0.000	0.001	0.005
urban_ih_li	0.0095	0.013	0.713	0.476	-0.017	0.036
ln_bdist3	-0.0647	0.011	-5.984	0.000	-0.086	-0.044
ln_ttime	-0.1430	0.028	-5.050	0.000	-0.198	-0.087
ln_capdist	0.1012	0.017	6.032	0.000	0.068	0.134
ln_pop	0.1665	0.015	11.456	0.000	0.138	0.195
gcp_li_mer	0.0357	0.014	2.496	0.013	0.008	0.064
imr_mean	0.0005	4.34e-05	11.363	0.000	0.000	0.001
excluded_dummy_li	0.2528	0.027	9.236	0.000	0.199	0.306

4.4.6 ns_eval

Dep. Variable:	ged_dummy_ns	**No. Observations:**	2434356
Model:	Logit	**Df Residuals:**	2434313
Method:	MLE	**Df Model:**	42
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.3146
Time:	21:53:07	**Log-Likelihood:**	-12636.
converged:	True	**LL-Null:**	-18436.

	coef	std err	z	P>|z|	[0.025	0.975]
Intercept	-15.5383	0.540	-28.761	0.000	-16.597	-14.479
l2_ged_dummy_ns	0.1949	0.080	2.424	0.015	0.037	0.352
l3_ged_dummy_ns	0.1522	0.083	1.840	0.066	-0.010	0.314
l4_ged_dummy_ns	0.1201	0.086	1.405	0.160	-0.047	0.288
l5_ged_dummy_ns	0.1879	0.088	2.127	0.033	0.015	0.361
l6_ged_dummy_ns	0.1401	0.093	1.514	0.130	-0.041	0.322
l7_ged_dummy_ns	0.1347	0.096	1.402	0.161	-0.054	0.323
l8_ged_dummy_ns	0.0319	0.101	0.317	0.751	-0.165	0.229
l9_ged_dummy_ns	0.4539	0.095	4.774	0.000	0.268	0.640
l10_ged_dummy_ns	0.4356	0.097	4.478	0.000	0.245	0.626
l11_ged_dummy_ns	0.1013	0.106	0.955	0.339	-0.107	0.309
l12_ged_dummy_ns	0.1779	0.106	1.675	0.094	-0.030	0.386
q_1_1_l2_ged_dummy_ns	0.2298	0.053	4.331	0.000	0.126	0.334
q_1_1_l3_ged_dummy_ns	0.2203	0.054	4.093	0.000	0.115	0.326
l1_ged_dummy_sb	-0.2801	0.146	-1.922	0.055	-0.566	0.005
l1_ged_dummy_ns	0.4132	0.081	5.132	0.000	0.255	0.571
l1_ged_dummy_os	0.1255	0.127	0.988	0.323	-0.123	0.374
l1_acled_dummy_pr	0.2610	0.109	2.390	0.017	0.047	0.475
decay_12_cw_ged_dummy_sb_0	0.7005	0.109	6.425	0.000	0.487	0.914
decay_12_cw_ged_dummy_ns_0	4.0104	0.098	41.063	0.000	3.819	4.202
decay_12_cw_ged_dummy_os_0	0.8241	0.108	7.664	0.000	0.613	1.035
decay_12_cw_acled_dummy_pr_0	0.5627	0.094	5.957	0.000	0.378	0.748
q_1_1_l1_ged_dummy_sb	-0.1832	0.059	-3.121	0.002	-0.298	-0.068
q_1_1_l1_ged_dummy_ns	0.6246	0.049	12.849	0.000	0.529	0.720
q_1_1_l1_ged_dummy_os	0.1752	0.049	3.564	0.000	0.079	0.272
q_1_1_l1_acled_dummy_pr	0.0014	0.040	0.036	0.972	-0.077	0.080
ln_dist_diamsec	0.4403	0.040	11.003	0.000	0.362	0.519
ln_dist_petroleum	0.5776	0.052	11.050	0.000	0.475	0.680
agri_ih_li	0.0113	0.002	5.189	0.000	0.007	0.016
barren_ih_li	-0.0017	0.002	-0.810	0.418	-0.006	0.002
forest_ih_li	0.0030	0.002	1.427	0.153	-0.001	0.007
mountains_mean	-0.4507	0.088	-5.114	0.000	-0.623	-0.278
savanna_ih_li	0.0064	0.002	3.121	0.002	0.002	0.010
shrub_ih_li	0.0196	0.002	8.599	0.000	0.015	0.024
pasture_ih_li	0.0098	0.002	5.519	0.000	0.006	0.013
urban_ih_li	0.0272	0.016	1.676	0.094	-0.005	0.059
ln_bdist3	-0.0595	0.018	-3.259	0.001	-0.095	-0.024
ln_ttime	0.1618	0.048	3.403	0.001	0.069	0.255
ln_capdist	0.1978	0.029	6.755	0.000	0.140	0.255
ln_pop	0.3006	0.025	11.823	0.000	0.251	0.350
gcp_li_mer	0.0402	0.028	1.447	0.148	-0.014	0.095
imr_mean	-0.0002	7.78e-05	-3.190	0.001	-0.000	-9.57e-05
excluded_dummy_li	0.2669	0.047	5.684	0.000	0.175	0.359

4.4.7 os_eval

Dep. Variable:	ged_dummy_os	**No. Observations:**	2434356
Model:	Logit	**Df Residuals:**	2434313
Method:	MLE	**Df Model:**	42
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.3970
Time:	21:53:07	**Log-Likelihood:**	-21960.
converged:	True	**LL-Null:**	-36417.

	coef	std err	z	P>|z|	[0.025	0.975]
Intercept	-9.8738	0.370	-26.655	0.000	-10.600	-9.148
l2_ged_dummy_os	0.0421	0.050	0.833	0.405	-0.057	0.141
l3_ged_dummy_os	0.0854	0.051	1.662	0.096	-0.015	0.186
l4_ged_dummy_os	0.0933	0.052	1.793	0.073	-0.009	0.195
l5_ged_dummy_os	0.0139	0.054	0.258	0.796	-0.092	0.119
l6_ged_dummy_os	0.1470	0.054	2.709	0.007	0.041	0.253
l7_ged_dummy_os	0.1488	0.055	2.691	0.007	0.040	0.257
l8_ged_dummy_os	0.0641	0.057	1.122	0.262	-0.048	0.176
l9_ged_dummy_os	0.0762	0.058	1.305	0.192	-0.038	0.190
l10_ged_dummy_os	0.0200	0.060	0.334	0.738	-0.097	0.137
l11_ged_dummy_os	0.1017	0.060	1.692	0.091	-0.016	0.219
l12_ged_dummy_os	0.2648	0.059	4.504	0.000	0.150	0.380
q_1_1_l2_ged_dummy_os	0.0972	0.024	3.981	0.000	0.049	0.145
q_1_1_l3_ged_dummy_os	0.0511	0.024	2.149	0.032	0.004	0.098
l1_ged_dummy_sb	0.0523	0.059	0.885	0.376	-0.063	0.168
l1_ged_dummy_ns	0.3661	0.130	2.812	0.005	0.111	0.621
l1_ged_dummy_os	0.3846	0.051	7.593	0.000	0.285	0.484
l1_acled_dummy_pr	0.1718	0.086	2.006	0.045	0.004	0.340
decay_12_cw_ged_dummy_sb_0	1.6647	0.064	26.003	0.000	1.539	1.790
decay_12_cw_ged_dummy_ns_0	0.6097	0.083	7.322	0.000	0.447	0.773
decay_12_cw_ged_dummy_os_0	3.4544	0.070	49.306	0.000	3.317	3.592
decay_12_cw_acled_dummy_pr_0	0.5995	0.069	8.743	0.000	0.465	0.734
q_1_1_l1_ged_dummy_sb	0.0330	0.022	1.474	0.140	-0.011	0.077
q_1_1_l1_ged_dummy_ns	0.1184	0.059	1.997	0.046	0.002	0.235
q_1_1_l1_ged_dummy_os	0.3696	0.023	15.758	0.000	0.324	0.416
q_1_1_l1_acled_dummy_pr	-0.0188	0.037	-0.504	0.614	-0.092	0.054
ln_dist_diamsec	-0.0833	0.024	-3.401	0.001	-0.131	-0.035
ln_dist_petroleum	0.1603	0.029	5.513	0.000	0.103	0.217
agri_ih_li	0.0024	0.001	1.657	0.097	-0.000	0.005
barren_ih_li	-0.0106	0.002	-6.613	0.000	-0.014	-0.007
forest_ih_li	0.0019	0.001	1.561	0.119	-0.000	0.004
mountains_mean	-0.1865	0.058	-3.205	0.001	-0.301	-0.072
savanna_ih_li	0.0068	0.001	6.047	0.000	0.005	0.009
shrub_ih_li	-0.0012	0.002	-0.591	0.554	-0.005	0.003
pasture_ih_li	-0.0003	0.001	-0.304	0.761	-0.003	0.002
urban_ih_li	0.0283	0.014	2.075	0.038	0.002	0.055
ln_bdist3	-0.0478	0.013	-3.654	0.000	-0.073	-0.022
ln_ttime	-0.1635	0.036	-4.514	0.000	-0.235	-0.093
ln_capdist	0.1687	0.017	9.695	0.000	0.135	0.203
ln_pop	0.1978	0.019	10.619	0.000	0.161	0.234
gcp_li_mer	0.0712	0.018	4.025	0.000	0.037	0.106
imr_mean	0.0003	5.7e-05	5.262	0.000	0.000	0.000
excluded_dummy_li	0.3142	0.033	9.451	0.000	0.249	0.379

4.4.8 pr_eval

Dep. Variable:	acled_dummy_pr	**No. Observations:**	2434356
Model:	Logit	**Df Residuals:**	2434313
Method:	MLE	**Df Model:**	42
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.4475
Time:	21:53:01	**Log-Likelihood:**	-49551.
converged:	True	**LL-Null:**	-89680.

	coef	std err	z	P>|z|	[0.025	0.975]
Intercept	-6.5392	0.202	-32.405	0.000	-6.935	-6.144
l2_acled_dummy_pr	0.1691	0.029	5.853	0.000	0.112	0.226
l3_acled_dummy_pr	0.2080	0.029	7.115	0.000	0.151	0.265
l4_acled_dummy_pr	0.2460	0.029	8.364	0.000	0.188	0.304
l5_acled_dummy_pr	0.2489	0.030	8.307	0.000	0.190	0.308
l6_acled_dummy_pr	0.2116	0.031	6.883	0.000	0.151	0.272
l7_acled_dummy_pr	0.2691	0.031	8.662	0.000	0.208	0.330
l8_acled_dummy_pr	0.3276	0.031	10.461	0.000	0.266	0.389
l9_acled_dummy_pr	0.2795	0.032	8.737	0.000	0.217	0.342
l10_acled_dummy_pr	0.2666	0.032	8.208	0.000	0.203	0.330
l11_acled_dummy_pr	0.3451	0.032	10.627	0.000	0.281	0.409
l12_acled_dummy_pr	0.3965	0.032	12.239	0.000	0.333	0.460
q_1_1_l2_acled_dummy_pr	0.0199	0.017	1.191	0.233	-0.013	0.053
q_1_1_l3_acled_dummy_pr	0.0471	0.016	2.900	0.004	0.015	0.079
l1_ged_dummy_sb	-0.3208	0.085	-3.790	0.000	-0.487	-0.155
l1_ged_dummy_ns	0.1141	0.119	0.958	0.338	-0.119	0.348
l1_ged_dummy_os	0.0037	0.090	0.041	0.967	-0.173	0.180
l1_acled_dummy_pr	0.2943	0.029	10.230	0.000	0.238	0.351
decay_12_cw_ged_dummy_sb_0	0.5892	0.061	9.732	0.000	0.471	0.708
decay_12_cw_ged_dummy_ns_0	0.3950	0.068	5.772	0.000	0.261	0.529
decay_12_cw_ged_dummy_os_0	0.2464	0.062	3.974	0.000	0.125	0.368
decay_12_cw_acled_dummy_pr_0	3.3144	0.039	84.598	0.000	3.238	3.391
q_1_1_l1_ged_dummy_sb	-0.1444	0.035	-4.073	0.000	-0.214	-0.075
q_1_1_l1_ged_dummy_ns	-0.0966	0.055	-1.744	0.081	-0.205	0.012
q_1_1_l1_ged_dummy_os	-0.0245	0.040	-0.620	0.535	-0.102	0.053
q_1_1_l1_acled_dummy_pr	0.2653	0.015	17.247	0.000	0.235	0.295
ln_dist_diamsec	-0.0252	0.014	-1.787	0.074	-0.053	0.002
ln_dist_petroleum	0.0448	0.017	2.679	0.007	0.012	0.077
agri_ih_li	0.0011	0.001	1.402	0.161	-0.000	0.003
barren_ih_li	0.0036	0.001	4.963	0.000	0.002	0.005
forest_ih_li	0.0012	0.001	1.459	0.145	-0.000	0.003
mountains_mean	0.1838	0.035	5.204	0.000	0.115	0.253
savanna_ih_li	0.0020	0.001	2.642	0.008	0.001	0.004
shrub_ih_li	0.0107	0.001	9.798	0.000	0.009	0.013
pasture_ih_li	0.0054	0.001	8.058	0.000	0.004	0.007
urban_ih_li	0.0248	0.006	4.167	0.000	0.013	0.036
ln_bdist3	-0.0924	0.008	-11.548	0.000	-0.108	-0.077
ln_ttime	-0.4449	0.020	-22.088	0.000	-0.484	-0.405
ln_capdist	-0.0191	0.009	-2.012	0.044	-0.038	-0.000
ln_pop	0.2847	0.010	27.375	0.000	0.264	0.305
gcp_li_mer	-0.0971	0.010	-10.150	0.000	-0.116	-0.078
imr_mean	-0.0002	3.3e-05	-5.762	0.000	-0.000	-0.000
excluded_dummy_li	-0.0651	0.023	-2.795	0.005	-0.111	-0.019

4.5 ds_pgm_acled_soc

4.5.1 sb_fcast

Dep. Variable:	ged_dummy_sb	**No. Observations:**	2872113
Model:	Logit	**Df Residuals:**	2872105
Method:	MLE	**Df Model:**	7
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.1057
Time:	21:40:03	**Log-Likelihood:**	-61413.
converged:	True	**LL-Null:**	-68671.

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
Intercept	-9.2377	0.199	-46.309	0.000	-9.629	-8.847
ln_bdist3	-0.2631	0.007	-36.775	0.000	-0.277	-0.249
ln_ttime	-0.2156	0.020	-10.923	0.000	-0.254	-0.177
ln_capdist	0.0035	0.012	0.296	0.767	-0.020	0.027
ln_pop	0.4705	0.009	54.324	0.000	0.454	0.487
gcp_li_mer	0.1713	0.008	22.395	0.000	0.156	0.186
imr_mean	0.0006	2.93e-05	18.878	0.000	0.000	0.001
excluded_dummy_li	0.7395	0.020	36.332	0.000	0.700	0.779

4.5.2 ns_fcast

Dep. Variable:	ged_dummy_ns	**No. Observations:**	2872113
Model:	Logit	**Df Residuals:**	2872105
Method:	MLE	**Df Model:**	7
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.08063
Time:	21:40:07	**Log-Likelihood:**	-24270.
converged:	True	**LL-Null:**	-26398.

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
Intercept	-16.1390	0.367	-43.933	0.000	-16.859	-15.419
ln_bdist3	-0.1002	0.013	-7.492	0.000	-0.126	-0.074
ln_ttime	0.0507	0.034	1.481	0.139	-0.016	0.118
ln_capdist	0.3907	0.023	16.766	0.000	0.345	0.436
ln_pop	0.6666	0.015	43.278	0.000	0.636	0.697
gcp_li_mer	0.0594	0.017	3.416	0.001	0.025	0.093
imr_mean	-0.0002	5.17e-05	-4.760	0.000	-0.000	-0.000
excluded_dummy_li	0.5105	0.035	14.409	0.000	0.441	0.580

4.5.3 os_fcast

Dep. Variable:	ged_dummy_os	**No. Observations:**	2872113
Model:	Logit	**Df Residuals:**	2872105
Method:	MLE	**Df Model:**	7
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.1255
Time:	21:40:07	**Log-Likelihood:**	-41610.
converged:	True	**LL-Null:**	-47583.

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
Intercept	-13.1381	0.261	-50.396	0.000	-13.649	-12.627
ln_bdist3	-0.2401	0.009	-26.749	0.000	-0.258	-0.223
ln_ttime	-0.2870	0.025	-11.397	0.000	-0.336	-0.238
ln_capdist	0.2093	0.015	14.165	0.000	0.180	0.238
ln_pop	0.6449	0.011	56.594	0.000	0.623	0.667
gcp_li_mer	0.0293	0.015	1.963	0.050	3.98e-05	0.059
imr_mean	0.0011	3.83e-05	29.164	0.000	0.001	0.001
excluded_dummy_li	0.6866	0.025	27.328	0.000	0.637	0.736

4.5.4 pr_fcast

Dep. Variable:	acled_dummy_pr	**No. Observations:**	2872113
Model:	Logit	**Df Residuals:**	2872105
Method:	MLE	**Df Model:**	7
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.2636
Time:	21:40:06	**Log-Likelihood:**	-1.0482e+05
converged:	True	**LL-Null:**	-1.4234e+05

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
Intercept	-6.7651	0.132	-51.161	0.000	-7.024	-6.506
ln_bdist3	-0.1402	0.005	-27.962	0.000	-0.150	-0.130
ln_ttime	-0.7748	0.014	-55.843	0.000	-0.802	-0.748
ln_capdist	-0.0637	0.007	-8.784	0.000	-0.078	-0.049
ln_pop	0.6908	0.006	112.737	0.000	0.679	0.703
gcp_li_mer	0.0650	0.005	12.516	0.000	0.055	0.075
imr_mean	-0.0006	2.06e-05	-28.138	0.000	-0.001	-0.001
excluded_dummy_li	-0.0296	0.016	-1.910	0.056	-0.060	0.001

4.5.5 sb_eval

Dep. Variable:	ged_dummy_sb	**No. Observations:**	2434356
Model:	Logit	**Df Residuals:**	2434348
Method:	MLE	**Df Model:**	7
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.1104
Time:	21:35:56	**Log-Likelihood:**	-47201.
converged:	True	**LL-Null:**	-53061.

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
Intercept	-8.9762	0.228	-39.366	0.000	-9.423	-8.529
ln_bdist3	-0.2554	0.008	-31.187	0.000	-0.271	-0.239
ln_ttime	-0.1851	0.023	-8.163	0.000	-0.230	-0.141
ln_capdist	-0.0811	0.013	-6.099	0.000	-0.107	-0.055
ln_pop	0.4755	0.010	47.755	0.000	0.456	0.495
gcp_li_mer	0.1663	0.009	18.862	0.000	0.149	0.184
imr_mean	0.0003	3.33e-05	10.228	0.000	0.000	0.000
excluded_dummy_li	0.8981	0.023	38.307	0.000	0.852	0.944

4.5.6 ns_eval

Dep. Variable:	ged_dummy_ns	**No. Observations:**	2434356
Model:	Logit	**Df Residuals:**	2434348
Method:	MLE	**Df Model:**	7
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.08628
Time:	21:35:57	**Log-Likelihood:**	-16845.
converged:	True	**LL-Null:**	-18436.

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
Intercept	-16.9305	0.445	-38.008	0.000	-17.804	-16.057
ln_bdist3	-0.1334	0.016	-8.413	0.000	-0.164	-0.102
ln_ttime	0.1740	0.041	4.199	0.000	0.093	0.255
ln_capdist	0.2941	0.028	10.690	0.000	0.240	0.348
ln_pop	0.6987	0.019	37.121	0.000	0.662	0.736
gcp_li_mer	0.1201	0.018	6.672	0.000	0.085	0.155
imr_mean	-0.0001	6.3e-05	-1.856	0.064	-0.000	6.57e-06
excluded_dummy_li	0.6841	0.043	15.957	0.000	0.600	0.768

4.5.7 os_eval

Dep. Variable:	ged_dummy_os	**No. Observations:**	2434356
Model:	Logit	**Df Residuals:**	2434348
Method:	MLE	**Df Model:**	7
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.1239
Time:	21:35:57	**Log-Likelihood:**	-31903.
converged:	True	**LL-Null:**	-36417.

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
Intercept	-12.5693	0.299	-42.091	0.000	-13.155	-11.984
ln_bdist3	-0.2427	0.010	-23.573	0.000	-0.263	-0.222
ln_ttime	-0.3168	0.029	-10.945	0.000	-0.374	-0.260
ln_capdist	0.1668	0.017	9.914	0.000	0.134	0.200
ln_pop	0.6194	0.013	47.385	0.000	0.594	0.645
gcp_li_mer	0.0670	0.016	4.275	0.000	0.036	0.098
imr_mean	0.0011	4.36e-05	25.690	0.000	0.001	0.001
excluded_dummy_li	0.7770	0.029	26.780	0.000	0.720	0.834

4.5.8 pr_eval

Dep. Variable:	acled_dummy_pr	**No. Observations:**	2434356
Model:	Logit	**Df Residuals:**	2434348
Method:	MLE	**Df Model:**	7
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.2634
Time:	21:35:56	**Log-Likelihood:**	-66056.
converged:	True	**LL-Null:**	-89680.

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
Intercept	-6.6666	0.169	-39.426	0.000	-6.998	-6.335
ln_bdist3	-0.1465	0.006	-23.004	0.000	-0.159	-0.134
ln_ttime	-0.8261	0.018	-46.377	0.000	-0.861	-0.791
ln_capdist	-0.0985	0.009	-10.859	0.000	-0.116	-0.081
ln_pop	0.6821	0.008	86.304	0.000	0.667	0.698
gcp_li_mer	0.0661	0.006	10.378	0.000	0.054	0.079
imr_mean	-0.0004	2.64e-05	-15.369	0.000	-0.000	-0.000
excluded_dummy_li	-0.1210	0.020	-5.912	0.000	-0.161	-0.081

4.6 ds_pgm_acled_nat

4.6.1 sb_fcast

Dep. Variable:	ged_dummy_sb	**No. Observations:**	2872113
Model:	Logit	**Df Residuals:**	2872102
Method:	MLE	**Df Model:**	10
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.08466
Time:	21:27:11	**Log-Likelihood:**	-62857.
converged:	True	**LL-Null:**	-68671.

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
Intercept	-6.3468	0.073	-87.174	0.000	-6.489	-6.204
ln_dist_diamsec	0.5636	0.015	38.492	0.000	0.535	0.592
ln_dist_petroleum	0.0354	0.017	2.100	0.036	0.002	0.068
agri_ih_li	0.0120	0.001	17.673	0.000	0.011	0.013
barren_ih_li	-0.0296	0.001	-39.972	0.000	-0.031	-0.028
forest_ih_li	-0.0032	0.001	-4.321	0.000	-0.005	-0.002
mountains_mean	0.4625	0.032	14.491	0.000	0.400	0.525
savanna_ih_li	-0.0129	0.001	-16.750	0.000	-0.014	-0.011
shrub_ih_li	0.0052	0.001	6.730	0.000	0.004	0.007
pasture_ih_li	-0.0046	0.001	-7.762	0.000	-0.006	-0.003
urban_ih_li	0.1601	0.004	36.659	0.000	0.152	0.169

4.6.2 ns_fcast

Dep. Variable:	ged_dummy_ns	**No. Observations:**	2872113
Model:	Logit	**Df Residuals:**	2872102
Method:	MLE	**Df Model:**	10
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.07498
Time:	21:27:12	**Log-Likelihood:**	-24419.
converged:	True	**LL-Null:**	-26398.

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
Intercept	-9.2651	0.152	-60.960	0.000	-9.563	-8.967
ln_dist_diamsec	0.3739	0.025	14.807	0.000	0.324	0.423
ln_dist_petroleum	0.4979	0.035	14.347	0.000	0.430	0.566
agri_ih_li	0.0316	0.001	23.362	0.000	0.029	0.034
barren_ih_li	-0.0139	0.001	-9.542	0.000	-0.017	-0.011
forest_ih_li	0.0058	0.001	3.912	0.000	0.003	0.009
mountains_mean	0.0540	0.061	0.885	0.376	-0.066	0.174
savanna_ih_li	0.0008	0.001	0.530	0.596	-0.002	0.004
shrub_ih_li	0.0165	0.002	10.293	0.000	0.013	0.020
pasture_ih_li	0.0061	0.001	4.864	0.000	0.004	0.009
urban_ih_li	0.1816	0.007	26.298	0.000	0.168	0.195

4.6.3 os_fcast

Dep. Variable:	ged_dummy_os	**No. Observations:**	2872113
Model:	Logit	**Df Residuals:**	2872102
Method:	MLE	**Df Model:**	10
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.08833
Time:	21:27:12	**Log-Likelihood:**	-43380.
converged:	True	**LL-Null:**	-47583.

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
Intercept	-8.3089	0.101	-82.480	0.000	-8.506	-8.111
ln_dist_diamsec	-0.0179	0.017	-1.077	0.282	-0.051	0.015
ln_dist_petroleum	0.8849	0.028	31.803	0.000	0.830	0.939
agri_ih_li	0.0232	0.001	25.956	0.000	0.021	0.025
barren_ih_li	-0.0237	0.001	-19.862	0.000	-0.026	-0.021
forest_ih_li	0.0065	0.001	7.684	0.000	0.005	0.008
mountains_mean	0.9843	0.039	25.413	0.000	0.908	1.060
savanna_ih_li	0.0026	0.001	3.136	0.002	0.001	0.004
shrub_ih_li	-0.0145	0.002	-9.062	0.000	-0.018	-0.011
pasture_ih_li	-0.0049	0.001	-5.920	0.000	-0.007	-0.003
urban_ih_li	0.1965	0.005	36.062	0.000	0.186	0.207

4.6.4 pr_fcast

Dep. Variable:	acled_dummy_pr	**No. Observations:**	2872113
Model:	Logit	**Df Residuals:**	2872102
Method:	MLE	**Df Model:**	10
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.1749
Time:	21:27:10	**Log-Likelihood:**	-1.1744e+05
converged:	True	**LL-Null:**	-1.4234e+05

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
Intercept	-4.9273	0.049	-101.293	0.000	-5.023	-4.832
ln_dist_diamsec	0.0870	0.009	9.495	0.000	0.069	0.105
ln_dist_petroleum	-0.0126	0.011	-1.108	0.268	-0.035	0.010
agri_ih_li	0.0297	0.000	67.601	0.000	0.029	0.031
barren_ih_li	-0.0185	0.000	-38.797	0.000	-0.019	-0.018
forest_ih_li	-0.0080	0.001	-14.691	0.000	-0.009	-0.007
mountains_mean	0.7827	0.022	35.761	0.000	0.740	0.826
savanna_ih_li	-0.0127	0.001	-24.340	0.000	-0.014	-0.012
shrub_ih_li	-0.0038	0.001	-5.527	0.000	-0.005	-0.002
pasture_ih_li	-0.0062	0.000	-14.244	0.000	-0.007	-0.005
urban_ih_li	0.3479	0.003	126.772	0.000	0.342	0.353

4.6.5 sb_eval

Dep. Variable:	ged_dummy_sb	**No. Observations:**	2434356
Model:	Logit	**Df Residuals:**	2434345
Method:	MLE	**Df Model:**	10
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.09570
Time:	21:27:04	**Log-Likelihood:**	-47983.
converged:	True	**LL-Null:**	-53061.

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
Intercept	-6.2063	0.082	-76.041	0.000	-6.366	-6.046
ln_dist_diamsec	0.5774	0.017	34.375	0.000	0.545	0.610
ln_dist_petroleum	-0.0313	0.019	-1.631	0.103	-0.069	0.006
agri_ih_li	0.0103	0.001	13.603	0.000	0.009	0.012
barren_ih_li	-0.0343	0.001	-38.929	0.000	-0.036	-0.033
forest_ih_li	-0.0047	0.001	-5.661	0.000	-0.006	-0.003
mountains_mean	0.6758	0.035	19.048	0.000	0.606	0.745
savanna_ih_li	-0.0144	0.001	-16.580	0.000	-0.016	-0.013
shrub_ih_li	0.0054	0.001	6.291	0.000	0.004	0.007
pasture_ih_li	-0.0076	0.001	-11.405	0.000	-0.009	-0.006
urban_ih_li	0.1705	0.005	32.528	0.000	0.160	0.181

4.6.6 ns_eval

Dep. Variable:	ged_dummy_ns	**No. Observations:**	2434356
Model:	Logit	**Df Residuals:**	2434345
Method:	MLE	**Df Model:**	10
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.08814
Time:	21:27:06	**Log-Likelihood:**	-16811.
converged:	True	**LL-Null:**	-18436.

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
Intercept	-11.0062	0.196	-56.287	0.000	-11.389	-10.623
ln_dist_diamsec	0.5512	0.032	17.290	0.000	0.489	0.614
ln_dist_petroleum	0.8310	0.046	17.939	0.000	0.740	0.922
agri_ih_li	0.0343	0.002	20.304	0.000	0.031	0.038
barren_ih_li	-0.0123	0.002	-6.686	0.000	-0.016	-0.009
forest_ih_li	0.0112	0.002	6.136	0.000	0.008	0.015
mountains_mean	0.0680	0.074	0.924	0.355	-0.076	0.212
savanna_ih_li	0.0021	0.002	1.119	0.263	-0.002	0.006
shrub_ih_li	0.0229	0.002	12.016	0.000	0.019	0.027
pasture_ih_li	0.0104	0.002	6.781	0.000	0.007	0.013
urban_ih_li	0.2114	0.008	26.126	0.000	0.196	0.227

4.6.7 os_eval

Dep. Variable:	ged_dummy_os	**No. Observations:**	2434356
Model:	Logit	**Df Residuals:**	2434345
Method:	MLE	**Df Model:**	10
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.08844
Time:	21:27:06	**Log-Likelihood:**	-33196.
converged:	True	**LL-Null:**	-36417.

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
Intercept	-8.3903	0.115	-72.685	0.000	-8.617	-8.164
ln_dist_diamsec	-0.0431	0.019	-2.256	0.024	-0.081	-0.006
ln_dist_petroleum	0.8710	0.032	27.352	0.000	0.809	0.933
agri_ih_li	0.0233	0.001	22.502	0.000	0.021	0.025
barren_ih_li	-0.0241	0.001	-17.047	0.000	-0.027	-0.021
forest_ih_li	0.0079	0.001	8.225	0.000	0.006	0.010
mountains_mean	1.0361	0.044	23.326	0.000	0.949	1.123
savanna_ih_li	0.0026	0.001	2.668	0.008	0.001	0.004
shrub_ih_li	-0.0148	0.002	-7.932	0.000	-0.019	-0.011
pasture_ih_li	-0.0048	0.001	-4.970	0.000	-0.007	-0.003
urban_ih_li	0.2084	0.007	31.751	0.000	0.196	0.221

4.6.8 pr_eval

Dep. Variable:	acled_dummy_pr	**No. Observations:**	2434356
Model:	Logit	**Df Residuals:**	2434345
Method:	MLE	**Df Model:**	10
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.1679
Time:	21:27:03	**Log-Likelihood:**	-74621.
converged:	True	**LL-Null:**	-89680.

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
Intercept	-5.1900	0.062	-84.027	0.000	-5.311	-5.069
ln_dist_diamsec	-0.0120	0.012	-1.034	0.301	-0.035	0.011
ln_dist_petroleum	0.0813	0.015	5.385	0.000	0.052	0.111
agri_ih_li	0.0288	0.001	52.236	0.000	0.028	0.030
barren_ih_li	-0.0183	0.001	-30.174	0.000	-0.019	-0.017
forest_ih_li	-0.0099	0.001	-14.196	0.000	-0.011	-0.009
mountains_mean	0.6659	0.029	22.998	0.000	0.609	0.723
savanna_ih_li	-0.0134	0.001	-20.566	0.000	-0.015	-0.012
shrub_ih_li	-0.0028	0.001	-3.173	0.002	-0.004	-0.001
pasture_ih_li	-0.0081	0.001	-14.645	0.000	-0.009	-0.007
urban_ih_li	0.3508	0.003	112.154	0.000	0.345	0.357

4.7 ds_pgm_acled_mean

4.7.1 sb_fcast

Dep. Variable:	ged_dummy_sb	**No. Observations:**	2872113
Model:	Logit	**Df Residuals:**	2872111
Method:	MLE	**Df Model:**	1
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.1897
Time:	21:21:51	**Log-Likelihood:**	-55642.
converged:	True	**LL-Null:**	-68671.

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
Intercept	-6.0229	0.012	-510.510	0.000	-6.046	-6.000
mean_ged_dummy_sb	25.2726	0.190	133.326	0.000	24.901	25.644

4.7.2 ns_fcast

Dep. Variable:	ged_dummy_ns	**No. Observations:**	2872113
Model:	Logit	**Df Residuals:**	2872111
Method:	MLE	**Df Model:**	1
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.1149
Time:	21:21:52	**Log-Likelihood:**	-23364.
converged:	True	**LL-Null:**	-26398.

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
Intercept	-6.9974	0.019	-364.183	0.000	-7.035	-6.960
mean_ged_dummy_ns	40.1012	0.358	112.070	0.000	39.400	40.803

4.7.3 os_fcast

Dep. Variable:	ged_dummy_os	**No. Observations:**	2872113
Model:	Logit	**Df Residuals:**	2872111
Method:	MLE	**Df Model:**	1
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.1653
Time:	21:21:51	**Log-Likelihood:**	-39718.
converged:	True	**LL-Null:**	-47583.

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
Intercept	-6.4083	0.014	-450.084	0.000	-6.436	-6.380
mean_ged_dummy_os	32.6219	0.248	131.291	0.000	32.135	33.109

4.7.4 pr_fcast

Dep. Variable:	acled_dummy_pr	**No. Observations:**	2872113
Model:	Logit	**Df Residuals:**	2872111
Method:	MLE	**Df Model:**	1
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.2697
Time:	21:21:50	**Log-Likelihood:**	-1.0396e+05
converged:	True	**LL-Null:**	-1.4234e+05

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
Intercept	-5.3762	0.008	-635.975	0.000	-5.393	-5.360
mean_acled_dummy_pr	21.5116	0.082	262.872	0.000	21.351	21.672

4.7.5 sb_eval

Dep. Variable:	ged_dummy_sb	**No. Observations:**	2434356
Model:	Logit	**Df Residuals:**	2434354
Method:	MLE	**Df Model:**	1
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.1930
Time:	21:21:41	**Log-Likelihood:**	-42819.
converged:	True	**LL-Null:**	-53061.

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
Intercept	-6.1098	0.013	-456.368	0.000	-6.136	-6.084
mean_ged_dummy_sb	26.7684	0.247	108.554	0.000	26.285	27.252

4.7.6 ns_eval

Dep. Variable:	ged_dummy_ns	**No. Observations:**	2434356
Model:	Logit	**Df Residuals:**	2434354
Method:	MLE	**Df Model:**	1
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.09479
Time:	21:21:41	**Log-Likelihood:**	-16688.
converged:	True	**LL-Null:**	-18436.

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
Intercept	-7.1665	0.023	-314.302	0.000	-7.211	-7.122
mean_ged_dummy_ns	39.3931	0.447	88.144	0.000	38.517	40.269

4.7.7 os_eval

Dep. Variable:	ged_dummy_os	**No. Observations:**	2434356
Model:	Logit	**Df Residuals:**	2434354
Method:	MLE	**Df Model:**	1
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.1682
Time:	21:21:41	**Log-Likelihood:**	-30293.
converged:	True	**LL-Null:**	-36417.

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
Intercept	-6.5415	0.017	-395.852	0.000	-6.574	-6.509
mean_ged_dummy_os	39.6625	0.318	124.838	0.000	39.040	40.285

4.7.8 pr_eval

Dep. Variable:	acled_dummy_pr	**No. Observations:**	2434356
Model:	Logit	**Df Residuals:**	2434354
Method:	MLE	**Df Model:**	1
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.2642
Time:	21:21:40	**Log-Likelihood:**	-65985.
converged:	True	**LL-Null:**	-89680.

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
Intercept	-5.6813	0.011	-529.418	0.000	-5.702	-5.660
mean_acled_dummy_pr	27.3113	0.128	213.878	0.000	27.061	27.562

4.8 ds_pgm_acled_histonly

4.8.1 sb_fcast

Dep. Variable:	ged_dummy_sb	**No. Observations:**	2872113
Model:	Logit	**Df Residuals:**	2872087
Method:	MLE	**Df Model:**	25
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.4154
Time:	21:39:17	**Log-Likelihood:**	-40145.
converged:	True	**LL-Null:**	-68671.

	coef	std err	z	P>|z|	[0.025	0.975]
Intercept	-6.9865	0.019	-367.637	0.000	-7.024	-6.949
l2_ged_dummy_sb	0.0782	0.033	2.367	0.018	0.013	0.143
l3_ged_dummy_sb	0.0906	0.034	2.693	0.007	0.025	0.157
l4_ged_dummy_sb	0.1605	0.034	4.714	0.000	0.094	0.227
l5_ged_dummy_sb	0.1913	0.035	5.488	0.000	0.123	0.260
l6_ged_dummy_sb	0.0757	0.036	2.082	0.037	0.004	0.147
l7_ged_dummy_sb	0.2040	0.037	5.578	0.000	0.132	0.276
l8_ged_dummy_sb	0.2549	0.037	6.887	0.000	0.182	0.327
l9_ged_dummy_sb	0.2792	0.038	7.438	0.000	0.206	0.353
l10_ged_dummy_sb	0.2173	0.038	5.675	0.000	0.142	0.292
l11_ged_dummy_sb	0.2641	0.038	6.872	0.000	0.189	0.339
l12_ged_dummy_sb	0.3056	0.038	7.972	0.000	0.230	0.381
q_1_1_l2_ged_dummy_sb	0.1346	0.017	8.068	0.000	0.102	0.167
q_1_1_l3_ged_dummy_sb	0.0713	0.016	4.322	0.000	0.039	0.104
l1_ged_dummy_sb	0.0819	0.033	2.459	0.014	0.017	0.147
l1_ged_dummy_ns	-0.2092	0.132	-1.584	0.113	-0.468	0.050
l1_ged_dummy_os	0.1298	0.050	2.583	0.010	0.031	0.228
l1_acled_dummy_pr	0.0099	0.064	0.155	0.877	-0.116	0.135
decay_12_cw_ged_dummy_sb_0	4.6596	0.043	107.236	0.000	4.574	4.745
decay_12_cw_ged_dummy_ns_0	0.2664	0.072	3.688	0.000	0.125	0.408
decay_12_cw_ged_dummy_os_0	0.9147	0.045	20.156	0.000	0.826	1.004
decay_12_cw_acled_dummy_pr_0	0.6707	0.047	14.264	0.000	0.579	0.763
q_1_1_l1_ged_dummy_sb	0.2915	0.016	17.906	0.000	0.260	0.323
q_1_1_l1_ged_dummy_ns	-0.1986	0.055	-3.585	0.000	-0.307	-0.090
q_1_1_l1_ged_dummy_os	-0.0030	0.019	-0.155	0.876	-0.041	0.035
q_1_1_l1_acled_dummy_pr	0.0381	0.023	1.652	0.098	-0.007	0.083

4.8.2 ns_fcast

Dep. Variable:	ged_dummy_ns	**No. Observations:**	2872113
Model:	Logit	**Df Residuals:**	2872087
Method:	MLE	**Df Model:**	25
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.3009
Time:	21:39:19	**Log-Likelihood:**	-18454.
converged:	True	**LL-Null:**	-26398.

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
Intercept	-7.6800	0.027	-289.550	0.000	-7.732	-7.628
l2_ged_dummy_ns	0.0384	0.065	0.594	0.553	-0.088	0.165
l3_ged_dummy_ns	0.0122	0.067	0.181	0.856	-0.120	0.144
l4_ged_dummy_ns	-0.0248	0.070	-0.353	0.724	-0.162	0.113
l5_ged_dummy_ns	0.2029	0.071	2.868	0.004	0.064	0.342
l6_ged_dummy_ns	0.1718	0.074	2.316	0.021	0.026	0.317
l7_ged_dummy_ns	0.1714	0.077	2.226	0.026	0.020	0.322
l8_ged_dummy_ns	0.1324	0.080	1.650	0.099	-0.025	0.290
l9_ged_dummy_ns	0.3633	0.079	4.571	0.000	0.207	0.519
l10_ged_dummy_ns	0.3659	0.081	4.504	0.000	0.207	0.525
l11_ged_dummy_ns	0.2514	0.084	2.979	0.003	0.086	0.417
l12_ged_dummy_ns	0.2884	0.085	3.402	0.001	0.122	0.455
q_1_1_l2_ged_dummy_ns	0.2518	0.039	6.435	0.000	0.175	0.328
q_1_1_l3_ged_dummy_ns	0.1822	0.041	4.460	0.000	0.102	0.262
l1_ged_dummy_sb	-0.3900	0.117	-3.334	0.001	-0.619	-0.161
l1_ged_dummy_ns	0.1809	0.065	2.794	0.005	0.054	0.308
l1_ged_dummy_os	0.0380	0.102	0.372	0.710	-0.162	0.238
l1_acled_dummy_pr	-0.0199	0.083	-0.242	0.809	-0.182	0.142
decay_12_cw_ged_dummy_sb_0	0.9530	0.089	10.657	0.000	0.778	1.128
decay_12_cw_ged_dummy_ns_0	4.8488	0.077	62.839	0.000	4.698	5.000
decay_12_cw_ged_dummy_os_0	0.6617	0.086	7.690	0.000	0.493	0.830
decay_12_cw_acled_dummy_pr_0	1.0582	0.071	14.877	0.000	0.919	1.198
q_1_1_l1_ged_dummy_sb	-0.0283	0.040	-0.717	0.473	-0.106	0.049
q_1_1_l1_ged_dummy_ns	0.5490	0.037	14.704	0.000	0.476	0.622
q_1_1_l1_ged_dummy_os	0.0210	0.040	0.521	0.603	-0.058	0.100
q_1_1_l1_acled_dummy_pr	0.1244	0.028	4.515	0.000	0.070	0.178

4.8.3 os_fcast

Dep. Variable:	ged_dummy_os	**No. Observations:**	2872113
Model:	Logit	**Df Residuals:**	2872087
Method:	MLE	**Df Model:**	25
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.3815
Time:	21:39:17	**Log-Likelihood:**	-29430.
converged:	True	**LL-Null:**	-47583.

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
Intercept	-7.2696	0.022	-337.740	0.000	-7.312	-7.227
l2_ged_dummy_os	0.0115	0.043	0.267	0.790	-0.073	0.096
l3_ged_dummy_os	0.0897	0.044	2.044	0.041	0.004	0.176
l4_ged_dummy_os	0.0854	0.045	1.908	0.056	-0.002	0.173
l5_ged_dummy_os	0.0945	0.046	2.054	0.040	0.004	0.185
l6_ged_dummy_os	0.1734	0.047	3.706	0.000	0.082	0.265
l7_ged_dummy_os	0.1752	0.048	3.653	0.000	0.081	0.269
l8_ged_dummy_os	0.0640	0.050	1.283	0.200	-0.034	0.162
l9_ged_dummy_os	0.0984	0.051	1.939	0.052	-0.001	0.198
l10_ged_dummy_os	0.0244	0.052	0.466	0.641	-0.078	0.127
l11_ged_dummy_os	0.1649	0.052	3.165	0.002	0.063	0.267
l12_ged_dummy_os	0.2903	0.051	5.677	0.000	0.190	0.391
q_1_1_l2_ged_dummy_os	0.1468	0.021	6.921	0.000	0.105	0.188
q_1_1_l3_ged_dummy_os	0.0806	0.021	3.918	0.000	0.040	0.121
l1_ged_dummy_sb	0.0559	0.050	1.120	0.263	-0.042	0.154
l1_ged_dummy_ns	0.2161	0.107	2.029	0.042	0.007	0.425
l1_ged_dummy_os	0.2801	0.043	6.446	0.000	0.195	0.365
l1_acled_dummy_pr	0.1745	0.065	2.691	0.007	0.047	0.302
decay_12_cw_ged_dummy_sb_0	1.6009	0.055	28.995	0.000	1.493	1.709
decay_12_cw_ged_dummy_ns_0	0.6054	0.070	8.654	0.000	0.468	0.742
decay_12_cw_ged_dummy_os_0	3.9539	0.060	65.790	0.000	3.836	4.072
decay_12_cw_acled_dummy_pr_0	0.9713	0.054	18.146	0.000	0.866	1.076
q_1_1_l1_ged_dummy_sb	0.0304	0.018	1.672	0.095	-0.005	0.066
q_1_1_l1_ged_dummy_ns	0.1000	0.044	2.266	0.023	0.014	0.187
q_1_1_l1_ged_dummy_os	0.3838	0.020	18.838	0.000	0.344	0.424
q_1_1_l1_acled_dummy_pr	0.0508	0.024	2.155	0.031	0.005	0.097

4.8.4 pr_fcast

Dep. Variable:	acled_dummy_pr	**No. Observations:**	2872113
Model:	Logit	**Df Residuals:**	2872087
Method:	MLE	**Df Model:**	25
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.4443
Time:	21:39:15	**Log-Likelihood:**	-79098.
converged:	True	**LL-Null:**	-1.4234e+05

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
Intercept	-6.3231	0.014	-455.576	0.000	-6.350	-6.296
l2_acled_dummy_pr	0.1575	0.021	7.433	0.000	0.116	0.199
l3_acled_dummy_pr	0.2026	0.021	9.425	0.000	0.160	0.245
l4_acled_dummy_pr	0.2706	0.022	12.512	0.000	0.228	0.313
l5_acled_dummy_pr	0.2646	0.022	11.955	0.000	0.221	0.308
l6_acled_dummy_pr	0.2771	0.023	12.253	0.000	0.233	0.321
l7_acled_dummy_pr	0.3315	0.023	14.477	0.000	0.287	0.376
l8_acled_dummy_pr	0.3684	0.023	15.918	0.000	0.323	0.414
l9_acled_dummy_pr	0.3315	0.024	14.089	0.000	0.285	0.378
l10_acled_dummy_pr	0.3069	0.024	12.867	0.000	0.260	0.354
l11_acled_dummy_pr	0.3973	0.024	16.727	0.000	0.351	0.444
l12_acled_dummy_pr	0.5260	0.023	22.461	0.000	0.480	0.572
q_1_1_l2_acled_dummy_pr	0.0492	0.011	4.397	0.000	0.027	0.071
q_1_1_l3_acled_dummy_pr	0.0429	0.011	3.966	0.000	0.022	0.064
l1_ged_dummy_sb	-0.0802	0.066	-1.215	0.224	-0.210	0.049
l1_ged_dummy_ns	0.1276	0.089	1.431	0.153	-0.047	0.303
l1_ged_dummy_os	-0.0135	0.068	-0.198	0.843	-0.147	0.120
l1_acled_dummy_pr	0.1884	0.021	8.888	0.000	0.147	0.230
decay_12_cw_ged_dummy_sb_0	0.4364	0.046	9.447	0.000	0.346	0.527
decay_12_cw_ged_dummy_ns_0	0.3066	0.053	5.820	0.000	0.203	0.410
decay_12_cw_ged_dummy_os_0	0.3450	0.046	7.474	0.000	0.255	0.435
decay_12_cw_acled_dummy_pr_0	4.3117	0.028	152.330	0.000	4.256	4.367
q_1_1_l1_ged_dummy_sb	-0.0462	0.026	-1.758	0.079	-0.098	0.005
q_1_1_l1_ged_dummy_ns	-0.0694	0.037	-1.877	0.061	-0.142	0.003
q_1_1_l1_ged_dummy_os	-0.0398	0.029	-1.391	0.164	-0.096	0.016
q_1_1_l1_acled_dummy_pr	0.2526	0.010	24.240	0.000	0.232	0.273

4.8.5 sb_eval

Dep. Variable:	ged_dummy_sb	**No. Observations:**	2434356
Model:	Logit	**Df Residuals:**	2434330
Method:	MLE	**Df Model:**	25
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.4039
Time:	21:39:02	**Log-Likelihood:**	-31632.
converged:	True	**LL-Null:**	-53061.

	coef	std err	z	P>|z|	[0.025	0.975]
Intercept	-7.0361	0.021	-332.195	0.000	-7.078	-6.995
l2_ged_dummy_sb	0.0392	0.038	1.024	0.306	-0.036	0.114
l3_ged_dummy_sb	0.1071	0.039	2.753	0.006	0.031	0.183
l4_ged_dummy_sb	0.1656	0.039	4.209	0.000	0.088	0.243
l5_ged_dummy_sb	0.1751	0.040	4.332	0.000	0.096	0.254
l6_ged_dummy_sb	0.0798	0.042	1.893	0.058	-0.003	0.163
l7_ged_dummy_sb	0.1610	0.043	3.770	0.000	0.077	0.245
l8_ged_dummy_sb	0.2986	0.043	6.976	0.000	0.215	0.382
l9_ged_dummy_sb	0.3105	0.044	7.135	0.000	0.225	0.396
l10_ged_dummy_sb	0.2142	0.045	4.795	0.000	0.127	0.302
l11_ged_dummy_sb	0.2914	0.045	6.495	0.000	0.203	0.379
l12_ged_dummy_sb	0.2667	0.045	5.920	0.000	0.178	0.355
q_1_1_l2_ged_dummy_sb	0.1336	0.020	6.746	0.000	0.095	0.172
q_1_1_l3_ged_dummy_sb	0.0991	0.019	5.081	0.000	0.061	0.137
l1_ged_dummy_sb	0.1425	0.038	3.718	0.000	0.067	0.218
l1_ged_dummy_ns	-0.2227	0.164	-1.360	0.174	-0.544	0.098
l1_ged_dummy_os	0.1783	0.058	3.052	0.002	0.064	0.293
l1_acled_dummy_pr	-0.0141	0.082	-0.171	0.864	-0.176	0.147
decay_12_cw_ged_dummy_sb_0	4.6961	0.049	95.131	0.000	4.599	4.793
decay_12_cw_ged_dummy_ns_0	0.4416	0.086	5.149	0.000	0.273	0.610
decay_12_cw_ged_dummy_os_0	0.9136	0.052	17.452	0.000	0.811	1.016
decay_12_cw_acled_dummy_pr_0	0.6722	0.057	11.827	0.000	0.561	0.784
q_1_1_l1_ged_dummy_sb	0.2987	0.019	15.552	0.000	0.261	0.336
q_1_1_l1_ged_dummy_ns	-0.2585	0.078	-3.293	0.001	-0.412	-0.105
q_1_1_l1_ged_dummy_os	-0.0182	0.022	-0.818	0.414	-0.062	0.025
q_1_1_l1_acled_dummy_pr	0.0697	0.033	2.087	0.037	0.004	0.135

4.8.6 ns_eval

Dep. Variable:	ged_dummy_ns	**No. Observations:**	2434356
Model:	Logit	**Df Residuals:**	2434330
Method:	MLE	**Df Model:**	25
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.2839
Time:	21:39:04	**Log-Likelihood:**	-13202.
converged:	True	**LL-Null:**	-18436.

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
Intercept	-7.8264	0.031	-251.368	0.000	-7.887	-7.765
l2_ged_dummy_ns	0.0379	0.080	0.474	0.635	-0.119	0.195
l3_ged_dummy_ns	0.0358	0.082	0.434	0.664	-0.126	0.197
l4_ged_dummy_ns	0.0425	0.085	0.499	0.618	-0.125	0.210
l5_ged_dummy_ns	0.1401	0.088	1.589	0.112	-0.033	0.313
l6_ged_dummy_ns	0.1207	0.093	1.301	0.193	-0.061	0.302
l7_ged_dummy_ns	0.1292	0.096	1.340	0.180	-0.060	0.318
l8_ged_dummy_ns	0.0491	0.101	0.484	0.628	-0.150	0.248
l9_ged_dummy_ns	0.4716	0.096	4.908	0.000	0.283	0.660
l10_ged_dummy_ns	0.4787	0.098	4.874	0.000	0.286	0.671
l11_ged_dummy_ns	0.1548	0.107	1.440	0.150	-0.056	0.365
l12_ged_dummy_ns	0.2438	0.108	2.258	0.024	0.032	0.455
q_1_1_l2_ged_dummy_ns	0.2552	0.053	4.778	0.000	0.151	0.360
q_1_1_l3_ged_dummy_ns	0.2263	0.054	4.168	0.000	0.120	0.333
l1_ged_dummy_sb	-0.3669	0.146	-2.511	0.012	-0.653	-0.080
l1_ged_dummy_ns	0.1717	0.080	2.138	0.033	0.014	0.329
l1_ged_dummy_os	0.0106	0.129	0.082	0.934	-0.241	0.263
l1_acled_dummy_pr	0.1864	0.109	1.706	0.088	-0.028	0.401
decay_12_cw_ged_dummy_sb_0	0.9517	0.110	8.637	0.000	0.736	1.168
decay_12_cw_ged_dummy_ns_0	5.0805	0.095	53.276	0.000	4.894	5.267
decay_12_cw_ged_dummy_os_0	0.6958	0.106	6.534	0.000	0.487	0.905
decay_12_cw_acled_dummy_pr_0	0.9103	0.091	9.989	0.000	0.732	1.089
q_1_1_l1_ged_dummy_sb	-0.0668	0.058	-1.146	0.252	-0.181	0.047
q_1_1_l1_ged_dummy_ns	0.6587	0.050	13.272	0.000	0.561	0.756
q_1_1_l1_ged_dummy_os	0.0450	0.050	0.897	0.370	-0.053	0.143
q_1_1_l1_acled_dummy_pr	0.0933	0.038	2.453	0.014	0.019	0.168

4.8.7 os_eval

Dep. Variable:	ged_dummy_os	**No. Observations:**	2434356
Model:	Logit	**Df Residuals:**	2434330
Method:	MLE	**Df Model:**	25
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.3779
Time:	21:39:02	**Log-Likelihood:**	-22654.
converged:	True	**LL-Null:**	-36417.

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
Intercept	-7.3468	0.024	-301.298	0.000	-7.395	-7.299
l2_ged_dummy_os	-0.0260	0.050	-0.519	0.604	-0.124	0.072
l3_ged_dummy_os	0.0451	0.051	0.884	0.376	-0.055	0.145
l4_ged_dummy_os	0.0798	0.052	1.541	0.123	-0.022	0.181
l5_ged_dummy_os	0.0118	0.054	0.219	0.826	-0.093	0.117
l6_ged_dummy_os	0.1580	0.054	2.915	0.004	0.052	0.264
l7_ged_dummy_os	0.1725	0.055	3.118	0.002	0.064	0.281
l8_ged_dummy_os	0.1015	0.057	1.771	0.077	-0.011	0.214
l9_ged_dummy_os	0.1181	0.059	2.016	0.044	0.003	0.233
l10_ged_dummy_os	0.0696	0.060	1.156	0.248	-0.048	0.188
l11_ged_dummy_os	0.1666	0.060	2.755	0.006	0.048	0.285
l12_ged_dummy_os	0.3478	0.059	5.883	0.000	0.232	0.464
q_1_1_l2_ged_dummy_os	0.1271	0.025	5.170	0.000	0.079	0.175
q_1_1_l3_ged_dummy_os	0.0862	0.024	3.622	0.000	0.040	0.133
l1_ged_dummy_sb	0.0074	0.058	0.127	0.899	-0.107	0.121
l1_ged_dummy_ns	0.3880	0.132	2.949	0.003	0.130	0.646
l1_ged_dummy_os	0.2694	0.050	5.354	0.000	0.171	0.368
l1_acled_dummy_pr	0.1342	0.086	1.567	0.117	-0.034	0.302
decay_12_cw_ged_dummy_sb_0	1.6533	0.064	25.889	0.000	1.528	1.778
decay_12_cw_ged_dummy_ns_0	0.6992	0.084	8.321	0.000	0.534	0.864
decay_12_cw_ged_dummy_os_0	4.1351	0.069	59.766	0.000	3.999	4.271
decay_12_cw_acled_dummy_pr_0	0.8989	0.065	13.735	0.000	0.771	1.027
q_1_1_l1_ged_dummy_sb	0.0265	0.022	1.203	0.229	-0.017	0.070
q_1_1_l1_ged_dummy_ns	0.1203	0.061	1.981	0.048	0.001	0.239
q_1_1_l1_ged_dummy_os	0.4078	0.024	17.305	0.000	0.362	0.454
q_1_1_l1_acled_dummy_pr	0.0484	0.037	1.305	0.192	-0.024	0.121

4.8.8 pr_eval

Dep. Variable:	acled_dummy_pr	**No. Observations:**	2434356
Model:	Logit	**Df Residuals:**	2434330
Method:	MLE	**Df Model:**	25
Date:	Sun, 23 Jun 2019	**Pseudo R-squ.:**	0.4214
Time:	21:39:01	**Log-Likelihood:**	-51890.
converged:	True	**LL-Null:**	-89680.

	coef	std err	z	P>|z|	[0.025	0.975]
Intercept	-6.5070	0.016	-395.161	0.000	-6.539	-6.475
l2_acled_dummy_pr	0.1300	0.028	4.624	0.000	0.075	0.185
l3_acled_dummy_pr	0.2110	0.028	7.407	0.000	0.155	0.267
l4_acled_dummy_pr	0.2784	0.029	9.696	0.000	0.222	0.335
l5_acled_dummy_pr	0.3044	0.029	10.378	0.000	0.247	0.362
l6_acled_dummy_pr	0.2805	0.030	9.286	0.000	0.221	0.340
l7_acled_dummy_pr	0.3460	0.031	11.301	0.000	0.286	0.406
l8_acled_dummy_pr	0.4138	0.031	13.380	0.000	0.353	0.474
l9_acled_dummy_pr	0.3688	0.032	11.644	0.000	0.307	0.431
l10_acled_dummy_pr	0.3648	0.032	11.335	0.000	0.302	0.428
l11_acled_dummy_pr	0.4471	0.032	13.888	0.000	0.384	0.510
l12_acled_dummy_pr	0.5179	0.032	16.132	0.000	0.455	0.581
q_1_1_l2_acled_dummy_pr	0.0407	0.017	2.440	0.015	0.008	0.073
q_1_1_l3_acled_dummy_pr	0.0659	0.016	4.082	0.000	0.034	0.098
l1_ged_dummy_sb	-0.2538	0.084	-3.019	0.003	-0.419	-0.089
l1_ged_dummy_ns	0.0856	0.119	0.719	0.472	-0.148	0.319
l1_ged_dummy_os	-0.0730	0.089	-0.818	0.413	-0.248	0.102
l1_acled_dummy_pr	0.1783	0.028	6.370	0.000	0.123	0.233
decay_12_cw_ged_dummy_sb_0	0.5358	0.060	8.973	0.000	0.419	0.653
decay_12_cw_ged_dummy_ns_0	0.4022	0.067	5.995	0.000	0.271	0.534
decay_12_cw_ged_dummy_os_0	0.4222	0.060	7.015	0.000	0.304	0.540
decay_12_cw_acled_dummy_pr_0	4.4325	0.036	124.437	0.000	4.363	4.502
q_1_1_l1_ged_dummy_sb	-0.0360	0.035	-1.026	0.305	-0.105	0.033
q_1_1_l1_ged_dummy_ns	-0.1079	0.056	-1.936	0.053	-0.217	0.001
q_1_1_l1_ged_dummy_os	-0.0189	0.040	-0.476	0.634	-0.097	0.059
q_1_1_l1_acled_dummy_pr	0.2957	0.015	19.321	0.000	0.266	0.326

4.9 osa_pgm_canon_wcm_logit

4.9.1 sb_fcast

Dep. Variable:	ged_dummy_sb	**No. Observations:**	387258
Model:	Logit	**Df Residuals:**	387205
Method:	MLE	**Df Model:**	52
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.5058
Time:	07:29:27	**Log-Likelihood:**	-27620.
converged:	True	**LL-Null:**	-55885.

	coef	std err	z	P>|z|	[0.025	0.975]
l2_ged_dummy_sb	0.0325	0.053	0.612	0.541	-0.072	0.137
l3_ged_dummy_sb	0.0059	0.053	0.113	0.910	-0.097	0.109
l4_ged_dummy_sb	0.1079	0.053	2.030	0.042	0.004	0.212
l5_ged_dummy_sb	0.0403	0.055	0.738	0.460	-0.067	0.147
l6_ged_dummy_sb	0.1758	0.054	3.236	0.001	0.069	0.282
l7_ged_dummy_sb	0.1535	0.055	2.803	0.005	0.046	0.261
l8_ged_dummy_sb	0.1688	0.055	3.093	0.002	0.062	0.276
l9_ged_dummy_sb	0.2210	0.056	3.921	0.000	0.111	0.332
l10_ged_dummy_sb	0.2117	0.056	3.780	0.000	0.102	0.321
l11_ged_dummy_sb	0.3378	0.057	5.971	0.000	0.227	0.449
l12_ged_dummy_sb	0.2279	0.057	3.995	0.000	0.116	0.340
q_1_1_l2_ged_dummy_sb	0.3035	0.026	11.799	0.000	0.253	0.354
q_1_1_l3_ged_dummy_sb	0.1640	0.025	6.586	0.000	0.115	0.213
l1_ged_dummy_sb	0.0510	0.054	0.947	0.343	-0.054	0.156
l1_ged_dummy_ns	0.8592	0.189	4.555	0.000	0.490	1.229
l1_ged_dummy_os	0.0863	0.085	1.021	0.307	-0.079	0.252
decay_12_cw_ged_dummy_sb_0	3.7467	0.056	66.494	0.000	3.636	3.857
decay_12_cw_ged_dummy_ns_0	-0.8408	0.090	-9.295	0.000	-1.018	-0.664
decay_12_cw_ged_dummy_os_0	1.1945	0.062	19.321	0.000	1.073	1.316
q_1_1_l1_ged_dummy_sb	0.3747	0.025	14.891	0.000	0.325	0.424
q_1_1_l1_ged_dummy_ns	-0.0179	0.073	-0.243	0.808	-0.162	0.126
q_1_1_l1_ged_dummy_os	0.2490	0.031	7.929	0.000	0.187	0.311
ln_dist_diamsec	0.3271	0.022	15.075	0.000	0.285	0.370
ln_dist_petroleum	-0.0165	0.024	-0.697	0.486	-0.063	0.030
agri_ih_li	-0.0053	0.001	-4.191	0.000	-0.008	-0.003
barren_ih_li	-0.0035	0.001	-3.620	0.000	-0.005	-0.002
forest_ih_li	-0.0018	0.001	-1.755	0.079	-0.004	0.000
mountains_mean	-0.0410	0.048	-0.862	0.389	-0.134	0.052
savanna_ih_li	-0.0023	0.001	-2.285	0.022	-0.004	-0.000
shrub_ih_li	0.0110	0.001	9.190	0.000	0.009	0.013
pasture_ih_li	0.0023	0.001	2.734	0.006	0.001	0.004
urban_ih_li	0.0630	0.013	4.931	0.000	0.038	0.088
ln_bdist3	-0.1220	0.011	-11.455	0.000	-0.143	-0.101
ln_ttime	-0.1722	0.025	-6.796	0.000	-0.222	-0.123
ln_capdist	0.0553	0.019	2.894	0.004	0.018	0.093
ln_pop	0.2248	0.014	16.361	0.000	0.198	0.252
gcp_li_mer	0.0873	0.020	4.471	0.000	0.049	0.126
imr_mean	0.0008	5.01e-05	15.522	0.000	0.001	0.001
excluded_dummy_li	0.1655	0.029	5.799	0.000	0.110	0.221
fvp_lngdpcap_nonoilrent	-0.1027	0.028	-3.609	0.000	-0.158	-0.047
fvp_lngdpcap_oilrent	0.1122	0.007	16.860	0.000	0.099	0.125
fvp_grgdpcap_oilrent	-0.1435	0.033	-4.388	0.000	-0.208	-0.079
fvp_grgdpcap_nonoilrent	-0.6272	0.087	-7.236	0.000	-0.797	-0.457
ln_fvp_timeindep	0.2404	0.038	6.401	0.000	0.167	0.314
ln_fvp_timesincepreindepwar	-0.1177	0.032	-3.668	0.000	-0.181	-0.055
ln_fvp_timesinceregimechange	-0.1362	0.014	-9.855	0.000	-0.163	-0.109
fvp_demo	-0.5830	0.049	-11.862	0.000	-0.679	-0.487
fvp_semi	-0.4347	0.036	-12.186	0.000	-0.505	-0.365
fvp_prop_excluded	-0.0339	0.053	-0.635	0.526	-0.139	0.071
ln_fvp_population200	0.0451	0.018	2.470	0.013	0.009	0.081
ssp2_edu_sec_15_24_prop	-0.0769	0.111	-0.690	0.490	-0.295	0.141
ssp2_urban_share_iiasa	-0.0014	0.001	-1.068	0.286	-0.004	0.001
Intercept	-6.8466	0.378	-18.112	0.000	-7.588	-6.106

4.9.2 ns_fcast

Dep. Variable:	ged_dummy_ns	**No. Observations:**	379781
Model:	Logit	**Df Residuals:**	379728
Method:	MLE	**Df Model:**	52
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.4256
Time:	07:21:14	**Log-Likelihood:**	-13755.
converged:	True	**LL-Null:**	-23945.

	coef	std err	z	P>|z|	[0.025	0.975]
l2_ged_dummy_ns	0.3159	0.097	3.259	0.001	0.126	0.506
l3_ged_dummy_ns	0.0676	0.099	0.684	0.494	-0.126	0.261
l4_ged_dummy_ns	0.4211	0.098	4.304	0.000	0.229	0.613
l5_ged_dummy_ns	0.0927	0.100	0.924	0.356	-0.104	0.289
l6_ged_dummy_ns	0.2215	0.102	2.169	0.030	0.021	0.422
l7_ged_dummy_ns	0.1752	0.106	1.646	0.100	-0.033	0.384
l8_ged_dummy_ns	0.3408	0.105	3.242	0.001	0.135	0.547
l9_ged_dummy_ns	0.4371	0.108	4.063	0.000	0.226	0.648
l10_ged_dummy_ns	0.2741	0.109	2.523	0.012	0.061	0.487
l11_ged_dummy_ns	0.3220	0.112	2.873	0.004	0.102	0.542
l12_ged_dummy_ns	0.1999	0.115	1.736	0.082	-0.026	0.425
q_1_1_l2_ged_dummy_ns	0.4663	0.055	8.529	0.000	0.359	0.573
q_1_1_l3_ged_dummy_ns	0.2299	0.056	4.132	0.000	0.121	0.339
l1_ged_dummy_sb	0.1932	0.148	1.307	0.191	-0.096	0.483
l1_ged_dummy_ns	0.3654	0.095	3.842	0.000	0.179	0.552
l1_ged_dummy_os	0.5361	0.133	4.026	0.000	0.275	0.797
decay_12_cw_ged_dummy_sb_0	0.3329	0.110	3.033	0.002	0.118	0.548
decay_12_cw_ged_dummy_ns_0	3.6807	0.091	40.291	0.000	3.502	3.860
decay_12_cw_ged_dummy_os_0	0.8851	0.103	8.560	0.000	0.682	1.088
q_1_1_l1_ged_dummy_sb	-0.2024	0.052	-3.878	0.000	-0.305	-0.100
q_1_1_l1_ged_dummy_ns	0.6508	0.051	12.770	0.000	0.551	0.751
q_1_1_l1_ged_dummy_os	0.1753	0.049	3.574	0.000	0.079	0.271
ln_dist_diamsec	0.3779	0.034	11.103	0.000	0.311	0.445
ln_dist_petroleum	0.7627	0.047	16.157	0.000	0.670	0.855
agri_ih_li	0.0088	0.002	4.769	0.000	0.005	0.012
barren_ih_li	-0.0020	0.002	-1.205	0.228	-0.005	0.001
forest_ih_li	-0.0026	0.002	-1.520	0.128	-0.006	0.001
mountains_mean	-0.2002	0.075	-2.687	0.007	-0.346	-0.054
savanna_ih_li	0.0047	0.002	2.953	0.003	0.002	0.008
shrub_ih_li	0.0185	0.002	9.715	0.000	0.015	0.022
pasture_ih_li	0.0081	0.001	5.600	0.000	0.005	0.011
urban_ih_li	0.0609	0.017	3.585	0.000	0.028	0.094
ln_bdist3	-0.1055	0.016	-6.416	0.000	-0.138	-0.073
ln_ttime	0.0535	0.040	1.334	0.182	-0.025	0.132
ln_capdist	0.1402	0.029	4.838	0.000	0.083	0.197
ln_pop	0.3115	0.022	14.425	0.000	0.269	0.354
gcp_li_mer	0.0212	0.029	0.742	0.458	-0.035	0.077
imr_mean	0.0002	7.94e-05	2.192	0.028	1.84e-05	0.000
excluded_dummy_li	0.2800	0.043	6.519	0.000	0.196	0.364
fvp_lngdpcap_nonoilrent	-0.1307	0.043	-3.046	0.002	-0.215	-0.047
fvp_lngdpcap_oilrent	0.1160	0.010	12.174	0.000	0.097	0.135
fvp_grgdpcap_oilrent	-0.3042	0.050	-6.113	0.000	-0.402	-0.207
fvp_grgdpcap_nonoilrent	-0.7010	0.120	-5.857	0.000	-0.936	-0.466
ln_fvp_timeindep	0.2988	0.055	5.408	0.000	0.191	0.407
ln_fvp_timesincepreindepwar	0.2304	0.054	4.280	0.000	0.125	0.336
ln_fvp_timesinceregimechange	-0.1469	0.019	-7.631	0.000	-0.185	-0.109
fvp_demo	-0.5369	0.073	-7.372	0.000	-0.680	-0.394
fvp_semi	-0.2574	0.057	-4.490	0.000	-0.370	-0.145
fvp_prop_excluded	-0.8735	0.086	-10.210	0.000	-1.041	-0.706
ln_fvp_population200	-0.0629	0.027	-2.353	0.019	-0.115	-0.010
ssp2_edu_sec_15_24_prop	1.8693	0.156	11.957	0.000	1.563	2.176
ssp2_urban_share_iiasa	-0.0018	0.002	-0.888	0.374	-0.006	0.002
Intercept	-13.2517	0.589	-22.516	0.000	-14.405	-12.098

4.9.3 os_fcast

Dep. Variable:	ged_dummy_os	**No. Observations:**	383402
Model:	Logit	**Df Residuals:**	383349
Method:	MLE	**Df Model:**	52
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.4714
Time:	07:26:57	**Log-Likelihood:**	-21382.
converged:	True	**LL-Null:**	-40452.

	coef	std err	z	P>|z|	[0.025	0.975]
l2_ged_dummy_os	0.2273	0.069	3.300	0.001	0.092	0.362
l3_ged_dummy_os	0.0359	0.068	0.525	0.599	-0.098	0.170
l4_ged_dummy_os	0.1408	0.069	2.037	0.042	0.005	0.276
l5_ged_dummy_os	0.2413	0.070	3.436	0.001	0.104	0.379
l6_ged_dummy_os	0.1580	0.072	2.198	0.028	0.017	0.299
l7_ged_dummy_os	0.1455	0.074	1.973	0.048	0.001	0.290
l8_ged_dummy_os	0.1427	0.074	1.924	0.054	-0.003	0.288
l9_ged_dummy_os	0.1805	0.076	2.384	0.017	0.032	0.329
l10_ged_dummy_os	0.2596	0.076	3.422	0.001	0.111	0.408
l11_ged_dummy_os	0.2484	0.075	3.307	0.001	0.101	0.396
l12_ged_dummy_os	0.0097	0.079	0.124	0.901	-0.144	0.164
q_1_1_l2_ged_dummy_os	0.1887	0.031	6.031	0.000	0.127	0.250
q_1_1_l3_ged_dummy_os	0.1446	0.031	4.676	0.000	0.084	0.205
l1_ged_dummy_sb	0.3202	0.078	4.117	0.000	0.168	0.473
l1_ged_dummy_ns	0.7825	0.149	5.255	0.000	0.491	1.074
l1_ged_dummy_os	0.1828	0.070	2.600	0.009	0.045	0.321
decay_12_cw_ged_dummy_sb_0	1.5163	0.065	23.262	0.000	1.389	1.644
decay_12_cw_ged_dummy_ns_0	0.1236	0.086	1.441	0.149	-0.044	0.292
decay_12_cw_ged_dummy_os_0	2.9504	0.073	40.426	0.000	2.807	3.093
q_1_1_l1_ged_dummy_sb	0.1690	0.028	5.963	0.000	0.113	0.225
q_1_1_l1_ged_dummy_ns	0.3194	0.050	6.338	0.000	0.221	0.418
q_1_1_l1_ged_dummy_os	0.4544	0.031	14.887	0.000	0.395	0.514
ln_dist_diamsec	-0.1443	0.023	-6.303	0.000	-0.189	-0.099
ln_dist_petroleum	0.4381	0.032	13.799	0.000	0.376	0.500
agri_ih_li	0.0039	0.001	2.851	0.004	0.001	0.007
barren_ih_li	-0.0045	0.001	-3.464	0.001	-0.007	-0.002
forest_ih_li	0.0001	0.001	0.132	0.895	-0.002	0.002
mountains_mean	-0.1731	0.056	-3.071	0.002	-0.284	-0.063
savanna_ih_li	0.0078	0.001	7.718	0.000	0.006	0.010
shrub_ih_li	0.0022	0.002	1.222	0.222	-0.001	0.006
pasture_ih_li	0.0007	0.001	0.699	0.485	-0.001	0.003
urban_ih_li	0.0899	0.013	7.150	0.000	0.065	0.115
ln_bdist3	-0.1152	0.012	-9.258	0.000	-0.140	-0.091
ln_ttime	-0.2265	0.032	-7.179	0.000	-0.288	-0.165
ln_capdist	0.1287	0.021	6.158	0.000	0.088	0.170
ln_pop	0.2879	0.017	16.678	0.000	0.254	0.322
gcp_li_mer	0.1053	0.020	5.175	0.000	0.065	0.145
imr_mean	0.0004	5.92e-05	6.302	0.000	0.000	0.000
excluded_dummy_li	0.3148	0.033	9.473	0.000	0.250	0.380
fvp_lngdpcap_nonoilrent	-0.3277	0.031	-10.477	0.000	-0.389	-0.266
fvp_lngdpcap_oilrent	0.0847	0.008	11.204	0.000	0.070	0.099
fvp_grgdpcap_oilrent	-0.1850	0.040	-4.640	0.000	-0.263	-0.107
fvp_grgdpcap_nonoilrent	-0.4356	0.090	-4.838	0.000	-0.612	-0.259
ln_fvp_timeindep	0.4080	0.040	10.258	0.000	0.330	0.486
ln_fvp_timesincepreindepwar	-0.0500	0.037	-1.363	0.173	-0.122	0.022
ln_fvp_timesinceregimechange	-0.0924	0.015	-6.012	0.000	-0.122	-0.062
fvp_demo	-0.6947	0.057	-12.203	0.000	-0.806	-0.583
fvp_semi	-0.2978	0.042	-7.152	0.000	-0.379	-0.216
fvp_prop_excluded	0.1081	0.057	1.886	0.059	-0.004	0.220
ln_fvp_population200	-0.0614	0.021	-2.945	0.003	-0.102	-0.021
ssp2_edu_sec_15_24_prop	0.9568	0.122	7.859	0.000	0.718	1.195
ssp2_urban_share_iiasa	-0.0008	0.001	-0.568	0.570	-0.004	0.002
Intercept	-6.5425	0.434	-15.084	0.000	-7.393	-5.692

4.9.4 sb_eval

Dep. Variable:	ged_dummy_sb	**No. Observations:**	341244
Model:	Logit	**Df Residuals:**	341191
Method:	MLE	**Df Model:**	52
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.4959
Time:	07:06:09	**Log-Likelihood:**	-23133.
converged:	True	**LL-Null:**	-45888.

	coef	std err	z	P>|z|	[0.025	0.975]
l2_ged_dummy_sb	-0.0170	0.059	-0.290	0.772	-0.132	0.098
l3_ged_dummy_sb	0.1537	0.059	2.613	0.009	0.038	0.269
l4_ged_dummy_sb	0.1081	0.059	1.841	0.066	-0.007	0.223
l5_ged_dummy_sb	-0.1243	0.060	-2.065	0.039	-0.242	-0.006
l6_ged_dummy_sb	0.1724	0.061	2.849	0.004	0.054	0.291
l7_ged_dummy_sb	0.2337	0.062	3.781	0.000	0.113	0.355
l8_ged_dummy_sb	0.3624	0.062	5.871	0.000	0.241	0.483
l9_ged_dummy_sb	0.2475	0.063	3.940	0.000	0.124	0.371
l10_ged_dummy_sb	0.2773	0.064	4.345	0.000	0.152	0.402
l11_ged_dummy_sb	0.3301	0.064	5.168	0.000	0.205	0.455
l12_ged_dummy_sb	0.3170	0.065	4.865	0.000	0.189	0.445
q_1_1_l2_ged_dummy_sb	0.2692	0.029	9.369	0.000	0.213	0.326
q_1_1_l3_ged_dummy_sb	0.1729	0.028	6.253	0.000	0.119	0.227
l1_ged_dummy_sb	0.0305	0.060	0.509	0.611	-0.087	0.148
l1_ged_dummy_ns	1.1589	0.220	5.263	0.000	0.727	1.590
l1_ged_dummy_os	0.1453	0.094	1.542	0.123	-0.039	0.330
decay_12_cw_ged_dummy_sb_0	3.6355	0.064	57.179	0.000	3.511	3.760
decay_12_cw_ged_dummy_ns_0	-0.9162	0.101	-9.038	0.000	-1.115	-0.717
decay_12_cw_ged_dummy_os_0	1.1911	0.070	17.112	0.000	1.055	1.327
q_1_1_l1_ged_dummy_sb	0.3485	0.029	12.219	0.000	0.293	0.404
q_1_1_l1_ged_dummy_ns	-0.0370	0.090	-0.411	0.681	-0.214	0.140
q_1_1_l1_ged_dummy_os	0.2589	0.034	7.525	0.000	0.191	0.326
ln_dist_diamsec	0.2819	0.024	11.759	0.000	0.235	0.329
ln_dist_petroleum	0.0273	0.026	1.034	0.301	-0.024	0.079
agri_ih_li	-0.0052	0.001	-3.741	0.000	-0.008	-0.002
barren_ih_li	-0.0050	0.001	-4.620	0.000	-0.007	-0.003
forest_ih_li	-0.0030	0.001	-2.635	0.008	-0.005	-0.001
mountains_mean	-0.0432	0.052	-0.838	0.402	-0.144	0.058
savanna_ih_li	-0.0041	0.001	-3.665	0.000	-0.006	-0.002
shrub_ih_li	0.0103	0.001	7.852	0.000	0.008	0.013
pasture_ih_li	0.0013	0.001	1.405	0.160	-0.001	0.003
urban_ih_li	0.1049	0.014	7.364	0.000	0.077	0.133
ln_bdist3	-0.1234	0.012	-10.444	0.000	-0.147	-0.100
ln_ttime	-0.1808	0.028	-6.440	0.000	-0.236	-0.126
ln_capdist	0.0377	0.021	1.758	0.079	-0.004	0.080
ln_pop	0.2245	0.015	14.524	0.000	0.194	0.255
gcp_li_mer	0.0800	0.022	3.688	0.000	0.037	0.123
imr_mean	0.0008	5.6e-05	13.712	0.000	0.001	0.001
excluded_dummy_li	0.1713	0.032	5.379	0.000	0.109	0.234
fvp_lngdpcap_nonoilrent	-0.0902	0.033	-2.705	0.007	-0.156	-0.025
fvp_lngdpcap_oilrent	0.1319	0.007	17.659	0.000	0.117	0.147
fvp_grgdpcap_oilrent	-0.1203	0.034	-3.503	0.000	-0.188	-0.053
fvp_grgdpcap_nonoilrent	-0.7381	0.098	-7.517	0.000	-0.931	-0.546
ln_fvp_timeindep	0.3303	0.041	8.108	0.000	0.250	0.410
ln_fvp_timesincepreindepwar	-0.1920	0.036	-5.399	0.000	-0.262	-0.122
ln_fvp_timesinceregimechange	-0.1375	0.017	-7.979	0.000	-0.171	-0.104
fvp_demo	-0.8116	0.057	-14.219	0.000	-0.924	-0.700
fvp_semi	-0.4920	0.039	-12.750	0.000	-0.568	-0.416
fvp_prop_excluded	-0.0651	0.056	-1.156	0.248	-0.176	0.045
ln_fvp_population200	0.0775	0.023	3.413	0.001	0.033	0.122
ssp2_edu_sec_15_24_prop	-0.2351	0.134	-1.758	0.079	-0.497	0.027
ssp2_urban_share_iiasa	-0.0022	0.001	-1.584	0.113	-0.005	0.001
Intercept	-6.9692	0.429	-16.242	0.000	-7.810	-6.128

4.9.5 ns_eval

Dep. Variable:	ged_dummy_ns	**No. Observations:**	335019
Model:	Logit	**Df Residuals:**	334966
Method:	MLE	**Df Model:**	52
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.4349
Time:	07:04:42	**Log-Likelihood:**	-10455.
converged:	True	**LL-Null:**	-18503.

	coef	std err	z	P>|z|	[0.025	0.975]
l2_ged_dummy_ns	0.2634	0.109	2.413	0.016	0.049	0.477
l3_ged_dummy_ns	0.0938	0.111	0.841	0.400	-0.125	0.312
l4_ged_dummy_ns	0.2967	0.111	2.677	0.007	0.079	0.514
l5_ged_dummy_ns	0.1634	0.117	1.397	0.162	-0.066	0.393
l6_ged_dummy_ns	-0.0303	0.116	-0.261	0.794	-0.258	0.197
l7_ged_dummy_ns	0.1190	0.122	0.975	0.330	-0.120	0.358
l8_ged_dummy_ns	0.3604	0.119	3.029	0.002	0.127	0.594
l9_ged_dummy_ns	0.2798	0.122	2.296	0.022	0.041	0.519
l10_ged_dummy_ns	0.2849	0.130	2.183	0.029	0.029	0.541
l11_ged_dummy_ns	0.2288	0.132	1.736	0.083	-0.030	0.487
l12_ged_dummy_ns	0.2912	0.131	2.216	0.027	0.034	0.549
q_1_1_l2_ged_dummy_ns	0.4635	0.063	7.317	0.000	0.339	0.588
q_1_1_l3_ged_dummy_ns	0.2247	0.064	3.527	0.000	0.100	0.350
l1_ged_dummy_sb	0.2527	0.178	1.416	0.157	-0.097	0.602
l1_ged_dummy_ns	0.4956	0.109	4.534	0.000	0.281	0.710
l1_ged_dummy_os	0.6720	0.159	4.237	0.000	0.361	0.983
decay_12_cw_ged_dummy_sb_0	0.1296	0.130	0.998	0.319	-0.125	0.384
decay_12_cw_ged_dummy_ns_0	3.5938	0.104	34.533	0.000	3.390	3.798
decay_12_cw_ged_dummy_os_0	0.9201	0.121	7.600	0.000	0.683	1.157
q_1_1_l1_ged_dummy_sb	-0.1971	0.068	-2.899	0.004	-0.330	-0.064
q_1_1_l1_ged_dummy_ns	0.6189	0.061	10.140	0.000	0.499	0.739
q_1_1_l1_ged_dummy_os	0.2040	0.058	3.510	0.000	0.090	0.318
ln_dist_diamsec	0.3483	0.040	8.713	0.000	0.270	0.427
ln_dist_petroleum	0.9316	0.058	15.942	0.000	0.817	1.046
agri_ih_li	0.0111	0.002	5.030	0.000	0.007	0.015
barren_ih_li	0.0022	0.002	1.079	0.281	-0.002	0.006
forest_ih_li	0.0021	0.002	1.060	0.289	-0.002	0.006
mountains_mean	-0.1924	0.084	-2.286	0.022	-0.357	-0.027
savanna_ih_li	0.0073	0.002	3.715	0.000	0.003	0.011
shrub_ih_li	0.0241	0.002	10.741	0.000	0.020	0.029
pasture_ih_li	0.0135	0.002	7.654	0.000	0.010	0.017
urban_ih_li	0.0350	0.020	1.777	0.076	-0.004	0.074
ln_bdist3	-0.1538	0.019	-8.120	0.000	-0.191	-0.117
ln_ttime	0.1071	0.047	2.298	0.022	0.016	0.198
ln_capdist	0.0336	0.034	0.995	0.320	-0.033	0.100
ln_pop	0.3612	0.026	14.056	0.000	0.311	0.412
gcp_li_mer	0.0655	0.032	2.048	0.041	0.003	0.128
imr_mean	0.0002	9.6e-05	2.378	0.017	4.01e-05	0.000
excluded_dummy_li	0.4444	0.050	8.816	0.000	0.346	0.543
fvp_lngdpcap_nonoilrent	0.0879	0.055	1.606	0.108	-0.019	0.195
fvp_lngdpcap_oilrent	0.0855	0.012	7.420	0.000	0.063	0.108
fvp_grgdpcap_oilrent	-0.2851	0.056	-5.065	0.000	-0.395	-0.175
fvp_grgdpcap_nonoilrent	-1.4882	0.163	-9.157	0.000	-1.807	-1.170
ln_fvp_timeindep	0.2436	0.062	3.899	0.000	0.121	0.366
ln_fvp_timesincepreindepwar	0.1844	0.064	2.902	0.004	0.060	0.309
ln_fvp_timesinceregimechange	-0.0977	0.025	-3.845	0.000	-0.148	-0.048
fvp_demo	-0.5006	0.087	-5.748	0.000	-0.671	-0.330
fvp_semi	-0.1945	0.066	-2.943	0.003	-0.324	-0.065
fvp_prop_excluded	-0.8525	0.093	-9.149	0.000	-1.035	-0.670
ln_fvp_population200	0.1498	0.037	4.076	0.000	0.078	0.222
ssp2_edu_sec_15_24_prop	1.3611	0.198	6.858	0.000	0.972	1.750
ssp2_urban_share_iiasa	-0.0031	0.002	-1.410	0.159	-0.008	0.001
Intercept	-17.5575	0.734	-23.929	0.000	-18.996	-16.119

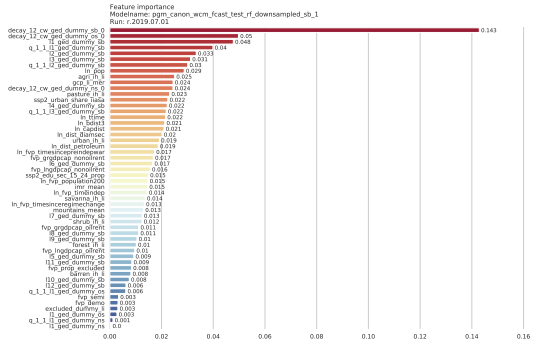
4.9.6 os_eval

Dep. Variable:	ged_dummy_os	**No. Observations:**	338124
Model:	Logit	**Df Residuals:**	338071
Method:	MLE	**Df Model:**	52
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.4681
Time:	07:04:49	**Log-Likelihood:**	-17594.
converged:	True	**LL-Null:**	-33077.

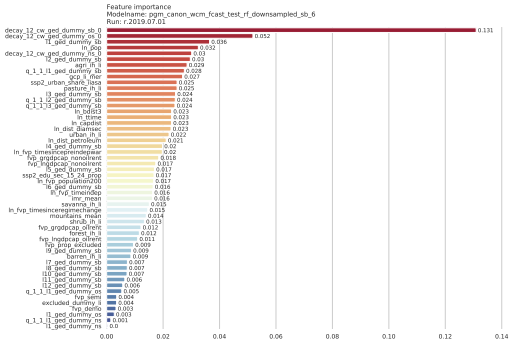
	coef	std err	z	P>|z|	[0.025	0.975]
l2_ged_dummy_os	0.1354	0.077	1.768	0.077	-0.015	0.285
l3_ged_dummy_os	0.0296	0.077	0.387	0.699	-0.120	0.180
l4_ged_dummy_os	0.1720	0.077	2.221	0.026	0.020	0.324
l5_ged_dummy_os	0.1375	0.077	1.792	0.073	-0.013	0.288
l6_ged_dummy_os	0.3603	0.081	4.453	0.000	0.202	0.519
l7_ged_dummy_os	0.0429	0.081	0.529	0.597	-0.116	0.202
l8_ged_dummy_os	0.2038	0.082	2.484	0.013	0.043	0.365
l9_ged_dummy_os	0.1585	0.085	1.875	0.061	-0.007	0.324
l10_ged_dummy_os	0.1583	0.086	1.847	0.065	-0.010	0.326
l11_ged_dummy_os	0.4038	0.084	4.826	0.000	0.240	0.568
l12_ged_dummy_os	0.1144	0.088	1.304	0.192	-0.058	0.286
q_1_1_l2_ged_dummy_os	0.2630	0.036	7.317	0.000	0.193	0.334
q_1_1_l3_ged_dummy_os	0.1756	0.034	5.090	0.000	0.108	0.243
l1_ged_dummy_sb	0.1779	0.087	2.040	0.041	0.007	0.349
l1_ged_dummy_ns	1.0827	0.171	6.325	0.000	0.747	1.418
l1_ged_dummy_os	0.2298	0.078	2.942	0.003	0.077	0.383
decay_12_cw_ged_dummy_sb_0	1.5547	0.073	21.323	0.000	1.412	1.698
decay_12_cw_ged_dummy_ns_0	0.0122	0.097	0.125	0.900	-0.178	0.203
decay_12_cw_ged_dummy_os_0	2.8926	0.082	35.422	0.000	2.733	3.053
q_1_1_l1_ged_dummy_sb	0.2027	0.033	6.141	0.000	0.138	0.267
q_1_1_l1_ged_dummy_ns	0.2821	0.059	4.802	0.000	0.167	0.397
q_1_1_l1_ged_dummy_os	0.3972	0.034	11.542	0.000	0.330	0.465
ln_dist_diamsec	-0.2108	0.025	-8.303	0.000	-0.261	-0.161
ln_dist_petroleum	0.4474	0.036	12.512	0.000	0.377	0.518
agri_ih_li	0.0051	0.002	3.318	0.001	0.002	0.008
barren_ih_li	-0.0037	0.001	-2.520	0.012	-0.007	-0.001
forest_ih_li	0.0013	0.001	1.077	0.281	-0.001	0.004
mountains_mean	-0.1549	0.062	-2.491	0.013	-0.277	-0.033
savanna_ih_li	0.0079	0.001	6.966	0.000	0.006	0.010
shrub_ih_li	0.0032	0.002	1.553	0.121	-0.001	0.007
pasture_ih_li	0.0018	0.001	1.572	0.116	-0.000	0.004
urban_ih_li	0.0971	0.014	6.699	0.000	0.069	0.125
ln_bdist3	-0.1176	0.014	-8.460	0.000	-0.145	-0.090
ln_ttime	-0.2625	0.035	-7.491	0.000	-0.331	-0.194
ln_capdist	0.1354	0.024	5.705	0.000	0.089	0.182
ln_pop	0.2899	0.019	15.004	0.000	0.252	0.328
gcp_li_mer	0.1130	0.023	4.908	0.000	0.068	0.158
imr_mean	0.0003	6.67e-05	4.270	0.000	0.000	0.000
excluded_dummy_li	0.3131	0.037	8.397	0.000	0.240	0.386
fvp_lngdpcap_nonoilrent	-0.3618	0.037	-9.723	0.000	-0.435	-0.289
fvp_lngdpcap_oilrent	0.1016	0.008	12.205	0.000	0.085	0.118
fvp_grgdpcap_oilrent	-0.1883	0.043	-4.384	0.000	-0.272	-0.104
fvp_grgdpcap_nonoilrent	-0.7414	0.113	-6.553	0.000	-0.963	-0.520
ln_fvp_timeindep	0.3794	0.044	8.655	0.000	0.293	0.465
ln_fvp_timesincepreindepwar	-0.0212	0.042	-0.507	0.612	-0.103	0.061
ln_fvp_timesinceregimechange	-0.0771	0.019	-3.987	0.000	-0.115	-0.039
fvp_demo	-0.8111	0.065	-12.421	0.000	-0.939	-0.683
fvp_semi	-0.3519	0.046	-7.725	0.000	-0.441	-0.263
fvp_prop_excluded	0.1057	0.061	1.726	0.084	-0.014	0.226
ln_fvp_population200	-0.0625	0.026	-2.425	0.015	-0.113	-0.012
ssp2_edu_sec_15_24_prop	1.1168	0.147	7.575	0.000	0.828	1.406
ssp2_urban_share_iiasa	0.0004	0.002	0.278	0.781	-0.003	0.004
Intercept	-6.2335	0.499	-12.493	0.000	-7.211	-5.256

4.10 osa_pgm_canon_wcm_rf

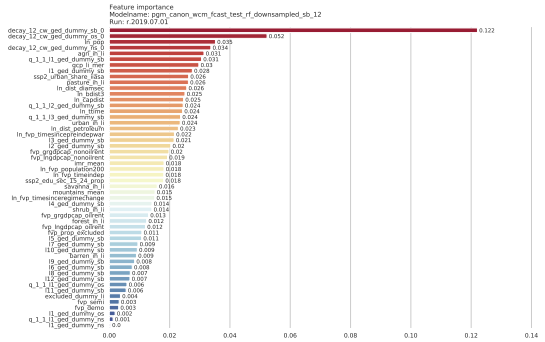
4.10.1 sb_fcast



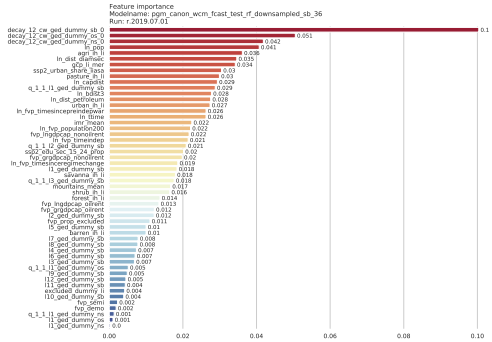
(a) 1 month



(b) 6 months

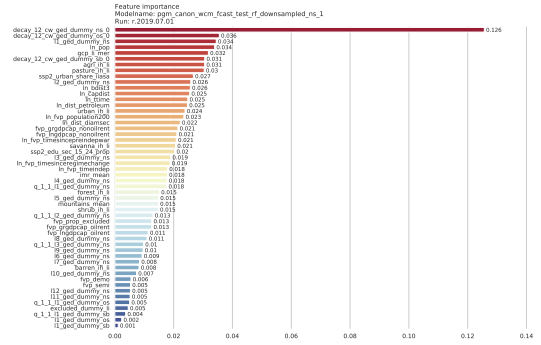


(c) 12 months

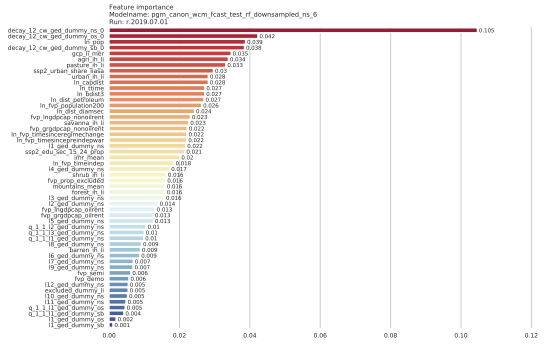


(d) 36 months

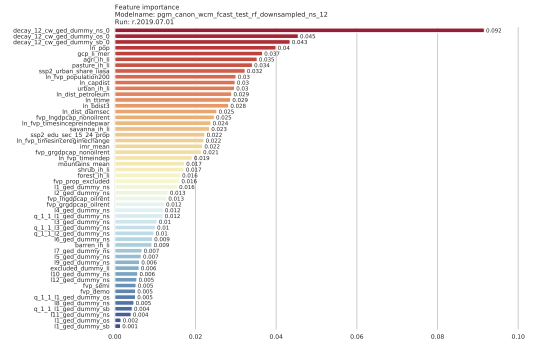
4.10.2 ns_fcast



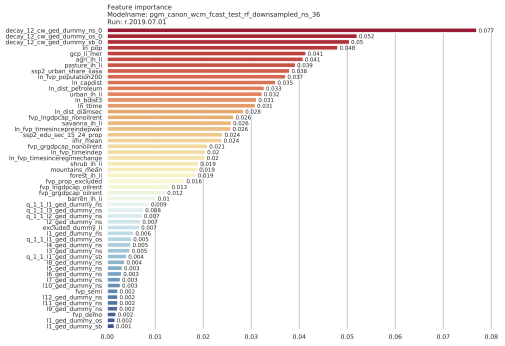
(a) 1 month



(b) 6 months

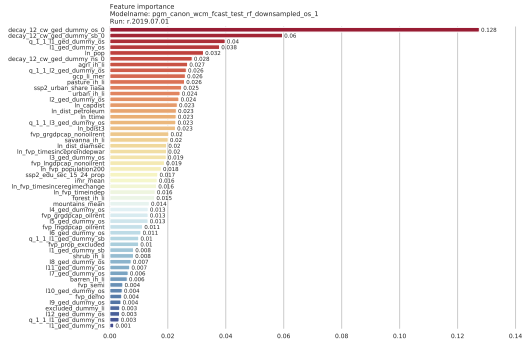


(c) 12 months

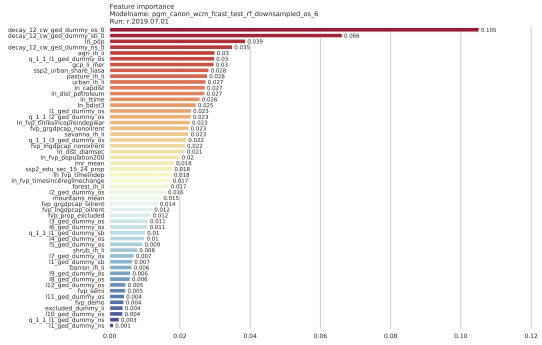


(d) 36 months

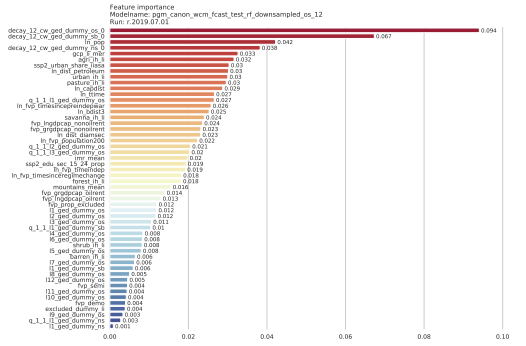
4.10.3 os_fcast



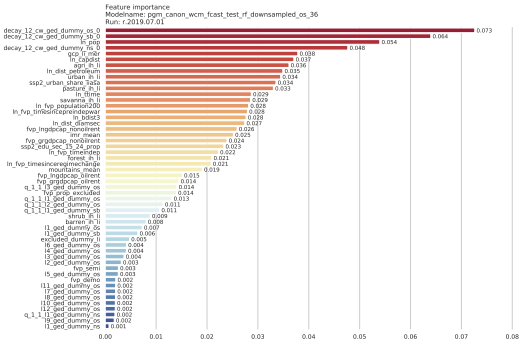
(a) 1 month



(b) 6 months

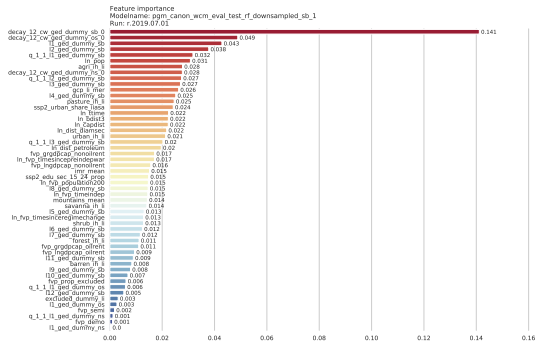


(c) 12 months

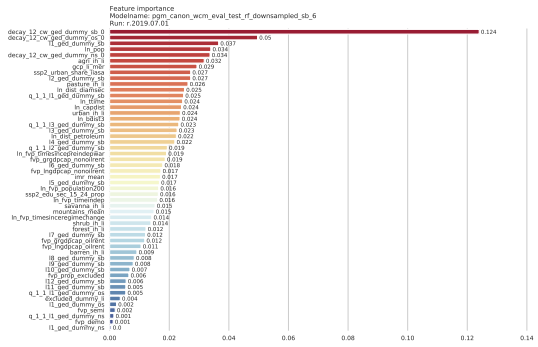


(d) 36 months

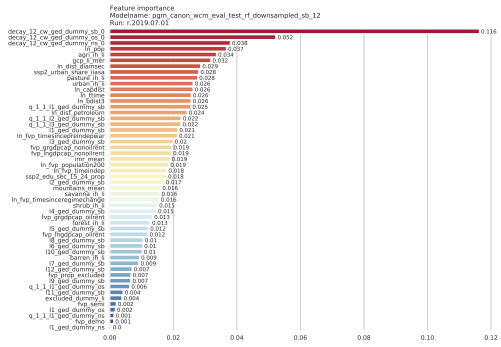
4.10.4 sb_eval



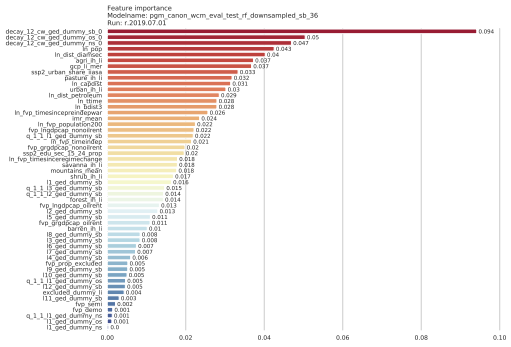
(a) 1 month



(b) 6 months

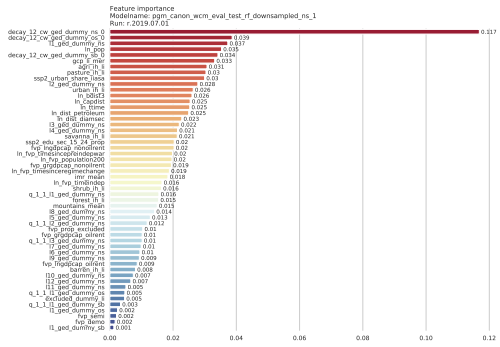


(c) 12 months

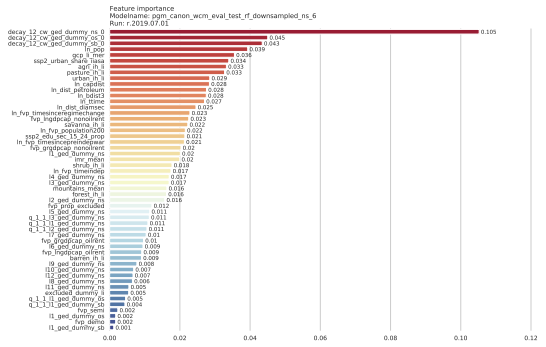


(d) 36 months

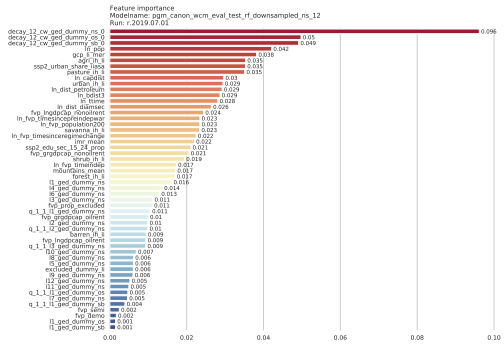
4.10.5 ns_eval



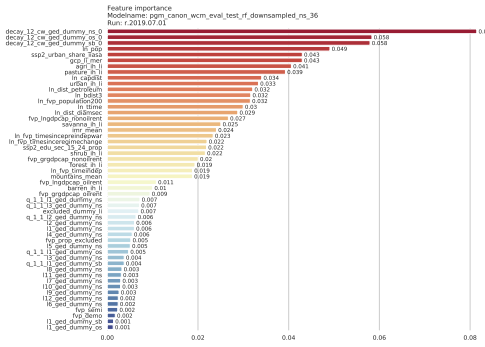
(a) 1 month



(b) 6 months

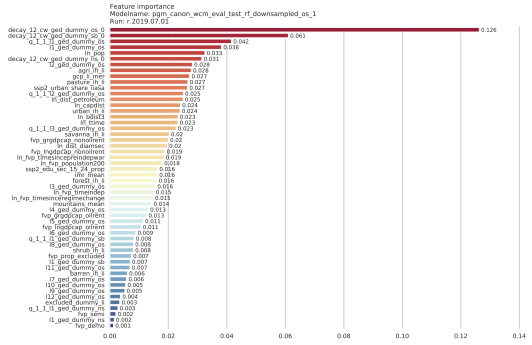


(c) 12 months

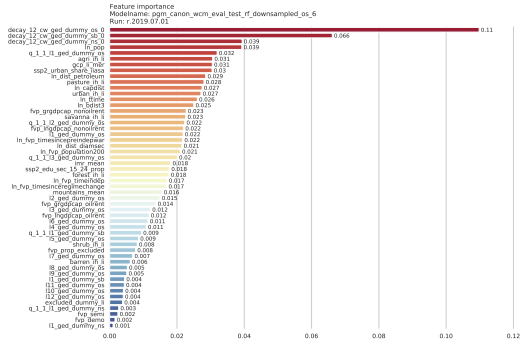


(d) 36 months

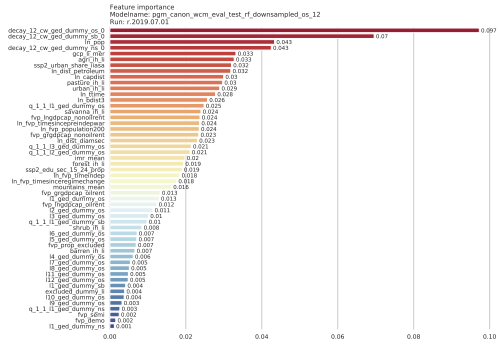
4.10.6 os_eval



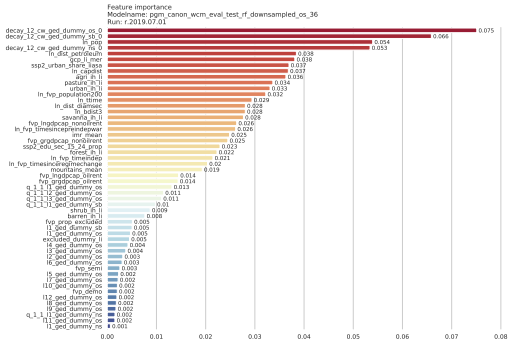
(a) 1 month



(b) 6 months



(c) 12 months



(d) 36 months

4.11 osa_pgm_canon_nocm_logit

4.11.1 sb_fcast

Dep. Variable:	ged_dummy_sb	**No. Observations:**	387258
Model:	Logit	**Df Residuals:**	387218
Method:	MLE	**Df Model:**	39
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.4981
Time:	06:57:06	**Log-Likelihood:**	-28048.
converged:	True	**LL-Null:**	-55885.

	coef	std err	z	P>|z|	[0.025	0.975]
l2_ged_dummy_sb	-0.0399	0.053	-0.753	0.451	-0.144	0.064
l3_ged_dummy_sb	0.0796	0.053	1.492	0.136	-0.025	0.184
l4_ged_dummy_sb	0.1258	0.053	2.360	0.018	0.021	0.230
l5_ged_dummy_sb	-0.0270	0.055	-0.493	0.622	-0.134	0.080
l6_ged_dummy_sb	0.0813	0.054	1.514	0.130	-0.024	0.186
l7_ged_dummy_sb	0.2023	0.055	3.671	0.000	0.094	0.310
l8_ged_dummy_sb	0.2721	0.055	4.929	0.000	0.164	0.380
l9_ged_dummy_sb	0.2123	0.056	3.779	0.000	0.102	0.322
l10_ged_dummy_sb	0.2183	0.057	3.846	0.000	0.107	0.329
l11_ged_dummy_sb	0.3538	0.057	6.170	0.000	0.241	0.466
l12_ged_dummy_sb	0.3138	0.058	5.406	0.000	0.200	0.428
q_1_1_l2_ged_dummy_sb	0.2809	0.026	10.925	0.000	0.231	0.331
q_1_1_l3_ged_dummy_sb	0.1978	0.025	7.867	0.000	0.149	0.247
l1_ged_dummy_sb	-0.0623	0.053	-1.169	0.242	-0.167	0.042
l1_ged_dummy_ns	0.8733	0.185	4.722	0.000	0.511	1.236
l1_ged_dummy_os	0.2150	0.087	2.469	0.014	0.044	0.386
decay_12_cw_ged_dummy_sb_0	3.9614	0.056	70.892	0.000	3.852	4.071
decay_12_cw_ged_dummy_ns_0	-0.9048	0.089	-10.117	0.000	-1.080	-0.730
decay_12_cw_ged_dummy_os_0	1.1728	0.062	18.916	0.000	1.051	1.294
q_1_1_l1_ged_dummy_sb	0.3885	0.025	15.357	0.000	0.339	0.438
q_1_1_l1_ged_dummy_ns	-0.0370	0.074	-0.501	0.616	-0.181	0.107
q_1_1_l1_ged_dummy_os	0.2083	0.031	6.618	0.000	0.147	0.270
ln_dist_diamsec	0.2468	0.019	12.808	0.000	0.209	0.285
ln_dist_petroleum	-0.2370	0.019	-12.778	0.000	-0.273	-0.201
agri_ih_li	-0.0024	0.001	-2.063	0.039	-0.005	-0.000
barren_ih_li	-0.0044	0.001	-4.623	0.000	-0.006	-0.003
forest_ih_li	-0.0030	0.001	-3.058	0.002	-0.005	-0.001
mountains_mean	-0.0051	0.045	-0.113	0.910	-0.093	0.083
savanna_ih_li	-0.0063	0.001	-6.515	0.000	-0.008	-0.004
shrub_ih_li	0.0081	0.001	7.152	0.000	0.006	0.010
pasture_ih_li	0.0037	0.001	4.616	0.000	0.002	0.005
urban_ih_li	0.0679	0.012	5.444	0.000	0.043	0.092
ln_bdist3	-0.0826	0.010	-8.133	0.000	-0.103	-0.063
ln_ttime	-0.1433	0.025	-5.651	0.000	-0.193	-0.094
ln_capdist	0.1086	0.017	6.534	0.000	0.076	0.141
ln_pop	0.2266	0.013	18.026	0.000	0.202	0.251
gcp_li_mer	0.0125	0.020	0.623	0.533	-0.027	0.052
imr_mean	0.0007	3.85e-05	18.787	0.000	0.001	0.001
excluded_dummy_li	0.2892	0.026	11.097	0.000	0.238	0.340
Intercept	-7.2666	0.260	-27.924	0.000	-7.777	-6.757

4.11.2 ns_fcast

Dep. Variable:	ged_dummy_ns	**No. Observations:**	379781
Model:	Logit	**Df Residuals:**	379741
Method:	MLE	**Df Model:**	39
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.4123
Time:	06:56:07	**Log-Likelihood:**	-14071.
converged:	True	**LL-Null:**	-23945.

	coef	std err	z	P>|z|	[0.025	0.975]
l2_ged_dummy_ns	0.4108	0.098	4.191	0.000	0.219	0.603
l3_ged_dummy_ns	0.1564	0.099	1.576	0.115	-0.038	0.351
l4_ged_dummy_ns	0.3159	0.097	3.248	0.001	0.125	0.507
l5_ged_dummy_ns	0.3726	0.103	3.632	0.000	0.172	0.574
l6_ged_dummy_ns	0.1492	0.102	1.458	0.145	-0.051	0.350
l7_ged_dummy_ns	0.2700	0.108	2.489	0.013	0.057	0.483
l8_ged_dummy_ns	0.2967	0.107	2.773	0.006	0.087	0.506
l9_ged_dummy_ns	0.6163	0.109	5.647	0.000	0.402	0.830
l10_ged_dummy_ns	0.3056	0.112	2.738	0.006	0.087	0.524
l11_ged_dummy_ns	0.4572	0.114	4.017	0.000	0.234	0.680
l12_ged_dummy_ns	0.4917	0.116	4.228	0.000	0.264	0.720
q_1_1_l2_ged_dummy_ns	0.5180	0.056	9.245	0.000	0.408	0.628
q_1_1_l3_ged_dummy_ns	0.2117	0.056	3.765	0.000	0.102	0.322
l1_ged_dummy_sb	0.3367	0.149	2.253	0.024	0.044	0.630
l1_ged_dummy_ns	0.3742	0.097	3.858	0.000	0.184	0.564
l1_ged_dummy_os	0.5539	0.137	4.042	0.000	0.285	0.822
decay_12_cw_ged_dummy_sb_0	0.2602	0.112	2.315	0.021	0.040	0.480
decay_12_cw_ged_dummy_ns_0	3.6757	0.095	38.556	0.000	3.489	3.863
decay_12_cw_ged_dummy_os_0	0.6553	0.106	6.189	0.000	0.448	0.863
q_1_1_l1_ged_dummy_sb	-0.1024	0.052	-1.981	0.048	-0.204	-0.001
q_1_1_l1_ged_dummy_ns	0.6943	0.052	13.232	0.000	0.591	0.797
q_1_1_l1_ged_dummy_os	0.2404	0.049	4.917	0.000	0.145	0.336
ln_dist_diamsec	0.2768	0.030	9.136	0.000	0.217	0.336
ln_dist_petroleum	0.4393	0.039	11.172	0.000	0.362	0.516
agri_ih_li	0.0122	0.002	7.086	0.000	0.009	0.016
barren_ih_li	-0.0004	0.002	-0.239	0.811	-0.004	0.003
forest_ih_li	0.0016	0.002	0.973	0.330	-0.002	0.005
mountains_mean	-0.3937	0.071	-5.546	0.000	-0.533	-0.255
savanna_ih_li	0.0031	0.002	1.954	0.051	-8.83e-06	0.006
shrub_ih_li	0.0200	0.002	11.034	0.000	0.016	0.024
pasture_ih_li	0.0087	0.001	6.257	0.000	0.006	0.011
urban_ih_li	0.0472	0.017	2.768	0.006	0.014	0.081
ln_bdist3	-0.0688	0.016	-4.430	0.000	-0.099	-0.038
ln_ttime	0.1270	0.039	3.264	0.001	0.051	0.203
ln_capdist	0.2502	0.026	9.794	0.000	0.200	0.300
ln_pop	0.3826	0.020	18.728	0.000	0.343	0.423
gcp_li_mer	0.0156	0.029	0.543	0.587	-0.041	0.072
imr_mean	-0.0002	6.28e-05	-3.011	0.003	-0.000	-6.6e-05
excluded_dummy_li	0.1050	0.039	2.662	0.008	0.028	0.182
Intercept	-13.3596	0.425	-31.402	0.000	-14.193	-12.526

4.11.3 os_fcast

Dep. Variable:	ged_dummy_os	**No. Observations:**	383402
Model:	Logit	**Df Residuals:**	383362
Method:	MLE	**Df Model:**	39
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.4661
Time:	06:56:53	**Log-Likelihood:**	-21597.
converged:	True	**LL-Null:**	-40452.

	coef	std err	z	P>|z|	[0.025	0.975]
l2_ged_dummy_os	0.1847	0.070	2.649	0.008	0.048	0.321
l3_ged_dummy_os	0.1185	0.070	1.696	0.090	-0.018	0.255
l4_ged_dummy_os	0.0709	0.070	1.019	0.308	-0.065	0.207
l5_ged_dummy_os	0.1871	0.071	2.646	0.008	0.049	0.326
l6_ged_dummy_os	0.1150	0.071	1.614	0.107	-0.025	0.255
l7_ged_dummy_os	0.1127	0.075	1.507	0.132	-0.034	0.259
l8_ged_dummy_os	0.1531	0.075	2.041	0.041	0.006	0.300
l9_ged_dummy_os	0.1303	0.077	1.696	0.090	-0.020	0.281
l10_ged_dummy_os	0.1124	0.077	1.466	0.143	-0.038	0.263
l11_ged_dummy_os	0.3373	0.077	4.362	0.000	0.186	0.489
l12_ged_dummy_os	0.0401	0.080	0.501	0.616	-0.117	0.197
q_1_1_l2_ged_dummy_os	0.2611	0.032	8.041	0.000	0.197	0.325
q_1_1_l3_ged_dummy_os	0.2105	0.032	6.571	0.000	0.148	0.273
l1_ged_dummy_sb	0.2941	0.080	3.695	0.000	0.138	0.450
l1_ged_dummy_ns	0.7812	0.150	5.191	0.000	0.486	1.076
l1_ged_dummy_os	0.2003	0.071	2.807	0.005	0.060	0.340
decay_12_cw_ged_dummy_sb_0	1.5370	0.065	23.471	0.000	1.409	1.665
decay_12_cw_ged_dummy_ns_0	0.0757	0.086	0.884	0.377	-0.092	0.244
decay_12_cw_ged_dummy_os_0	3.1331	0.073	42.824	0.000	2.990	3.277
q_1_1_l1_ged_dummy_sb	0.1755	0.030	5.931	0.000	0.118	0.234
q_1_1_l1_ged_dummy_ns	0.3402	0.052	6.567	0.000	0.239	0.442
q_1_1_l1_ged_dummy_os	0.4235	0.031	13.641	0.000	0.363	0.484
ln_dist_diamsec	-0.1638	0.021	-7.709	0.000	-0.205	-0.122
ln_dist_petroleum	0.3273	0.026	12.372	0.000	0.275	0.379
agri_ih_li	0.0021	0.001	1.579	0.114	-0.000	0.005
barren_ih_li	-0.0033	0.001	-2.607	0.009	-0.006	-0.001
forest_ih_li	0.0013	0.001	1.271	0.204	-0.001	0.003
mountains_mean	-0.1755	0.054	-3.245	0.001	-0.282	-0.070
savanna_ih_li	0.0063	0.001	6.467	0.000	0.004	0.008
shrub_ih_li	0.0041	0.002	2.414	0.016	0.001	0.007
pasture_ih_li	0.0014	0.001	1.457	0.145	-0.000	0.003
urban_ih_li	0.0917	0.012	7.468	0.000	0.068	0.116
ln_bdist3	-0.0915	0.012	-7.817	0.000	-0.114	-0.069
ln_ttime	-0.1940	0.031	-6.235	0.000	-0.255	-0.133
ln_capdist	0.1367	0.017	8.115	0.000	0.104	0.170
ln_pop	0.3269	0.016	20.254	0.000	0.295	0.358
gcp_li_mer	0.0293	0.020	1.466	0.143	-0.010	0.069
imr_mean	0.0005	4.89e-05	9.823	0.000	0.000	0.001
excluded_dummy_li	0.4324	0.030	14.278	0.000	0.373	0.492
Intercept	-9.0239	0.327	-27.596	0.000	-9.665	-8.383

4.11.4 sb_eval

Dep. Variable:	ged_dummy_sb	**No. Observations:**	341244
Model:	Logit	**Df Residuals:**	341204
Method:	MLE	**Df Model:**	39
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.4858
Time:	06:40:54	**Log-Likelihood:**	-23595.
converged:	True	**LL-Null:**	-45888.

	coef	std err	z	P>|z|	[0.025	0.975]
l2_ged_dummy_sb	0.0324	0.059	0.547	0.584	-0.084	0.149
l3_ged_dummy_sb	0.0982	0.059	1.662	0.097	-0.018	0.214
l4_ged_dummy_sb	0.1361	0.060	2.286	0.022	0.019	0.253
l5_ged_dummy_sb	-0.0400	0.061	-0.660	0.510	-0.159	0.079
l6_ged_dummy_sb	0.1867	0.061	3.037	0.002	0.066	0.307
l7_ged_dummy_sb	0.1893	0.061	3.079	0.002	0.069	0.310
l8_ged_dummy_sb	0.3025	0.062	4.888	0.000	0.181	0.424
l9_ged_dummy_sb	0.1925	0.063	3.057	0.002	0.069	0.316
l10_ged_dummy_sb	0.2917	0.063	4.629	0.000	0.168	0.415
l11_ged_dummy_sb	0.3821	0.065	5.909	0.000	0.255	0.509
l12_ged_dummy_sb	0.2632	0.065	4.066	0.000	0.136	0.390
q_1_1_l2_ged_dummy_sb	0.3139	0.029	10.715	0.000	0.256	0.371
q_1_1_l3_ged_dummy_sb	0.2558	0.029	8.951	0.000	0.200	0.312
l1_ged_dummy_sb	-0.0194	0.060	-0.323	0.747	-0.137	0.098
l1_ged_dummy_ns	1.1249	0.217	5.179	0.000	0.699	1.551
l1_ged_dummy_os	0.2027	0.096	2.101	0.036	0.014	0.392
decay_12_cw_ged_dummy_sb_0	3.9227	0.063	62.366	0.000	3.799	4.046
decay_12_cw_ged_dummy_ns_0	-0.9150	0.100	-9.154	0.000	-1.111	-0.719
decay_12_cw_ged_dummy_os_0	1.1269	0.070	16.210	0.000	0.991	1.263
q_1_1_l1_ged_dummy_sb	0.3523	0.029	12.285	0.000	0.296	0.408
q_1_1_l1_ged_dummy_ns	-0.0424	0.088	-0.480	0.631	-0.215	0.131
q_1_1_l1_ged_dummy_os	0.1877	0.035	5.359	0.000	0.119	0.256
ln_dist_diamsec	0.2186	0.021	10.464	0.000	0.178	0.260
ln_dist_petroleum	-0.2460	0.020	-12.273	0.000	-0.285	-0.207
agri_ih_li	-0.0021	0.001	-1.664	0.096	-0.005	0.000
barren_ih_li	-0.0063	0.001	-6.041	0.000	-0.008	-0.004
forest_ih_li	-0.0034	0.001	-3.149	0.002	-0.006	-0.001
mountains_mean	0.0387	0.049	0.793	0.428	-0.057	0.134
savanna_ih_li	-0.0082	0.001	-7.631	0.000	-0.010	-0.006
shrub_ih_li	0.0079	0.001	6.459	0.000	0.006	0.010
pasture_ih_li	0.0032	0.001	3.624	0.000	0.001	0.005
urban_ih_li	0.0794	0.014	5.564	0.000	0.051	0.107
ln_bdist3	-0.0756	0.011	-6.773	0.000	-0.098	-0.054
ln_ttime	-0.1385	0.028	-4.952	0.000	-0.193	-0.084
ln_capdist	0.1363	0.018	7.384	0.000	0.100	0.172
ln_pop	0.2209	0.014	15.926	0.000	0.194	0.248
gcp_li_mer	0.0012	0.022	0.053	0.958	-0.042	0.045
imr_mean	0.0007	4.22e-05	16.730	0.000	0.001	0.001
excluded_dummy_li	0.3232	0.029	11.188	0.000	0.267	0.380
Intercept	-7.3404	0.287	-25.553	0.000	-7.903	-6.777

4.11.5 ns_eval

Dep. Variable:	ged_dummy_ns	**No. Observations:**	335019
Model:	Logit	**Df Residuals:**	334979
Method:	MLE	**Df Model:**	39
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.4255
Time:	06:41:56	**Log-Likelihood:**	-10629.
converged:	True	**LL-Null:**	-18503.

	coef	std err	z	P>|z|	[0.025	0.975]
l2_ged_dummy_ns	0.2727	0.111	2.461	0.014	0.056	0.490
l3_ged_dummy_ns	0.0879	0.113	0.779	0.436	-0.133	0.309
l4_ged_dummy_ns	0.2476	0.111	2.221	0.026	0.029	0.466
l5_ged_dummy_ns	0.1956	0.120	1.634	0.102	-0.039	0.430
l6_ged_dummy_ns	0.0902	0.120	0.749	0.454	-0.146	0.326
l7_ged_dummy_ns	0.1429	0.123	1.158	0.247	-0.099	0.385
l8_ged_dummy_ns	0.5138	0.124	4.144	0.000	0.271	0.757
l9_ged_dummy_ns	0.3960	0.124	3.187	0.001	0.152	0.639
l10_ged_dummy_ns	0.1719	0.131	1.316	0.188	-0.084	0.428
l11_ged_dummy_ns	0.3686	0.134	2.761	0.006	0.107	0.630
l12_ged_dummy_ns	0.4899	0.133	3.693	0.000	0.230	0.750
q_1_1_l2_ged_dummy_ns	0.5236	0.066	7.966	0.000	0.395	0.652
q_1_1_l3_ged_dummy_ns	0.3300	0.066	5.011	0.000	0.201	0.459
l1_ged_dummy_sb	0.6553	0.176	3.713	0.000	0.309	1.001
l1_ged_dummy_ns	0.3705	0.110	3.372	0.001	0.155	0.586
l1_ged_dummy_os	0.8015	0.161	4.992	0.000	0.487	1.116
decay_12_cw_ged_dummy_sb_0	-0.0734	0.132	-0.557	0.577	-0.332	0.185
decay_12_cw_ged_dummy_ns_0	3.8285	0.106	35.952	0.000	3.620	4.037
decay_12_cw_ged_dummy_os_0	0.5763	0.124	4.661	0.000	0.334	0.819
q_1_1_l1_ged_dummy_sb	-0.1217	0.067	-1.808	0.071	-0.254	0.010
q_1_1_l1_ged_dummy_ns	0.5831	0.062	9.364	0.000	0.461	0.705
q_1_1_l1_ged_dummy_os	0.3299	0.059	5.620	0.000	0.215	0.445
ln_dist_diamsec	0.3084	0.035	8.790	0.000	0.240	0.377
ln_dist_petroleum	0.6895	0.050	13.928	0.000	0.592	0.787
agri_ih_li	0.0122	0.002	6.058	0.000	0.008	0.016
barren_ih_li	0.0010	0.002	0.509	0.611	-0.003	0.005
forest_ih_li	0.0039	0.002	2.065	0.039	0.000	0.008
mountains_mean	-0.3067	0.080	-3.821	0.000	-0.464	-0.149
savanna_ih_li	0.0021	0.002	1.127	0.260	-0.002	0.006
shrub_ih_li	0.0232	0.002	11.172	0.000	0.019	0.027
pasture_ih_li	0.0119	0.002	7.396	0.000	0.009	0.015
urban_ih_li	0.0621	0.019	3.319	0.001	0.025	0.099
ln_bdist3	-0.1132	0.018	-6.436	0.000	-0.148	-0.079
ln_ttime	0.1958	0.045	4.334	0.000	0.107	0.284
ln_capdist	0.2296	0.028	8.079	0.000	0.174	0.285
ln_pop	0.4497	0.024	18.570	0.000	0.402	0.497
gcp_li_mer	0.0530	0.032	1.666	0.096	-0.009	0.115
imr_mean	-0.0001	7.28e-05	-1.732	0.083	-0.000	1.66e-05
excluded_dummy_li	0.2706	0.045	5.948	0.000	0.181	0.360
Intercept	-15.3278	0.503	-30.461	0.000	-16.314	-14.342

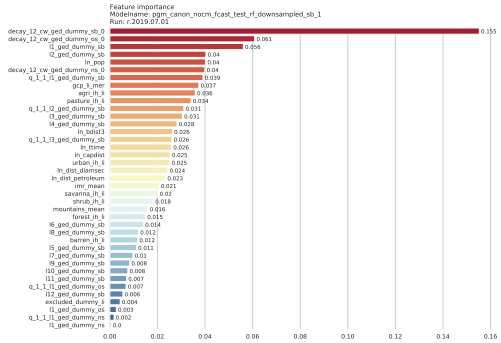
4.11.6 os_eval

Dep. Variable:	ged_dummy_os	**No. Observations:**	338124
Model:	Logit	**Df Residuals:**	338084
Method:	MLE	**Df Model:**	39
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.4583
Time:	06:43:12	**Log-Likelihood:**	-17916.
converged:	True	**LL-Null:**	-33077.

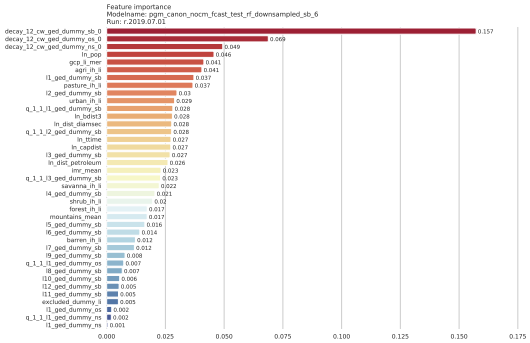
	coef	std err	z	P>|z|	[0.025	0.975]
l2_ged_dummy_os	0.0936	0.077	1.213	0.225	-0.058	0.245
l3_ged_dummy_os	0.0675	0.077	0.879	0.379	-0.083	0.218
l4_ged_dummy_os	-0.0306	0.076	-0.400	0.689	-0.180	0.119
l5_ged_dummy_os	0.2046	0.078	2.621	0.009	0.052	0.358
l6_ged_dummy_os	0.2161	0.081	2.680	0.007	0.058	0.374
l7_ged_dummy_os	0.0464	0.082	0.567	0.571	-0.114	0.207
l8_ged_dummy_os	0.2067	0.083	2.490	0.013	0.044	0.369
l9_ged_dummy_os	0.1920	0.085	2.259	0.024	0.025	0.359
l10_ged_dummy_os	0.1729	0.085	2.026	0.043	0.006	0.340
l11_ged_dummy_os	0.2685	0.084	3.197	0.001	0.104	0.433
l12_ged_dummy_os	0.0700	0.089	0.788	0.431	-0.104	0.244
q_1_1_l2_ged_dummy_os	0.2761	0.037	7.484	0.000	0.204	0.348
q_1_1_l3_ged_dummy_os	0.2757	0.036	7.560	0.000	0.204	0.347
l1_ged_dummy_sb	0.1797	0.089	2.017	0.044	0.005	0.354
l1_ged_dummy_ns	0.7495	0.164	4.583	0.000	0.429	1.070
l1_ged_dummy_os	0.1267	0.078	1.630	0.103	-0.026	0.279
decay_12_cw_ged_dummy_sb_0	1.5814	0.074	21.510	0.000	1.437	1.725
decay_12_cw_ged_dummy_ns_0	0.0577	0.096	0.604	0.546	-0.130	0.245
decay_12_cw_ged_dummy_os_0	3.1675	0.081	38.972	0.000	3.008	3.327
q_1_1_l1_ged_dummy_sb	0.1774	0.034	5.154	0.000	0.110	0.245
q_1_1_l1_ged_dummy_ns	0.2208	0.059	3.766	0.000	0.106	0.336
q_1_1_l1_ged_dummy_os	0.4279	0.035	12.115	0.000	0.359	0.497
ln_dist_diamsec	-0.2112	0.023	-9.075	0.000	-0.257	-0.166
ln_dist_petroleum	0.2877	0.028	10.220	0.000	0.233	0.343
agri_ih_li	0.0042	0.001	2.856	0.004	0.001	0.007
barren_ih_li	-0.0038	0.001	-2.630	0.009	-0.007	-0.001
forest_ih_li	0.0026	0.001	2.256	0.024	0.000	0.005
mountains_mean	-0.1418	0.059	-2.383	0.017	-0.258	-0.025
savanna_ih_li	0.0055	0.001	5.064	0.000	0.003	0.008
shrub_ih_li	0.0027	0.002	1.404	0.160	-0.001	0.006
pasture_ih_li	0.0022	0.001	2.016	0.044	5.98e-05	0.004
urban_ih_li	0.1060	0.014	7.800	0.000	0.079	0.133
ln_bdist3	-0.1017	0.013	-7.906	0.000	-0.127	-0.076
ln_ttime	-0.2227	0.034	-6.460	0.000	-0.290	-0.155
ln_capdist	0.1640	0.019	8.804	0.000	0.128	0.201
ln_pop	0.2987	0.018	16.853	0.000	0.264	0.333
gcp_li_mer	0.0402	0.022	1.806	0.071	-0.003	0.084
imr_mean	0.0004	5.35e-05	8.238	0.000	0.000	0.001
excluded_dummy_li	0.4440	0.034	13.234	0.000	0.378	0.510
Intercept	-8.6097	0.360	-23.911	0.000	-9.315	-7.904

4.12 osa_pgm_canon_nocm_rf

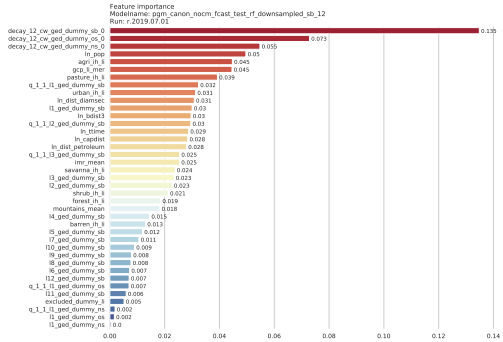
4.12.1 sb_fcast



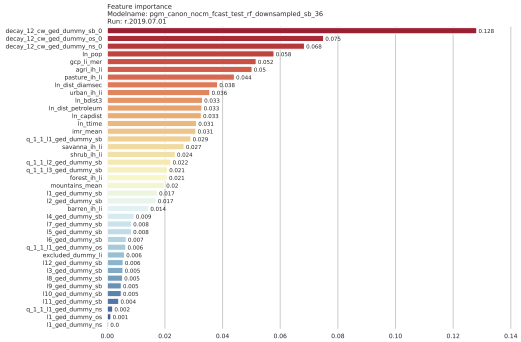
(a) 1 month



(b) 6 months

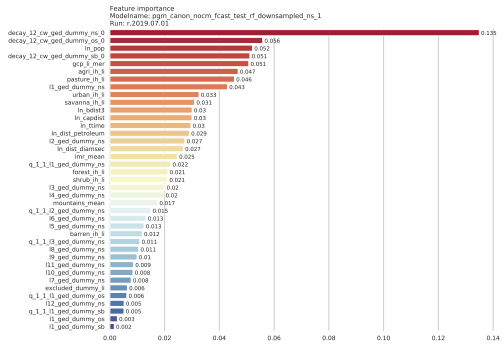


(c) 12 months

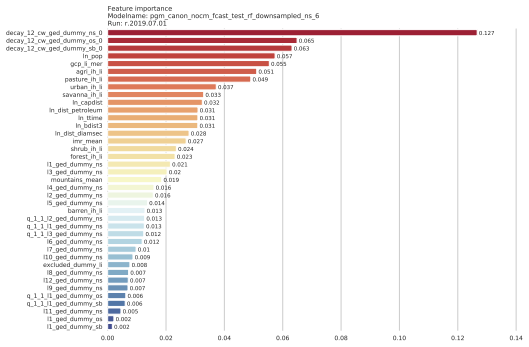


(d) 36 months

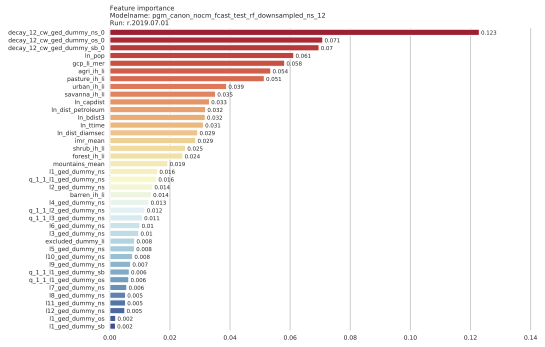
4.12.2 ns_fcast



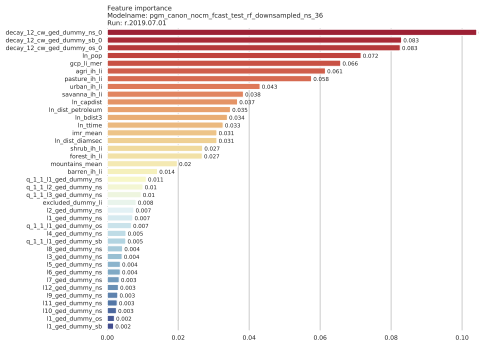
(a) 1 month



(b) 6 months

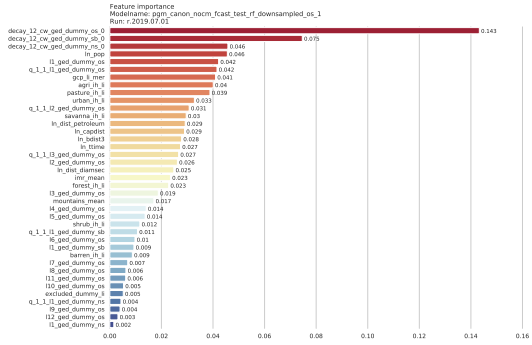


(c) 12 months

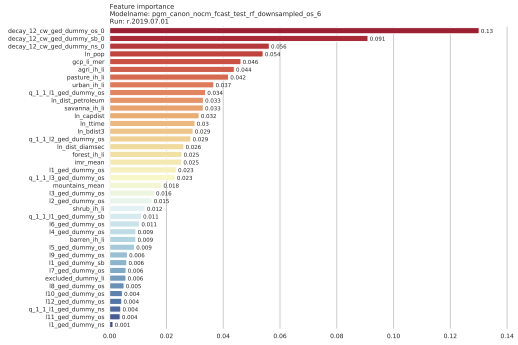


(d) 36 months

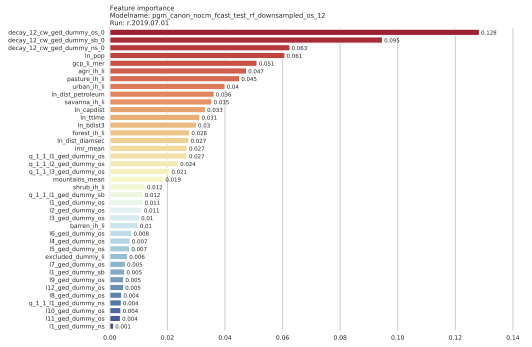
4.12.3 os_fcast



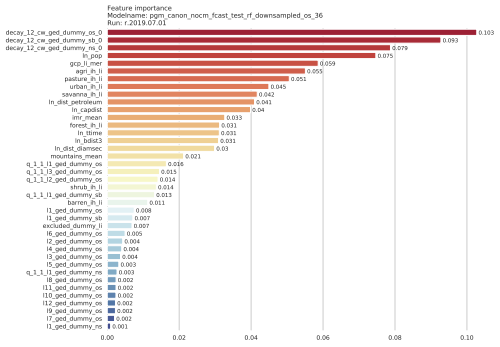
(a) 1 month



(b) 6 months

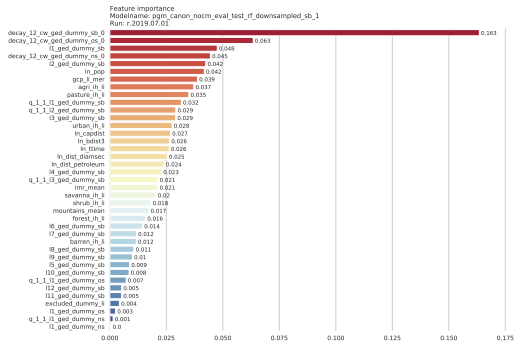


(c) 12 months

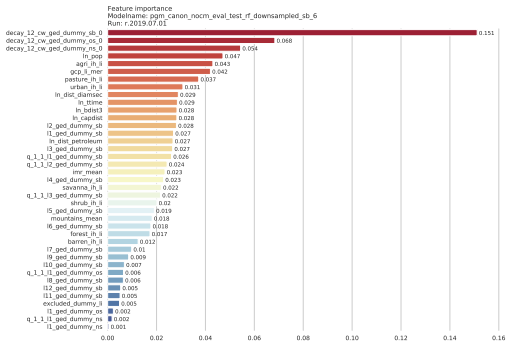


(d) 36 months

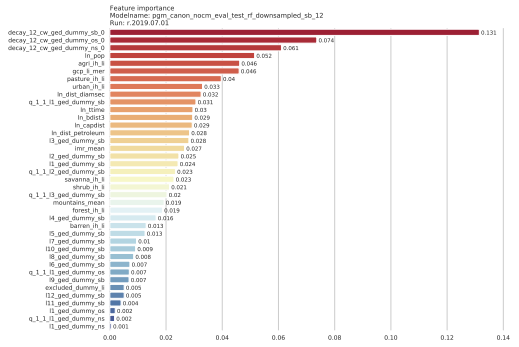
4.12.4 sb_eval



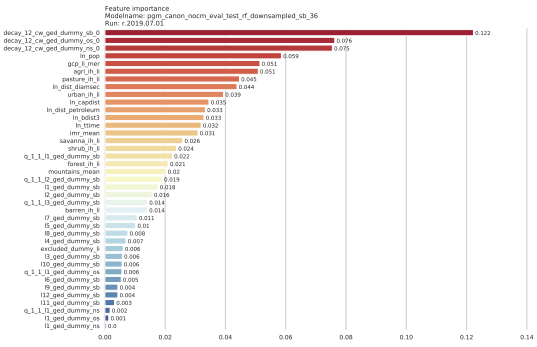
(a) 1 month



(b) 6 months

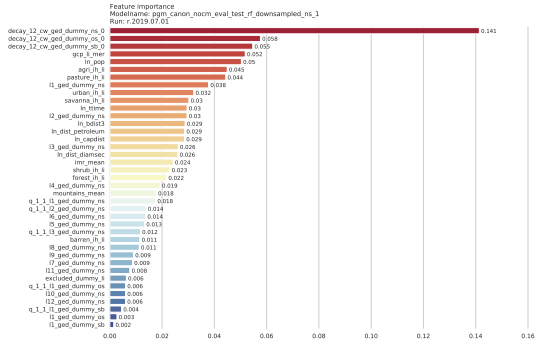


(c) 12 months

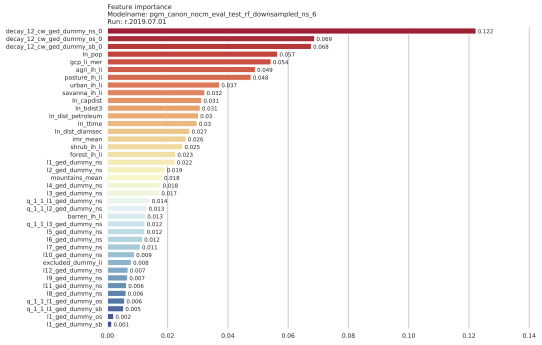


(d) 36 months

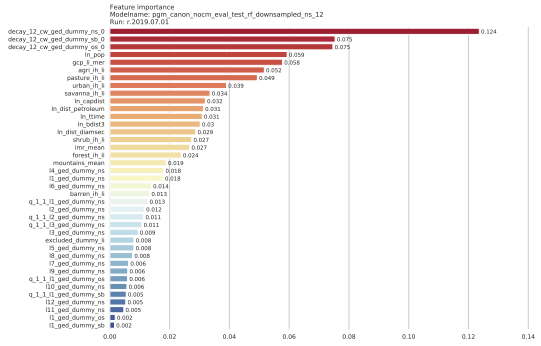
4.12.5 ns_eval



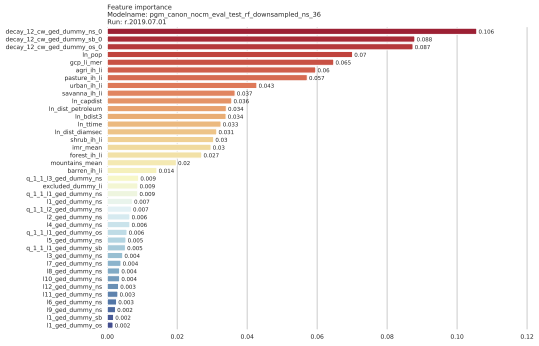
(a) 1 month



(b) 6 months

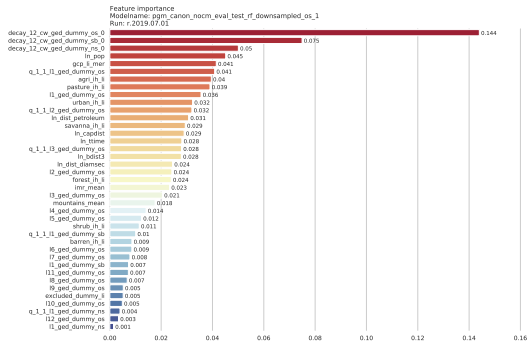


(c) 12 months

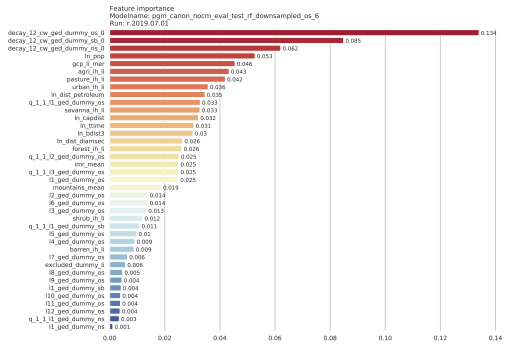


(d) 36 months

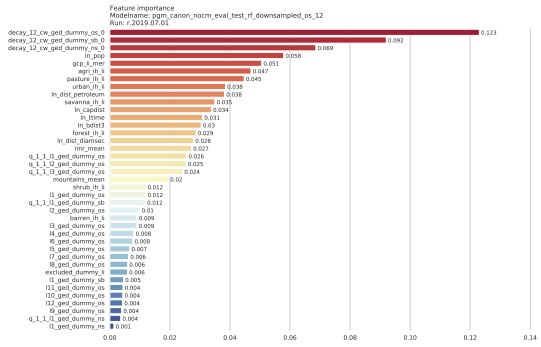
4.12.6 os_eval



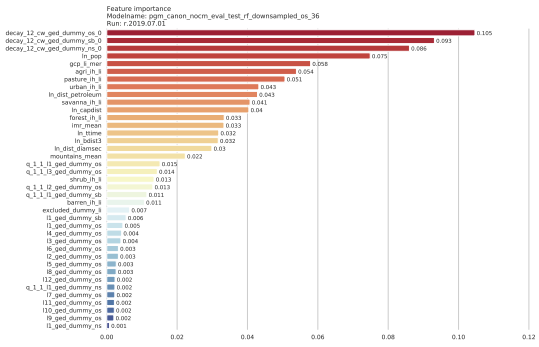
(a) 1 month



(b) 6 months



(c) 12 months



(d) 36 months

4.13 osa_pgm_acled_wcm_logit

4.13.1 sb_fcast

Dep. Variable:	ged_dummy_sb	**No. Observations:**	295446
Model:	Logit	**Df Residuals:**	295390
Method:	MLE	**Df Model:**	55
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.5188
Time:	07:38:53	**Log-Likelihood:**	-21564.
converged:	True	**LL-Null:**	-44811.

	coef	std err	z	P>|z|	[0.025	0.975]
l2_ged_dummy_sb	-0.2610	0.058	-4.502	0.000	-0.375	-0.147
l3_ged_dummy_sb	-0.0579	0.058	-0.992	0.321	-0.172	0.056
l4_ged_dummy_sb	0.0460	0.059	0.774	0.439	-0.070	0.162
l5_ged_dummy_sb	-0.0544	0.060	-0.907	0.365	-0.172	0.063
l6_ged_dummy_sb	0.0865	0.060	1.437	0.151	-0.031	0.204
l7_ged_dummy_sb	0.1170	0.061	1.924	0.054	-0.002	0.236
l8_ged_dummy_sb	0.2351	0.061	3.877	0.000	0.116	0.354
l9_ged_dummy_sb	0.2186	0.063	3.481	0.000	0.096	0.342
l10_ged_dummy_sb	0.2349	0.062	3.797	0.000	0.114	0.356
l11_ged_dummy_sb	0.3003	0.063	4.782	0.000	0.177	0.423
l12_ged_dummy_sb	0.1628	0.063	2.568	0.010	0.039	0.287
q_1_1_l2_ged_dummy_sb	0.2103	0.028	7.593	0.000	0.156	0.265
q_1_1_l3_ged_dummy_sb	0.1434	0.027	5.258	0.000	0.090	0.197
l1_ged_dummy_sb	-0.1021	0.059	-1.735	0.083	-0.217	0.013
l1_ged_dummy_ns	-0.2715	0.208	-1.307	0.191	-0.679	0.136
l1_ged_dummy_os	0.0299	0.093	0.323	0.747	-0.152	0.211
l1_acled_dummy_pr	0.1532	0.096	1.592	0.111	-0.035	0.342
decay_12_cw_ged_dummy_sb_0	3.8093	0.060	63.304	0.000	3.691	3.927
decay_12_cw_ged_dummy_ns_0	0.4731	0.105	4.485	0.000	0.266	0.680
decay_12_cw_ged_dummy_os_0	1.4791	0.066	22.293	0.000	1.349	1.609
decay_12_cw_acled_dummy_pr_0	0.4685	0.070	6.707	0.000	0.332	0.605
q_1_1_l1_ged_dummy_sb	0.3999	0.027	14.705	0.000	0.347	0.453
q_1_1_l1_ged_dummy_ns	-0.0881	0.079	-1.108	0.268	-0.244	0.068
q_1_1_l1_ged_dummy_os	0.1526	0.034	4.542	0.000	0.087	0.219
q_1_1_l1_acled_dummy_pr	-0.1425	0.035	-4.111	0.000	-0.210	-0.075
ln_dist_diamsec	0.3491	0.025	13.966	0.000	0.300	0.398
ln_dist_petroleum	-0.0601	0.027	-2.191	0.028	-0.114	-0.006
agri_ih_li	-0.0046	0.001	-3.302	0.001	-0.007	-0.002
barren_ih_li	-0.0061	0.001	-5.385	0.000	-0.008	-0.004
forest_ih_li	-0.0023	0.001	-1.913	0.056	-0.005	5.63e-05
mountains_mean	-0.1728	0.055	-3.152	0.002	-0.280	-0.065
savanna_ih_li	-0.0013	0.001	-1.120	0.263	-0.004	0.001
shrub_ih_li	0.0119	0.001	8.793	0.000	0.009	0.015
pasture_ih_li	0.0015	0.001	1.528	0.127	-0.000	0.003
urban_ih_li	0.0251	0.015	1.710	0.087	-0.004	0.054
ln_bdist3	-0.0966	0.012	-7.926	0.000	-0.121	-0.073
ln_ttime	-0.1740	0.029	-5.955	0.000	-0.231	-0.117
ln_capdist	0.0908	0.022	4.153	0.000	0.048	0.134
ln_pop	0.1795	0.016	11.362	0.000	0.149	0.210
gcp_li_mer	0.0971	0.021	4.672	0.000	0.056	0.138
imr_mean	0.0006	5.84e-05	9.651	0.000	0.000	0.001
excluded_dummy_li	0.1134	0.032	3.523	0.000	0.050	0.176
fvp_lngdpcap_nonoilrent	-0.1839	0.034	-5.484	0.000	-0.250	-0.118
fvp_lngdpcap_oilrent	0.0885	0.008	11.467	0.000	0.073	0.104
fvp_grgdpcap_oilrent	-0.1198	0.033	-3.646	0.000	-0.184	-0.055
fvp_grgdpcap_nonoilrent	-0.3208	0.098	-3.272	0.001	-0.513	-0.129
ln_fvp_timeindep	0.1381	0.050	2.772	0.006	0.040	0.236
ln_fvp_timesincepreindepwar	-0.0594	0.040	-1.491	0.136	-0.137	0.019
ln_fvp_timesinceregimechange	-0.1292	0.016	-7.969	0.000	-0.161	-0.097
fvp_demo	-0.6205	0.056	-11.082	0.000	-0.730	-0.511
fvp_semi	-0.3230	0.046	-6.997	0.000	-0.413	-0.233
fvp_prop_excluded	0.1782	0.065	2.734	0.006	0.050	0.306
ln_fvp_population200	0.0219	0.020	1.096	0.273	-0.017	0.061
ssp2_edu_sec_15_24_prop	-0.0964	0.121	-0.794	0.427	-0.334	0.141
ssp2_urban_share_iiasa	-0.0006	0.002	-0.421	0.674	-0.004	0.002
Intercept	-5.2819	0.432	-12.225	0.000	-6.129	-4.435

4.13.2 ns_fcast

Dep. Variable:	ged_dummy_ns	**No. Observations:**	289211
Model:	Logit	**Df Residuals:**	289155
Method:	MLE	**Df Model:**	55
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.3949
Time:	06:44:58	**Log-Likelihood:**	-11210.
converged:	True	**LL-Null:**	-18527.

	coef	std err	z	P>|z|	[0.025	0.975]
l2_ged_dummy_ns	-0.0752	0.104	-0.723	0.470	-0.279	0.129
l3_ged_dummy_ns	-0.0690	0.107	-0.646	0.518	-0.279	0.140
l4_ged_dummy_ns	0.1282	0.107	1.202	0.229	-0.081	0.337
l5_ged_dummy_ns	0.0600	0.107	0.559	0.576	-0.150	0.270
l6_ged_dummy_ns	0.0268	0.110	0.243	0.808	-0.189	0.242
l7_ged_dummy_ns	0.0449	0.113	0.396	0.692	-0.177	0.267
l8_ged_dummy_ns	0.3771	0.114	3.314	0.001	0.154	0.600
l9_ged_dummy_ns	0.4133	0.113	3.660	0.000	0.192	0.635
l10_ged_dummy_ns	0.3011	0.122	2.467	0.014	0.062	0.540
l11_ged_dummy_ns	0.2196	0.121	1.808	0.071	-0.018	0.458
l12_ged_dummy_ns	0.3430	0.122	2.806	0.005	0.103	0.583
q_1_1_l2_ged_dummy_ns	0.4352	0.061	7.128	0.000	0.316	0.555
q_1_1_l3_ged_dummy_ns	0.2224	0.062	3.569	0.000	0.100	0.345
l1_ged_dummy_sb	-0.1045	0.147	-0.709	0.479	-0.394	0.185
l1_ged_dummy_ns	0.0443	0.104	0.426	0.670	-0.160	0.248
l1_ged_dummy_os	0.2224	0.139	1.595	0.111	-0.051	0.496
l1_acled_dummy_pr	0.0290	0.108	0.267	0.789	-0.184	0.242
decay_12_cw_ged_dummy_sb_0	0.8648	0.110	7.894	0.000	0.650	1.080
decay_12_cw_ged_dummy_ns_0	3.9244	0.100	39.058	0.000	3.728	4.121
decay_12_cw_ged_dummy_os_0	1.1823	0.108	10.918	0.000	0.970	1.395
decay_12_cw_acled_dummy_pr_0	0.8972	0.088	10.139	0.000	0.724	1.071
q_1_1_l1_ged_dummy_sb	-0.2436	0.054	-4.514	0.000	-0.349	-0.138
q_1_1_l1_ged_dummy_ns	0.6828	0.057	12.026	0.000	0.571	0.794
q_1_1_l1_ged_dummy_os	0.0505	0.053	0.961	0.336	-0.053	0.154
q_1_1_l1_acled_dummy_pr	0.0801	0.036	2.241	0.025	0.010	0.150
ln_dist_diamsec	0.4186	0.040	10.456	0.000	0.340	0.497
ln_dist_petroleum	0.5351	0.052	10.217	0.000	0.432	0.638
agri_ih_li	0.0076	0.002	3.649	0.000	0.004	0.012
barren_ih_li	-0.0044	0.002	-2.405	0.016	-0.008	-0.001
forest_ih_li	-0.0041	0.002	-2.081	0.037	-0.008	-0.000
mountains_mean	-0.1882	0.085	-2.213	0.027	-0.355	-0.022
savanna_ih_li	0.0068	0.002	3.815	0.000	0.003	0.010
shrub_ih_li	0.0204	0.002	9.655	0.000	0.016	0.025
pasture_ih_li	0.0054	0.002	3.243	0.001	0.002	0.009
urban_ih_li	0.0087	0.020	0.443	0.658	-0.030	0.047
ln_bdist3	-0.0559	0.018	-3.038	0.002	-0.092	-0.020
ln_ttime	0.0959	0.045	2.138	0.033	0.008	0.184
ln_capdist	0.1217	0.032	3.752	0.000	0.058	0.185
ln_pop	0.1916	0.024	8.020	0.000	0.145	0.238
gcp_li_mer	0.0529	0.031	1.706	0.088	-0.008	0.114
imr_mean	-0.0001	8.95e-05	-1.159	0.247	-0.000	7.17e-05
excluded_dummy_li	0.1462	0.047	3.132	0.002	0.055	0.238
fvp_lngdpcap_nonoilrent	-0.1747	0.048	-3.673	0.000	-0.268	-0.081
fvp_lngdpcap_oilrent	0.1069	0.011	9.497	0.000	0.085	0.129
fvp_grgdpcap_oilrent	-0.2704	0.051	-5.316	0.000	-0.370	-0.171
fvp_grgdpcap_nonoilrent	-0.4000	0.133	-3.012	0.003	-0.660	-0.140
ln_fvp_timeindep	-0.2876	0.076	-3.777	0.000	-0.437	-0.138
ln_fvp_timesincepreindepwar	0.4486	0.064	6.959	0.000	0.322	0.575
ln_fvp_timesinceregimechange	-0.1549	0.022	-7.023	0.000	-0.198	-0.112
fvp_demo	-0.5043	0.078	-6.438	0.000	-0.658	-0.351
fvp_semi	-0.1998	0.070	-2.862	0.004	-0.337	-0.063
fvp_prop_excluded	-0.9823	0.115	-8.513	0.000	-1.208	-0.756
ln_fvp_population200	0.0355	0.029	1.206	0.228	-0.022	0.093
ssp2_edu_sec_15_24_prop	0.8415	0.165	5.097	0.000	0.518	1.165
ssp2_urban_share_iiasa	-0.0013	0.002	-0.581	0.561	-0.006	0.003
Intercept	-10.3716	0.646	-16.051	0.000	-11.638	-9.105

4.13.3 os_fcast

Dep. Variable:	ged_dummy_os	**No. Observations:**	292193
Model:	Logit	**Df Residuals:**	292137
Method:	MLE	**Df Model:**	55
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.4896
Time:	06:42:33	**Log-Likelihood:**	-16333.
converged:	True	**LL-Null:**	-32000.

	coef	std err	z	P>|z|	[0.025	0.975]
l2_ged_dummy_os	0.1149	0.075	1.532	0.126	-0.032	0.262
l3_ged_dummy_os	0.0138	0.076	0.183	0.855	-0.134	0.162
l4_ged_dummy_os	-0.0690	0.075	-0.916	0.359	-0.216	0.079
l5_ged_dummy_os	0.1494	0.076	1.960	0.050	-1.09e-05	0.299
l6_ged_dummy_os	0.1163	0.077	1.511	0.131	-0.035	0.267
l7_ged_dummy_os	0.1615	0.079	2.033	0.042	0.006	0.317
l8_ged_dummy_os	0.0188	0.081	0.233	0.815	-0.139	0.177
l9_ged_dummy_os	-0.0678	0.080	-0.845	0.398	-0.225	0.089
l10_ged_dummy_os	0.1720	0.081	2.130	0.033	0.014	0.330
l11_ged_dummy_os	0.0123	0.082	0.150	0.880	-0.148	0.172
l12_ged_dummy_os	-0.0520	0.085	-0.609	0.542	-0.219	0.115
q_1_1_l2_ged_dummy_os	0.2684	0.035	7.681	0.000	0.200	0.337
q_1_1_l3_ged_dummy_os	0.1445	0.034	4.226	0.000	0.077	0.211
l1_ged_dummy_sb	0.0109	0.082	0.134	0.893	-0.149	0.171
l1_ged_dummy_ns	-0.0679	0.171	-0.397	0.692	-0.403	0.268
l1_ged_dummy_os	0.0470	0.076	0.620	0.535	-0.102	0.195
l1_acled_dummy_pr	-0.0573	0.091	-0.628	0.530	-0.236	0.121
decay_12_cw_ged_dummy_sb_0	1.8485	0.069	26.940	0.000	1.714	1.983
decay_12_cw_ged_dummy_ns_0	0.9945	0.098	10.115	0.000	0.802	1.187
decay_12_cw_ged_dummy_os_0	2.9168	0.076	38.251	0.000	2.767	3.066
decay_12_cw_acled_dummy_pr_0	1.0386	0.072	14.385	0.000	0.897	1.180
q_1_1_l1_ged_dummy_sb	0.1342	0.030	4.467	0.000	0.075	0.193
q_1_1_l1_ged_dummy_ns	0.1498	0.066	2.261	0.024	0.020	0.280
q_1_1_l1_ged_dummy_os	0.4246	0.034	12.448	0.000	0.358	0.491
q_1_1_l1_acled_dummy_pr	0.0148	0.032	0.466	0.641	-0.047	0.077
ln_dist_diamsec	-0.0293	0.028	-1.054	0.292	-0.084	0.025
ln_dist_petroleum	0.3477	0.036	9.647	0.000	0.277	0.418
agri_ih_li	0.0022	0.002	1.398	0.162	-0.001	0.005
barren_ih_li	-0.0090	0.001	-6.033	0.000	-0.012	-0.006
forest_ih_li	0.0017	0.001	1.373	0.170	-0.001	0.004
mountains_mean	-0.2254	0.067	-3.386	0.001	-0.356	-0.095
savanna_ih_li	0.0101	0.001	8.854	0.000	0.008	0.012
shrub_ih_li	0.0028	0.002	1.346	0.178	-0.001	0.007
pasture_ih_li	-0.0040	0.001	-3.494	0.000	-0.006	-0.002
urban_ih_li	0.0532	0.015	3.451	0.001	0.023	0.083
ln_bdist3	-0.0894	0.014	-6.301	0.000	-0.117	-0.062
ln_ttime	-0.2063	0.037	-5.643	0.000	-0.278	-0.135
ln_capdist	0.1393	0.024	5.772	0.000	0.092	0.187
ln_pop	0.2092	0.020	10.343	0.000	0.170	0.249
gcp_li_mer	0.1174	0.021	5.609	0.000	0.076	0.158
imr_mean	0.0003	6.85e-05	4.161	0.000	0.000	0.000
excluded_dummy_li	0.1525	0.038	4.047	0.000	0.079	0.226
fvp_lngdpcap_nonoilrent	-0.3383	0.038	-8.975	0.000	-0.412	-0.264
fvp_lngdpcap_oilrent	0.0915	0.009	9.647	0.000	0.073	0.110
fvp_grgdpcap_oilrent	-0.1747	0.040	-4.367	0.000	-0.253	-0.096
fvp_grgdpcap_nonoilrent	-0.3011	0.107	-2.815	0.005	-0.511	-0.091
ln_fvp_timeindep	-0.0508	0.058	-0.872	0.383	-0.165	0.063
ln_fvp_timesincepreindepwar	0.0888	0.047	1.902	0.057	-0.003	0.180
ln_fvp_timesinceregimechange	-0.1068	0.018	-5.807	0.000	-0.143	-0.071
fvp_demo	-0.9408	0.065	-14.426	0.000	-1.069	-0.813
fvp_semi	-0.3429	0.054	-6.382	0.000	-0.448	-0.238
fvp_prop_excluded	0.1620	0.073	2.218	0.027	0.019	0.305
ln_fvp_population200	0.0162	0.024	0.676	0.499	-0.031	0.063
ssp2_edu_sec_15_24_prop	0.0785	0.137	0.573	0.567	-0.190	0.347
ssp2_urban_share_iiasa	0.0001	0.002	0.062	0.950	-0.003	0.004
Intercept	-4.8196	0.506	-9.525	0.000	-5.811	-3.828

4.13.4 pr_fcast

Dep. Variable:	acled_dummy_pr	**No. Observations:**	308410
Model:	Logit	**Df Residuals:**	308354
Method:	MLE	**Df Model:**	55
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.5656
Time:	06:44:14	**Log-Likelihood:**	-37421.
converged:	True	**LL-Null:**	-86142.

	coef	std err	z	P>|z|	[0.025	0.975]
l2_acled_dummy_pr	0.0454	0.040	1.145	0.252	-0.032	0.123
l3_acled_dummy_pr	0.1134	0.039	2.876	0.004	0.036	0.191
l4_acled_dummy_pr	0.0626	0.039	1.590	0.112	-0.015	0.140
l5_acled_dummy_pr	0.1471	0.040	3.699	0.000	0.069	0.225
l6_acled_dummy_pr	0.1920	0.040	4.821	0.000	0.114	0.270
l7_acled_dummy_pr	0.2127	0.040	5.336	0.000	0.135	0.291
l8_acled_dummy_pr	0.2007	0.041	4.941	0.000	0.121	0.280
l9_acled_dummy_pr	0.2940	0.041	7.140	0.000	0.213	0.375
l10_acled_dummy_pr	0.2931	0.041	7.195	0.000	0.213	0.373
l11_acled_dummy_pr	0.4165	0.041	10.192	0.000	0.336	0.497
l12_acled_dummy_pr	0.3493	0.042	8.377	0.000	0.268	0.431
q_1_1_l2_acled_dummy_pr	0.1314	0.019	6.957	0.000	0.094	0.168
q_1_1_l3_acled_dummy_pr	-0.0078	0.018	-0.424	0.671	-0.044	0.028
l1_ged_dummy_sb	-0.1916	0.100	-1.906	0.057	-0.389	0.005
l1_ged_dummy_ns	-0.0396	0.155	-0.256	0.798	-0.343	0.264
l1_ged_dummy_os	0.0124	0.115	0.108	0.914	-0.213	0.238
l1_acled_dummy_pr	0.0257	0.040	0.646	0.518	-0.052	0.104
decay_12_cw_ged_dummy_sb_0	0.6689	0.068	9.778	0.000	0.535	0.803
decay_12_cw_ged_dummy_ns_0	0.6496	0.083	7.792	0.000	0.486	0.813
decay_12_cw_ged_dummy_os_0	0.4770	0.073	6.520	0.000	0.334	0.620
decay_12_cw_acled_dummy_pr_0	3.2075	0.042	76.858	0.000	3.126	3.289
q_1_1_l1_ged_dummy_sb	-0.1790	0.036	-4.929	0.000	-0.250	-0.108
q_1_1_l1_ged_dummy_ns	0.0183	0.058	0.318	0.751	-0.095	0.131
q_1_1_l1_ged_dummy_os	-0.0195	0.041	-0.469	0.639	-0.101	0.062
q_1_1_l1_acled_dummy_pr	0.1835	0.018	10.228	0.000	0.148	0.219
ln_dist_diamsec	0.1434	0.016	8.697	0.000	0.111	0.176
ln_dist_petroleum	0.1019	0.021	4.844	0.000	0.061	0.143
agri_ih_li	0.0025	0.001	2.958	0.003	0.001	0.004
barren_ih_li	0.0027	0.001	3.424	0.001	0.001	0.004
forest_ih_li	0.0020	0.001	2.254	0.024	0.000	0.004
mountains_mean	0.0357	0.038	0.936	0.349	-0.039	0.110
savanna_ih_li	0.0028	0.001	3.365	0.001	0.001	0.004
shrub_ih_li	0.0069	0.001	6.022	0.000	0.005	0.009
pasture_ih_li	0.0048	0.001	6.663	0.000	0.003	0.006
urban_ih_li	0.0985	0.009	11.582	0.000	0.082	0.115
ln_bdist3	-0.0766	0.009	-8.538	0.000	-0.094	-0.059
ln_ttime	-0.4778	0.021	-23.241	0.000	-0.518	-0.437
ln_capdist	-0.0386	0.014	-2.838	0.005	-0.065	-0.012
ln_pop	0.3178	0.011	29.233	0.000	0.297	0.339
gcp_li_mer	-0.1111	0.012	-8.991	0.000	-0.135	-0.087
imr_mean	0.0003	4.39e-05	6.108	0.000	0.000	0.000
excluded_dummy_li	0.0370	0.025	1.508	0.132	-0.011	0.085
fvp_lngdpcap_nonoilrent	-0.0428	0.022	-1.984	0.047	-0.085	-0.001
fvp_lngdpcap_oilrent	-0.0234	0.005	-4.576	0.000	-0.033	-0.013
fvp_grgdpcap_oilrent	-0.3146	0.025	-12.347	0.000	-0.365	-0.265
fvp_grgdpcap_nonoilrent	-0.1387	0.069	-2.000	0.046	-0.275	-0.003
ln_fvp_timeindep	0.5315	0.035	15.160	0.000	0.463	0.600
ln_fvp_timesincepreindepwar	-0.1069	0.031	-3.468	0.001	-0.167	-0.047
ln_fvp_timesinceregimechange	-0.0200	0.011	-1.894	0.058	-0.041	0.001
fvp_demo	-0.0397	0.042	-0.954	0.340	-0.121	0.042
fvp_semi	-0.2228	0.037	-6.069	0.000	-0.295	-0.151
fvp_prop_excluded	0.4458	0.058	7.741	0.000	0.333	0.559
ln_fvp_population200	-0.1561	0.014	-11.444	0.000	-0.183	-0.129
ssp2_edu_sec_15_24_prop	1.7168	0.078	22.025	0.000	1.564	1.870
ssp2_urban_share_iiasa	8.187e-05	0.001	0.074	0.941	-0.002	0.002
Intercept	-5.2769	0.289	-18.236	0.000	-5.844	-4.710

4.13.5 sb_eval

Dep. Variable:	ged_dummy_sb	**No. Observations:**	249432
Model:	Logit	**Df Residuals:**	249376
Method:	MLE	**Df Model:**	55
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.5103
Time:	06:35:41	**Log-Likelihood:**	-17079.
converged:	True	**LL-Null:**	-34876.

	coef	std err	z	P>|z|	[0.025	0.975]
l2_ged_dummy_sb	-0.1798	0.067	-2.679	0.007	-0.311	-0.048
l3_ged_dummy_sb	-0.0162	0.067	-0.242	0.809	-0.148	0.115
l4_ged_dummy_sb	0.0222	0.068	0.329	0.742	-0.110	0.155
l5_ged_dummy_sb	-0.0659	0.069	-0.952	0.341	-0.202	0.070
l6_ged_dummy_sb	0.0779	0.070	1.119	0.263	-0.059	0.214
l7_ged_dummy_sb	0.2045	0.070	2.911	0.004	0.067	0.342
l8_ged_dummy_sb	0.2026	0.069	2.941	0.003	0.068	0.338
l9_ged_dummy_sb	0.2085	0.072	2.893	0.004	0.067	0.350
l10_ged_dummy_sb	0.1818	0.071	2.564	0.010	0.043	0.321
l11_ged_dummy_sb	0.1852	0.073	2.546	0.011	0.043	0.328
l12_ged_dummy_sb	0.1744	0.074	2.368	0.018	0.030	0.319
q_1_1_l2_ged_dummy_sb	0.2079	0.032	6.470	0.000	0.145	0.271
q_1_1_l3_ged_dummy_sb	0.1660	0.031	5.309	0.000	0.105	0.227
l1_ged_dummy_sb	-0.0780	0.068	-1.141	0.254	-0.212	0.056
l1_ged_dummy_ns	-0.1993	0.249	-0.801	0.423	-0.687	0.288
l1_ged_dummy_os	-0.2608	0.104	-2.516	0.012	-0.464	-0.058
l1_acled_dummy_pr	0.1318	0.125	1.057	0.291	-0.113	0.376
decay_12_cw_ged_dummy_sb_0	3.7432	0.069	54.515	0.000	3.609	3.878
decay_12_cw_ged_dummy_ns_0	0.5021	0.123	4.088	0.000	0.261	0.743
decay_12_cw_ged_dummy_os_0	1.5781	0.076	20.824	0.000	1.430	1.727
decay_12_cw_acled_dummy_pr_0	0.4660	0.086	5.416	0.000	0.297	0.635
q_1_1_l1_ged_dummy_sb	0.3145	0.032	9.951	0.000	0.253	0.376
q_1_1_l1_ged_dummy_ns	-0.1152	0.103	-1.118	0.263	-0.317	0.087
q_1_1_l1_ged_dummy_os	0.2893	0.039	7.425	0.000	0.213	0.366
q_1_1_l1_acled_dummy_pr	-0.1374	0.049	-2.789	0.005	-0.234	-0.041
ln_dist_diamsec	0.2955	0.028	10.451	0.000	0.240	0.351
ln_dist_petroleum	-0.0111	0.031	-0.352	0.725	-0.073	0.051
agri_ih_li	-0.0004	0.002	-0.251	0.802	-0.004	0.003
barren_ih_li	-0.0073	0.001	-5.546	0.000	-0.010	-0.005
forest_ih_li	-0.0016	0.001	-1.173	0.241	-0.004	0.001
mountains_mean	-0.0788	0.061	-1.298	0.194	-0.198	0.040
savanna_ih_li	-0.0013	0.001	-1.017	0.309	-0.004	0.001
shrub_ih_li	0.0140	0.002	9.094	0.000	0.011	0.017
pasture_ih_li	0.0023	0.001	2.045	0.041	9.43e-05	0.004
urban_ih_li	0.0233	0.018	1.271	0.204	-0.013	0.059
ln_bdist3	-0.1006	0.014	-7.190	0.000	-0.128	-0.073
ln_ttime	-0.1537	0.033	-4.629	0.000	-0.219	-0.089
ln_capdist	0.0777	0.026	3.031	0.002	0.027	0.128
ln_pop	0.1624	0.018	8.858	0.000	0.126	0.198
gcp_li_mer	0.1331	0.024	5.447	0.000	0.085	0.181
imr_mean	0.0005	6.72e-05	7.626	0.000	0.000	0.001
excluded_dummy_li	0.1279	0.037	3.435	0.001	0.055	0.201
fvp_lngdpcap_nonoilrent	-0.1976	0.042	-4.746	0.000	-0.279	-0.116
fvp_lngdpcap_oilrent	0.1071	0.009	11.893	0.000	0.089	0.125
fvp_grgdpcap_oilrent	-0.1597	0.036	-4.381	0.000	-0.231	-0.088
fvp_grgdpcap_nonoilrent	-0.5372	0.113	-4.755	0.000	-0.759	-0.316
ln_fvp_timeindep	0.2836	0.056	5.085	0.000	0.174	0.393
ln_fvp_timesincepreindepwar	-0.1452	0.045	-3.209	0.001	-0.234	-0.057
ln_fvp_timesinceregimechange	-0.1560	0.023	-6.888	0.000	-0.200	-0.112
fvp_demo	-0.8708	0.068	-12.886	0.000	-1.003	-0.738
fvp_semi	-0.3990	0.053	-7.542	0.000	-0.503	-0.295
fvp_prop_excluded	0.2259	0.069	3.251	0.001	0.090	0.362
ln_fvp_population200	0.0341	0.026	1.288	0.198	-0.018	0.086
ssp2_edu_sec_15_24_prop	0.1049	0.152	0.691	0.490	-0.193	0.403
ssp2_urban_share_iiasa	-0.0012	0.002	-0.726	0.468	-0.004	0.002
Intercept	-5.3879	0.514	-10.485	0.000	-6.395	-4.381

4.13.6 ns_eval

Dep. Variable:	ged_dummy_ns	**No. Observations:**	244449
Model:	Logit	**Df Residuals:**	244393
Method:	MLE	**Df Model:**	55
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.3857
Time:	06:24:39	**Log-Likelihood:**	-8036.6
converged:	True	**LL-Null:**	-13082.

	coef	std err	z	P>|z|	[0.025	0.975]
l2_ged_dummy_ns	0.1421	0.126	1.128	0.259	-0.105	0.389
l3_ged_dummy_ns	0.0646	0.127	0.509	0.611	-0.184	0.313
l4_ged_dummy_ns	0.1267	0.126	1.007	0.314	-0.120	0.373
l5_ged_dummy_ns	0.0238	0.129	0.184	0.854	-0.229	0.277
l6_ged_dummy_ns	-0.1434	0.132	-1.083	0.279	-0.403	0.116
l7_ged_dummy_ns	0.0676	0.136	0.498	0.618	-0.199	0.334
l8_ged_dummy_ns	0.4181	0.131	3.193	0.001	0.161	0.675
l9_ged_dummy_ns	0.4328	0.132	3.269	0.001	0.173	0.692
l10_ged_dummy_ns	0.1422	0.146	0.976	0.329	-0.143	0.428
l11_ged_dummy_ns	0.2746	0.149	1.844	0.065	-0.017	0.566
l12_ged_dummy_ns	0.3367	0.144	2.335	0.020	0.054	0.619
q_1_1_l2_ged_dummy_ns	0.4036	0.075	5.402	0.000	0.257	0.550
q_1_1_l3_ged_dummy_ns	0.1602	0.076	2.097	0.036	0.010	0.310
l1_ged_dummy_sb	-0.0655	0.184	-0.357	0.721	-0.426	0.295
l1_ged_dummy_ns	0.1788	0.126	1.413	0.158	-0.069	0.427
l1_ged_dummy_os	0.5872	0.173	3.397	0.001	0.248	0.926
l1_acled_dummy_pr	0.1964	0.144	1.366	0.172	-0.086	0.478
decay_12_cw_ged_dummy_sb_0	0.7720	0.131	5.873	0.000	0.514	1.030
decay_12_cw_ged_dummy_ns_0	3.7219	0.124	30.119	0.000	3.480	3.964
decay_12_cw_ged_dummy_os_0	0.8736	0.132	6.639	0.000	0.616	1.132
decay_12_cw_acled_dummy_pr_0	0.8646	0.114	7.611	0.000	0.642	1.087
q_1_1_l1_ged_dummy_sb	-0.3712	0.076	-4.874	0.000	-0.520	-0.222
q_1_1_l1_ged_dummy_ns	0.7004	0.070	9.939	0.000	0.562	0.838
q_1_1_l1_ged_dummy_os	0.2451	0.068	3.614	0.000	0.112	0.378
q_1_1_l1_acled_dummy_pr	0.0029	0.051	0.056	0.955	-0.097	0.103
ln_dist_diamsec	0.4973	0.051	9.832	0.000	0.398	0.596
ln_dist_petroleum	0.7402	0.068	10.830	0.000	0.606	0.874
agri_ih_li	0.0129	0.003	4.998	0.000	0.008	0.018
barren_ih_li	0.0004	0.002	0.163	0.870	-0.004	0.005
forest_ih_li	0.0031	0.002	1.260	0.208	-0.002	0.008
mountains_mean	-0.2351	0.100	-2.345	0.019	-0.431	-0.039
savanna_ih_li	0.0113	0.002	4.835	0.000	0.007	0.016
shrub_ih_li	0.0275	0.003	10.487	0.000	0.022	0.033
pasture_ih_li	0.0115	0.002	5.471	0.000	0.007	0.016
urban_ih_li	0.0304	0.022	1.393	0.164	-0.012	0.073
ln_bdist3	-0.0876	0.022	-3.998	0.000	-0.130	-0.045
ln_ttime	0.1448	0.054	2.706	0.007	0.040	0.250
ln_capdist	0.0878	0.039	2.235	0.025	0.011	0.165
ln_pop	0.2340	0.029	7.994	0.000	0.177	0.291
gcp_li_mer	0.1032	0.034	3.017	0.003	0.036	0.170
imr_mean	-9.864e-05	0.000	-0.889	0.374	-0.000	0.000
excluded_dummy_li	0.2940	0.056	5.254	0.000	0.184	0.404
fvp_lngdpcap_nonoilrent	-0.0344	0.064	-0.538	0.590	-0.159	0.091
fvp_lngdpcap_oilrent	0.0692	0.014	4.839	0.000	0.041	0.097
fvp_grgdpcap_oilrent	-0.2190	0.057	-3.856	0.000	-0.330	-0.108
fvp_grgdpcap_nonoilrent	-1.1712	0.183	-6.404	0.000	-1.530	-0.813
ln_fvp_timeindep	-0.4390	0.091	-4.822	0.000	-0.617	-0.261
ln_fvp_timesincepreindepwar	0.5366	0.079	6.806	0.000	0.382	0.691
ln_fvp_timesinceregimechange	-0.1366	0.032	-4.227	0.000	-0.200	-0.073
fvp_demo	-0.4904	0.097	-5.082	0.000	-0.680	-0.301
fvp_semi	-0.0757	0.085	-0.894	0.371	-0.242	0.090
fvp_prop_excluded	-0.8606	0.129	-6.680	0.000	-1.113	-0.608
ln_fvp_population200	0.2275	0.044	5.169	0.000	0.141	0.314
ssp2_edu_sec_15_24_prop	0.5844	0.212	2.758	0.006	0.169	1.000
ssp2_urban_share_iiasa	-0.0017	0.003	-0.637	0.524	-0.007	0.003
Intercept	-14.9112	0.845	-17.644	0.000	-16.568	-13.255

4.13.7 os_eval

Dep. Variable:	ged_dummy_os	**No. Observations:**	246915
Model:	Logit	**Df Residuals:**	246859
Method:	MLE	**Df Model:**	55
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.4909
Time:	06:23:54	**Log-Likelihood:**	-12551.
converged:	True	**LL-Null:**	-24652.

	coef	std err	z	P>|z|	[0.025	0.975]
l2_ged_dummy_os	0.1505	0.089	1.696	0.090	-0.023	0.324
l3_ged_dummy_os	-0.0953	0.088	-1.088	0.276	-0.267	0.076
l4_ged_dummy_os	0.0514	0.089	0.576	0.565	-0.124	0.226
l5_ged_dummy_os	0.1361	0.089	1.524	0.127	-0.039	0.311
l6_ged_dummy_os	0.0853	0.089	0.959	0.337	-0.089	0.260
l7_ged_dummy_os	0.2730	0.095	2.887	0.004	0.088	0.458
l8_ged_dummy_os	0.0286	0.095	0.302	0.763	-0.157	0.215
l9_ged_dummy_os	0.1274	0.095	1.337	0.181	-0.059	0.314
l10_ged_dummy_os	0.1131	0.095	1.188	0.235	-0.074	0.300
l11_ged_dummy_os	0.2227	0.095	2.351	0.019	0.037	0.408
l12_ged_dummy_os	-0.1336	0.100	-1.331	0.183	-0.330	0.063
q_1_1_l2_ged_dummy_os	0.1934	0.041	4.762	0.000	0.114	0.273
q_1_1_l3_ged_dummy_os	0.1731	0.040	4.301	0.000	0.094	0.252
l1_ged_dummy_sb	0.0635	0.096	0.661	0.509	-0.125	0.252
l1_ged_dummy_ns	-0.0203	0.208	-0.098	0.922	-0.428	0.387
l1_ged_dummy_os	0.0104	0.089	0.117	0.907	-0.164	0.185
l1_acled_dummy_pr	-0.1196	0.122	-0.978	0.328	-0.359	0.120
decay_12_cw_ged_dummy_sb_0	1.8551	0.079	23.469	0.000	1.700	2.010
decay_12_cw_ged_dummy_ns_0	1.1613	0.118	9.850	0.000	0.930	1.392
decay_12_cw_ged_dummy_os_0	2.8738	0.089	32.291	0.000	2.699	3.048
decay_12_cw_acled_dummy_pr_0	0.9339	0.090	10.386	0.000	0.758	1.110
q_1_1_l1_ged_dummy_sb	0.1652	0.037	4.496	0.000	0.093	0.237
q_1_1_l1_ged_dummy_ns	0.4777	0.085	5.608	0.000	0.311	0.645
q_1_1_l1_ged_dummy_os	0.5031	0.040	12.620	0.000	0.425	0.581
q_1_1_l1_acled_dummy_pr	-0.0930	0.050	-1.859	0.063	-0.191	0.005
ln_dist_diamsec	-0.1166	0.032	-3.618	0.000	-0.180	-0.053
ln_dist_petroleum	0.3813	0.042	9.081	0.000	0.299	0.464
agri_ih_li	0.0076	0.002	4.199	0.000	0.004	0.011
barren_ih_li	-0.0085	0.002	-4.792	0.000	-0.012	-0.005
forest_ih_li	0.0034	0.001	2.445	0.014	0.001	0.006
mountains_mean	-0.1966	0.076	-2.584	0.010	-0.346	-0.047
savanna_ih_li	0.0118	0.001	8.827	0.000	0.009	0.014
shrub_ih_li	0.0060	0.002	2.442	0.015	0.001	0.011
pasture_ih_li	-0.0031	0.001	-2.352	0.019	-0.006	-0.001
urban_ih_li	0.0469	0.018	2.609	0.009	0.012	0.082
ln_bdist3	-0.0991	0.017	-5.962	0.000	-0.132	-0.067
ln_ttime	-0.2428	0.042	-5.786	0.000	-0.325	-0.161
ln_capdist	0.1301	0.029	4.486	0.000	0.073	0.187
ln_pop	0.1889	0.024	8.022	0.000	0.143	0.235
gcp_li_mer	0.1583	0.025	6.445	0.000	0.110	0.206
imr_mean	0.0002	7.99e-05	2.248	0.025	2.3e-05	0.000
excluded_dummy_li	0.1217	0.044	2.768	0.006	0.036	0.208
fvp_lngdpcap_nonoilrent	-0.4153	0.049	-8.532	0.000	-0.511	-0.320
fvp_lngdpcap_oilrent	0.1180	0.011	10.704	0.000	0.096	0.140
fvp_grgdpcap_oilrent	-0.1894	0.044	-4.270	0.000	-0.276	-0.102
fvp_grgdpcap_nonoilrent	-0.5572	0.135	-4.140	0.000	-0.821	-0.293
ln_fvp_timeindep	-0.0233	0.069	-0.340	0.734	-0.158	0.111
ln_fvp_timesincepreindepwar	0.1120	0.055	2.022	0.043	0.003	0.221
ln_fvp_timesinceregimechange	-0.1105	0.026	-4.225	0.000	-0.162	-0.059
fvp_demo	-1.1221	0.078	-14.393	0.000	-1.275	-0.969
fvp_semi	-0.4219	0.063	-6.726	0.000	-0.545	-0.299
fvp_prop_excluded	0.2033	0.079	2.578	0.010	0.049	0.358
ln_fvp_population200	0.0200	0.033	0.609	0.543	-0.044	0.084
ssp2_edu_sec_15_24_prop	0.4015	0.176	2.275	0.023	0.056	0.747
ssp2_urban_share_iiasa	0.0011	0.002	0.585	0.558	-0.003	0.005
Intercept	-4.1499	0.617	-6.729	0.000	-5.359	-2.941

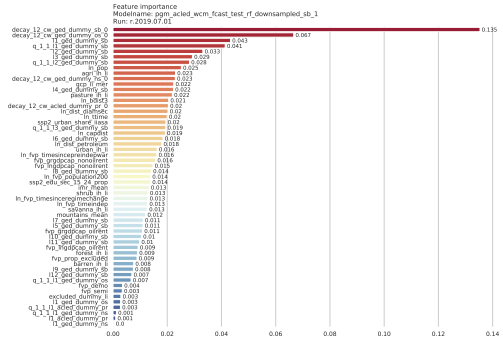
4.13.8 pr_eval

Dep. Variable:	acled_dummy_pr	**No. Observations:**	255567
Model:	Logit	**Df Residuals:**	255511
Method:	MLE	**Df Model:**	55
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.5448
Time:	06:25:21	**Log-Likelihood:**	-25562.
converged:	True	**LL-Null:**	-56152.

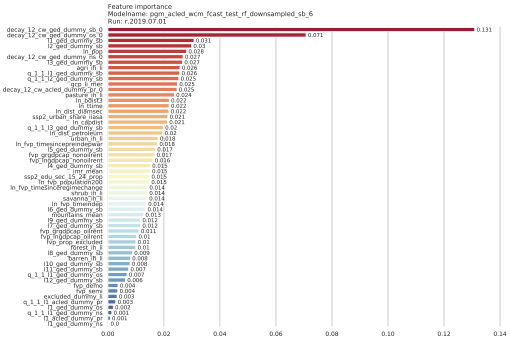
	coef	std err	z	P>|z|	[0.025	0.975]
l2_acled_dummy_pr	0.1106	0.051	2.155	0.031	0.010	0.211
l3_acled_dummy_pr	0.1023	0.051	1.999	0.046	0.002	0.203
l4_acled_dummy_pr	0.1440	0.052	2.786	0.005	0.043	0.245
l5_acled_dummy_pr	0.1446	0.052	2.790	0.005	0.043	0.246
l6_acled_dummy_pr	0.2235	0.052	4.268	0.000	0.121	0.326
l7_acled_dummy_pr	0.3397	0.053	6.448	0.000	0.236	0.443
l8_acled_dummy_pr	0.2778	0.054	5.184	0.000	0.173	0.383
l9_acled_dummy_pr	0.2925	0.054	5.371	0.000	0.186	0.399
l10_acled_dummy_pr	0.4107	0.055	7.495	0.000	0.303	0.518
l11_acled_dummy_pr	0.3669	0.055	6.667	0.000	0.259	0.475
l12_acled_dummy_pr	0.3008	0.056	5.375	0.000	0.191	0.411
q_1_1_l2_acled_dummy_pr	0.1403	0.027	5.210	0.000	0.088	0.193
q_1_1_l3_acled_dummy_pr	0.0409	0.026	1.558	0.119	-0.011	0.092
l1_ged_dummy_sb	-0.1873	0.122	-1.529	0.126	-0.427	0.053
l1_ged_dummy_ns	-0.0942	0.195	-0.483	0.629	-0.476	0.288
l1_ged_dummy_os	-0.0224	0.145	-0.155	0.877	-0.306	0.261
l1_acled_dummy_pr	-0.0888	0.051	-1.738	0.082	-0.189	0.011
decay_12_cw_ged_dummy_sb_0	0.7820	0.083	9.394	0.000	0.619	0.945
decay_12_cw_ged_dummy_ns_0	0.8463	0.102	8.297	0.000	0.646	1.046
decay_12_cw_ged_dummy_os_0	0.3896	0.091	4.280	0.000	0.211	0.568
decay_12_cw_acled_dummy_pr_0	3.0855	0.052	58.935	0.000	2.983	3.188
q_1_1_l1_ged_dummy_sb	-0.1700	0.046	-3.703	0.000	-0.260	-0.080
q_1_1_l1_ged_dummy_ns	-0.0313	0.076	-0.410	0.682	-0.181	0.119
q_1_1_l1_ged_dummy_os	0.0075	0.053	0.144	0.886	-0.095	0.111
q_1_1_l1_acled_dummy_pr	0.1601	0.026	6.254	0.000	0.110	0.210
ln_dist_diamsec	0.1567	0.020	7.851	0.000	0.118	0.196
ln_dist_petroleum	0.1298	0.026	5.035	0.000	0.079	0.180
agri_ih_li	0.0012	0.001	1.144	0.252	-0.001	0.003
barren_ih_li	0.0022	0.001	2.335	0.020	0.000	0.004
forest_ih_li	0.0019	0.001	1.734	0.083	-0.000	0.004
mountains_mean	0.0601	0.047	1.284	0.199	-0.032	0.152
savanna_ih_li	0.0007	0.001	0.696	0.487	-0.001	0.003
shrub_ih_li	0.0053	0.001	3.769	0.000	0.003	0.008
pasture_ih_li	0.0043	0.001	5.003	0.000	0.003	0.006
urban_ih_li	0.0903	0.010	8.931	0.000	0.070	0.110
ln_bdist3	-0.1025	0.011	-9.280	0.000	-0.124	-0.081
ln_ttime	-0.5318	0.025	-21.067	0.000	-0.581	-0.482
ln_capdist	-0.0378	0.016	-2.320	0.020	-0.070	-0.006
ln_pop	0.3353	0.013	24.987	0.000	0.309	0.362
gcp_li_mer	-0.1073	0.016	-6.911	0.000	-0.138	-0.077
imr_mean	0.0003	5.51e-05	5.882	0.000	0.000	0.000
excluded_dummy_li	0.0292	0.031	0.959	0.338	-0.031	0.089
fvp_lngdpcap_nonoilrent	-0.1139	0.031	-3.706	0.000	-0.174	-0.054
fvp_lngdpcap_oilrent	-0.0248	0.006	-3.849	0.000	-0.037	-0.012
fvp_grgdpcap_oilrent	-0.3588	0.030	-11.956	0.000	-0.418	-0.300
fvp_grgdpcap_nonoilrent	-0.3099	0.116	-2.677	0.007	-0.537	-0.083
ln_fvp_timeindep	0.4085	0.043	9.548	0.000	0.325	0.492
ln_fvp_timesincepreindepwar	-0.1376	0.038	-3.651	0.000	-0.212	-0.064
ln_fvp_timesinceregimechange	0.0786	0.017	4.619	0.000	0.045	0.112
fvp_demo	0.1058	0.052	2.051	0.040	0.005	0.207
fvp_semi	-0.1930	0.045	-4.330	0.000	-0.280	-0.106
fvp_prop_excluded	0.5232	0.069	7.544	0.000	0.387	0.659
ln_fvp_population200	-0.1478	0.017	-8.579	0.000	-0.182	-0.114
ssp2_edu_sec_15_24_prop	2.2070	0.101	21.951	0.000	2.010	2.404
ssp2_urban_share_iiasa	-0.0037	0.001	-2.791	0.005	-0.006	-0.001
Intercept	-4.5155	0.375	-12.030	0.000	-5.251	-3.780

4.14 osa_pgm_acled_wcm_rf

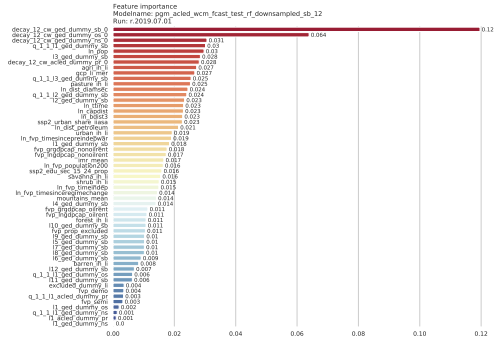
4.14.1 sb_fcast



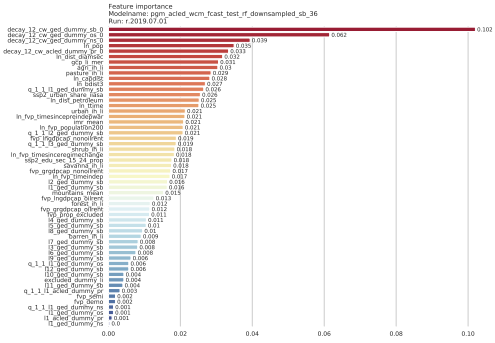
(a) 1 month



(b) 6 months

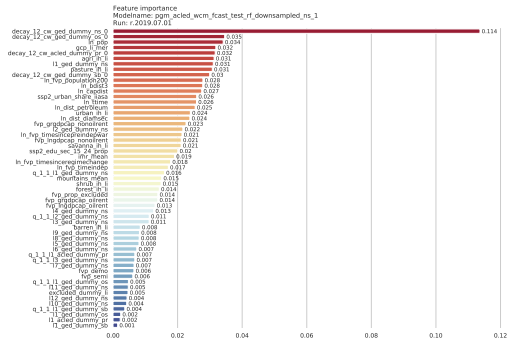


(c) 12 months

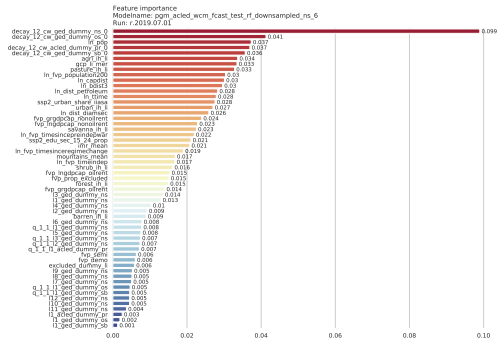


(d) 36 months

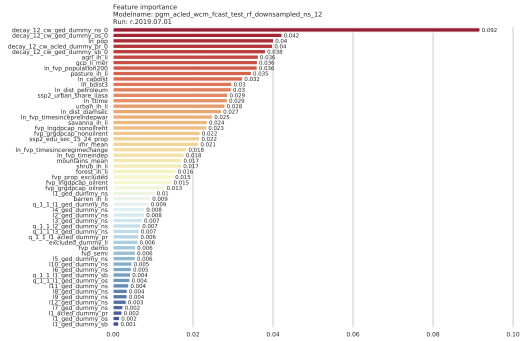
4.14.2 ns_fcast



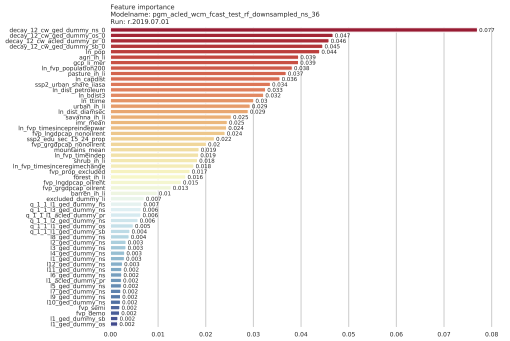
(a) 1 month



(b) 6 months

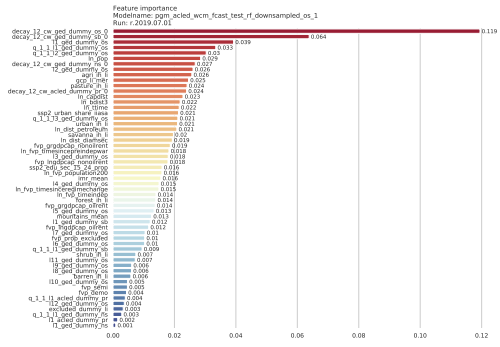


(c) 12 months

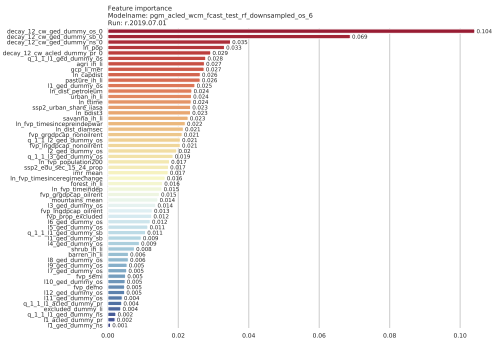


(d) 36 months

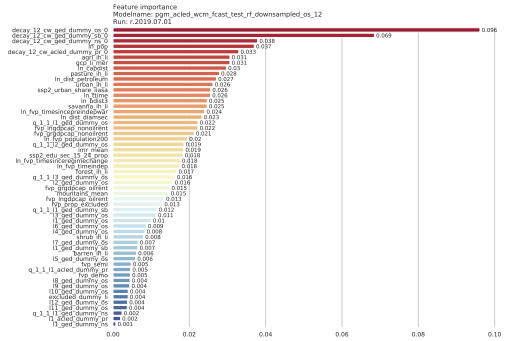
4.14.3 os_fcast



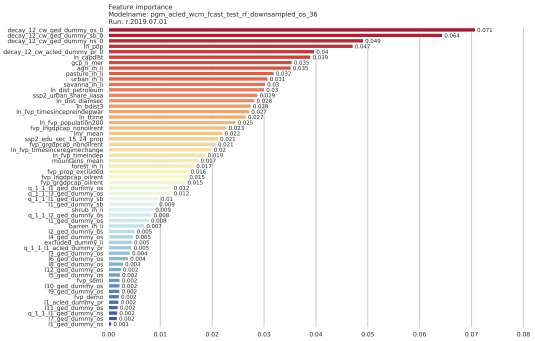
(a) 1 month



(b) 6 months

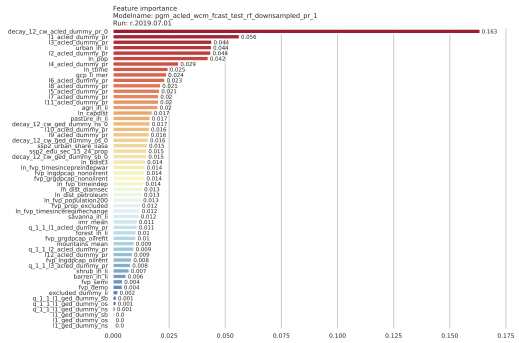


(c) 12 months

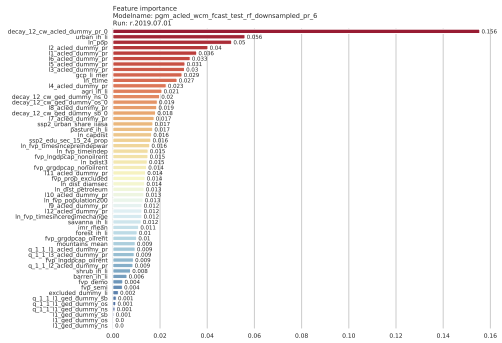


(d) 36 months

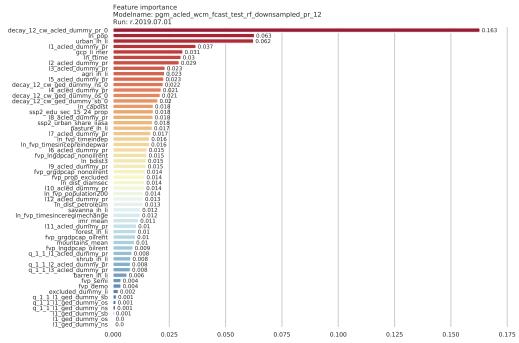
4.14.4 pr_fcast



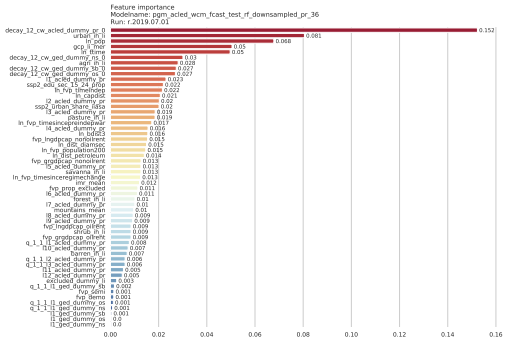
(a) 1 month



(b) 6 months

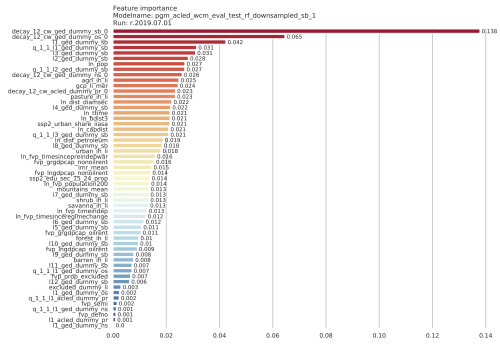


(c) 12 months

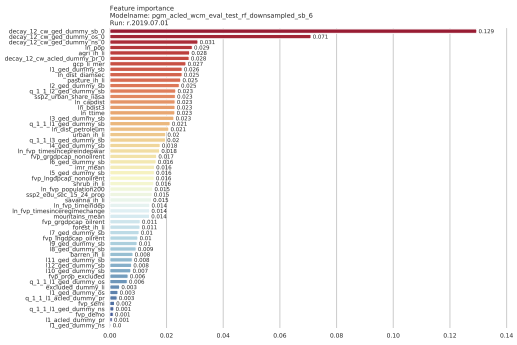


(d) 36 months

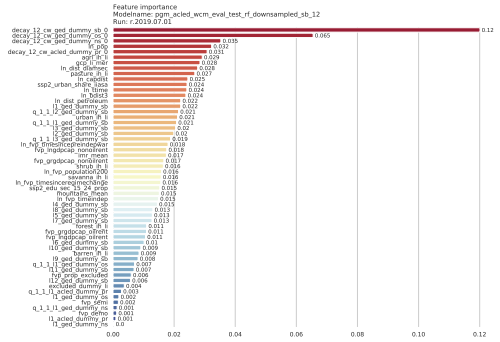
4.14.5 sb_eval



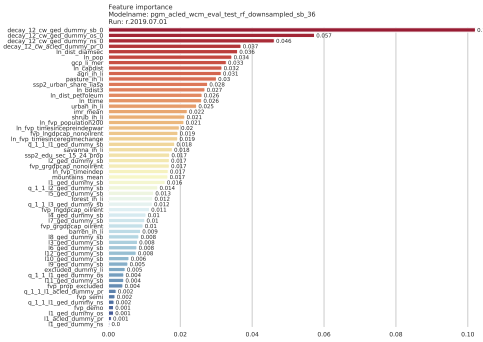
(a) 1 month



(b) 6 months

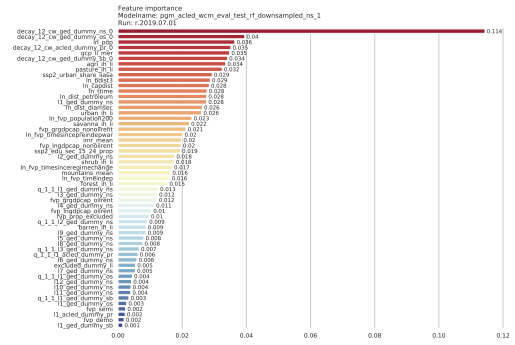


(c) 12 months

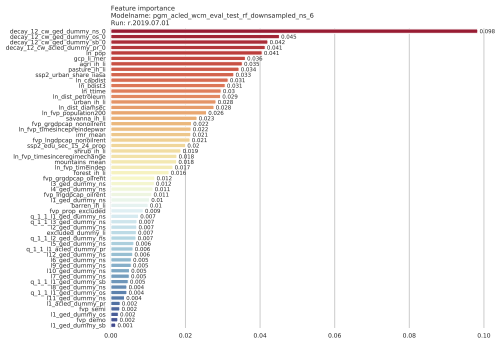


(d) 36 months

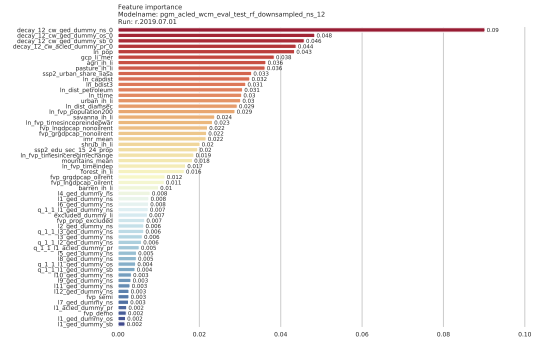
4.14.6 ns_eval



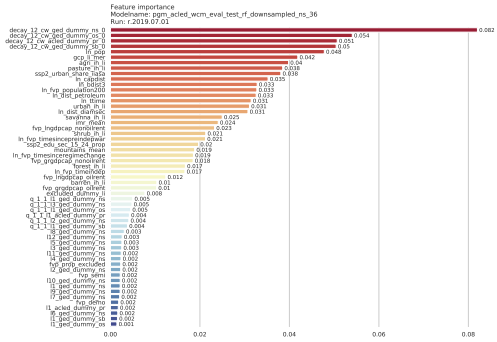
(a) 1 month



(b) 6 months

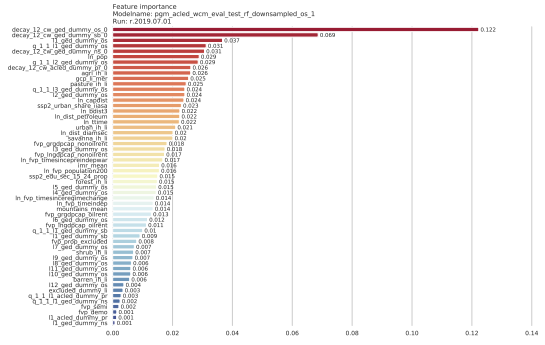


(c) 12 months

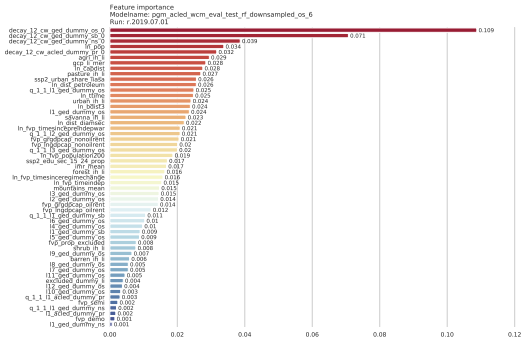


(d) 36 months

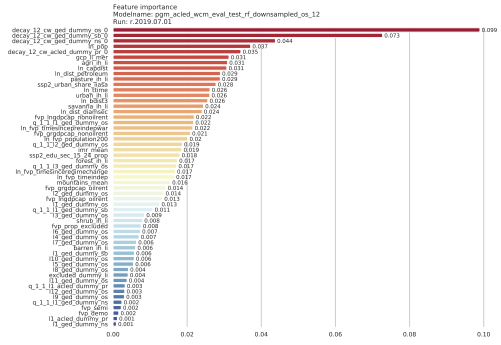
4.14.7 os_eval



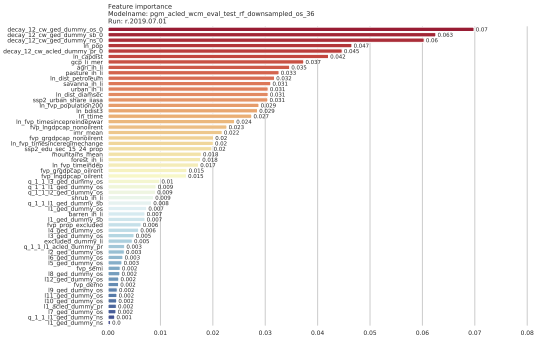
(a) 1 month



(b) 6 months

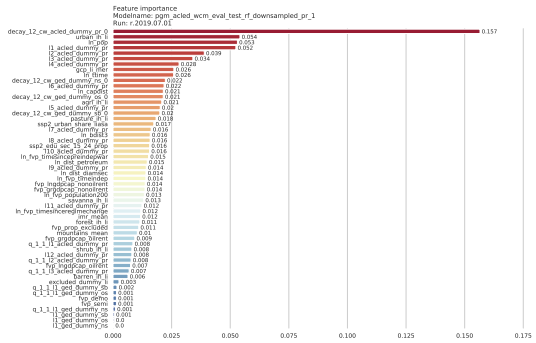


(c) 12 months

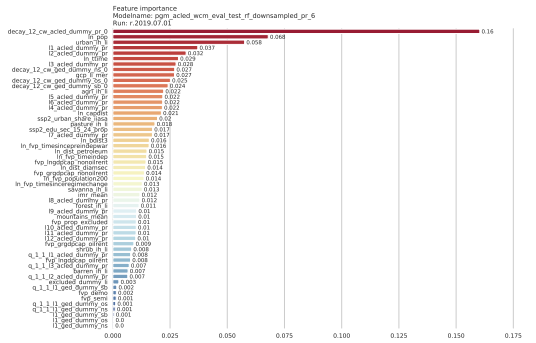


(d) 36 months

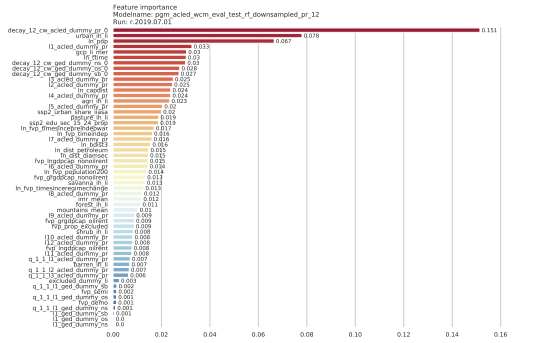
4.14.8 pr_eval



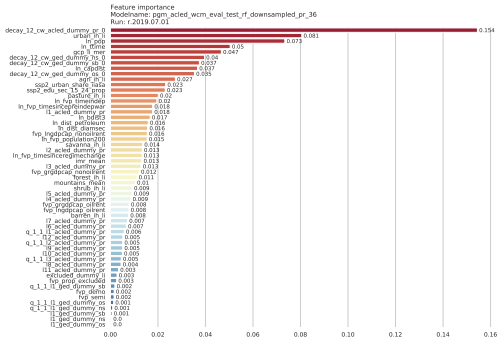
(a) 1 month



(b) 6 months



(c) 12 months



(d) 36 months

4.15 osa_pgm_acled_nocm_logit

4.15.1 sb_fcast

Dep. Variable:	ged_dummy_sb	**No. Observations:**	295446
Model:	Logit	**Df Residuals:**	295403
Method:	MLE	**Df Model:**	42
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.5143
Time:	05:46:04	**Log-Likelihood:**	-21764.
converged:	True	**LL-Null:**	-44811.

	coef	std err	z	P>|z|	[0.025	0.975]
l2_ged_dummy_sb	-0.1087	0.059	-1.843	0.065	-0.224	0.007
l3_ged_dummy_sb	-0.0410	0.059	-0.694	0.488	-0.157	0.075
l4_ged_dummy_sb	0.0014	0.059	0.025	0.980	-0.114	0.117
l5_ged_dummy_sb	-0.1534	0.060	-2.566	0.010	-0.271	-0.036
l6_ged_dummy_sb	0.1655	0.060	2.737	0.006	0.047	0.284
l7_ged_dummy_sb	0.1018	0.060	1.685	0.092	-0.017	0.220
l8_ged_dummy_sb	0.3568	0.062	5.781	0.000	0.236	0.478
l9_ged_dummy_sb	0.0652	0.062	1.046	0.296	-0.057	0.187
l10_ged_dummy_sb	0.2373	0.063	3.769	0.000	0.114	0.361
l11_ged_dummy_sb	0.2651	0.063	4.198	0.000	0.141	0.389
l12_ged_dummy_sb	0.0772	0.063	1.224	0.221	-0.046	0.201
q_1_1_l2_ged_dummy_sb	0.2538	0.028	9.032	0.000	0.199	0.309
q_1_1_l3_ged_dummy_sb	0.1622	0.028	5.839	0.000	0.108	0.217
l1_ged_dummy_sb	-0.1620	0.059	-2.741	0.006	-0.278	-0.046
l1_ged_dummy_ns	-0.4014	0.205	-1.955	0.051	-0.804	0.001
l1_ged_dummy_os	-0.1015	0.092	-1.098	0.272	-0.283	0.080
l1_acled_dummy_pr	0.1049	0.095	1.101	0.271	-0.082	0.292
decay_12_cw_ged_dummy_sb_0	3.9414	0.060	66.179	0.000	3.825	4.058
decay_12_cw_ged_dummy_ns_0	0.5151	0.105	4.887	0.000	0.309	0.722
decay_12_cw_ged_dummy_os_0	1.4851	0.067	22.254	0.000	1.354	1.616
decay_12_cw_acled_dummy_pr_0	0.5353	0.068	7.821	0.000	0.401	0.670
q_1_1_l1_ged_dummy_sb	0.4347	0.028	15.507	0.000	0.380	0.490
q_1_1_l1_ged_dummy_ns	0.0062	0.081	0.077	0.938	-0.152	0.164
q_1_1_l1_ged_dummy_os	0.1496	0.034	4.390	0.000	0.083	0.216
q_1_1_l1_acled_dummy_pr	-0.1043	0.033	-3.131	0.002	-0.170	-0.039
ln_dist_diamsec	0.3180	0.022	14.185	0.000	0.274	0.362
ln_dist_petroleum	-0.1663	0.022	-7.544	0.000	-0.209	-0.123
agri_ih_li	-0.0044	0.001	-3.328	0.001	-0.007	-0.002
barren_ih_li	-0.0059	0.001	-5.387	0.000	-0.008	-0.004
forest_ih_li	-0.0020	0.001	-1.792	0.073	-0.004	0.000
mountains_mean	-0.1334	0.052	-2.569	0.010	-0.235	-0.032
savanna_ih_li	-0.0042	0.001	-3.739	0.000	-0.006	-0.002
shrub_ih_li	0.0090	0.001	7.025	0.000	0.006	0.011
pasture_ih_li	0.0036	0.001	3.921	0.000	0.002	0.005
urban_ih_li	0.0337	0.014	2.363	0.018	0.006	0.062
ln_bdist3	-0.0782	0.012	-6.708	0.000	-0.101	-0.055
ln_ttime	-0.1414	0.029	-4.879	0.000	-0.198	-0.085
ln_capdist	0.1229	0.019	6.402	0.000	0.085	0.161
ln_pop	0.1877	0.015	12.816	0.000	0.159	0.216
gcp_li_mer	0.0268	0.020	1.326	0.185	-0.013	0.067
imr_mean	0.0006	4.49e-05	12.491	0.000	0.000	0.001
excluded_dummy_li	0.2924	0.030	9.904	0.000	0.234	0.350
Intercept	-7.0150	0.302	-23.196	0.000	-7.608	-6.422

4.15.2 ns_fcast

Dep. Variable:	ged_dummy_ns	**No. Observations:**	289211
Model:	Logit	**Df Residuals:**	289168
Method:	MLE	**Df Model:**	42
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.3861
Time:	05:45:51	**Log-Likelihood:**	-11373.
converged:	True	**LL-Null:**	-18527.

	coef	std err	z	P>|z|	[0.025	0.975]
l2_ged_dummy_ns	-0.1766	0.103	-1.720	0.085	-0.378	0.025
l3_ged_dummy_ns	-0.1029	0.106	-0.974	0.330	-0.310	0.104
l4_ged_dummy_ns	0.2487	0.107	2.330	0.020	0.040	0.458
l5_ged_dummy_ns	0.1551	0.107	1.453	0.146	-0.054	0.364
l6_ged_dummy_ns	0.0972	0.111	0.878	0.380	-0.120	0.314
l7_ged_dummy_ns	0.1091	0.113	0.964	0.335	-0.113	0.331
l8_ged_dummy_ns	0.1996	0.111	1.800	0.072	-0.018	0.417
l9_ged_dummy_ns	0.3521	0.113	3.111	0.002	0.130	0.574
l10_ged_dummy_ns	0.2198	0.119	1.841	0.066	-0.014	0.454
l11_ged_dummy_ns	0.1720	0.119	1.446	0.148	-0.061	0.405
l12_ged_dummy_ns	0.4715	0.121	3.893	0.000	0.234	0.709
q_1_1_l2_ged_dummy_ns	0.5060	0.061	8.258	0.000	0.386	0.626
q_1_1_l3_ged_dummy_ns	0.1982	0.062	3.190	0.001	0.076	0.320
l1_ged_dummy_sb	-0.0233	0.148	-0.157	0.875	-0.314	0.267
l1_ged_dummy_ns	0.1080	0.105	1.030	0.303	-0.097	0.313
l1_ged_dummy_os	0.0079	0.142	0.055	0.956	-0.270	0.286
l1_acled_dummy_pr	-0.2068	0.108	-1.908	0.056	-0.419	0.006
decay_12_cw_ged_dummy_sb_0	0.8982	0.109	8.227	0.000	0.684	1.112
decay_12_cw_ged_dummy_ns_0	4.0860	0.100	41.020	0.000	3.891	4.281
decay_12_cw_ged_dummy_os_0	1.1428	0.108	10.617	0.000	0.932	1.354
decay_12_cw_acled_dummy_pr_0	1.0004	0.086	11.667	0.000	0.832	1.168
q_1_1_l1_ged_dummy_sb	-0.2847	0.055	-5.218	0.000	-0.392	-0.178
q_1_1_l1_ged_dummy_ns	0.7087	0.057	12.354	0.000	0.596	0.821
q_1_1_l1_ged_dummy_os	0.1370	0.053	2.577	0.010	0.033	0.241
q_1_1_l1_acled_dummy_pr	0.1110	0.035	3.193	0.001	0.043	0.179
ln_dist_diamsec	0.3656	0.035	10.401	0.000	0.297	0.434
ln_dist_petroleum	0.3609	0.043	8.482	0.000	0.277	0.444
agri_ih_li	0.0123	0.002	6.309	0.000	0.008	0.016
barren_ih_li	-0.0035	0.002	-1.929	0.054	-0.007	5.53e-05
forest_ih_li	-0.0004	0.002	-0.202	0.840	-0.004	0.003
mountains_mean	-0.4785	0.081	-5.884	0.000	-0.638	-0.319
savanna_ih_li	0.0055	0.002	3.139	0.002	0.002	0.009
shrub_ih_li	0.0173	0.002	8.487	0.000	0.013	0.021
pasture_ih_li	0.0073	0.002	4.640	0.000	0.004	0.010
urban_ih_li	0.0321	0.019	1.680	0.093	-0.005	0.070
ln_bdist3	-0.0247	0.017	-1.434	0.152	-0.058	0.009
ln_ttime	0.1560	0.043	3.589	0.000	0.071	0.241
ln_capdist	0.2726	0.029	9.390	0.000	0.216	0.329
ln_pop	0.2600	0.022	11.755	0.000	0.217	0.303
gcp_li_mer	-0.0022	0.029	-0.074	0.941	-0.059	0.055
imr_mean	-0.0003	6.97e-05	-3.751	0.000	-0.000	-0.000
excluded_dummy_li	0.1610	0.044	3.679	0.000	0.075	0.247
Intercept	-12.3579	0.472	-26.163	0.000	-13.284	-11.432

4.15.3 os_fcast

Dep. Variable:	ged_dummy_os	**No. Observations:**	292193
Model:	Logit	**Df Residuals:**	292150
Method:	MLE	**Df Model:**	42
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.4805
Time:	05:46:36	**Log-Likelihood:**	-16622.
converged:	True	**LL-Null:**	-32000.

	coef	std err	z	P>|z|	[0.025	0.975]
l2_ged_dummy_os	0.0585	0.076	0.774	0.439	-0.090	0.207
l3_ged_dummy_os	0.0584	0.076	0.768	0.442	-0.091	0.207
l4_ged_dummy_os	0.0301	0.076	0.395	0.693	-0.119	0.179
l5_ged_dummy_os	0.1194	0.076	1.576	0.115	-0.029	0.268
l6_ged_dummy_os	-0.0187	0.077	-0.245	0.807	-0.169	0.131
l7_ged_dummy_os	0.1269	0.080	1.594	0.111	-0.029	0.283
l8_ged_dummy_os	-0.0612	0.080	-0.770	0.441	-0.217	0.095
l9_ged_dummy_os	0.0593	0.081	0.729	0.466	-0.100	0.219
l10_ged_dummy_os	0.0566	0.081	0.701	0.484	-0.102	0.215
l11_ged_dummy_os	0.0840	0.082	1.029	0.303	-0.076	0.244
l12_ged_dummy_os	-0.1827	0.084	-2.181	0.029	-0.347	-0.019
q_1_1_l2_ged_dummy_os	0.2673	0.035	7.628	0.000	0.199	0.336
q_1_1_l3_ged_dummy_os	0.1372	0.034	4.022	0.000	0.070	0.204
l1_ged_dummy_sb	0.0647	0.083	0.779	0.436	-0.098	0.228
l1_ged_dummy_ns	0.1993	0.174	1.143	0.253	-0.142	0.541
l1_ged_dummy_os	-0.0809	0.076	-1.067	0.286	-0.229	0.068
l1_acled_dummy_pr	-0.0523	0.090	-0.581	0.562	-0.229	0.124
decay_12_cw_ged_dummy_sb_0	1.8943	0.070	27.234	0.000	1.758	2.031
decay_12_cw_ged_dummy_ns_0	0.8385	0.099	8.451	0.000	0.644	1.033
decay_12_cw_ged_dummy_os_0	3.2114	0.076	42.169	0.000	3.062	3.361
decay_12_cw_acled_dummy_pr_0	1.0914	0.071	15.431	0.000	0.953	1.230
q_1_1_l1_ged_dummy_sb	0.1373	0.031	4.468	0.000	0.077	0.198
q_1_1_l1_ged_dummy_ns	0.2791	0.066	4.240	0.000	0.150	0.408
q_1_1_l1_ged_dummy_os	0.4665	0.035	13.489	0.000	0.399	0.534
q_1_1_l1_acled_dummy_pr	0.0135	0.031	0.428	0.669	-0.048	0.075
ln_dist_diamsec	-0.0354	0.025	-1.411	0.158	-0.085	0.014
ln_dist_petroleum	0.2219	0.030	7.426	0.000	0.163	0.280
agri_ih_li	0.0009	0.001	0.628	0.530	-0.002	0.004
barren_ih_li	-0.0090	0.001	-6.067	0.000	-0.012	-0.006
forest_ih_li	0.0015	0.001	1.260	0.208	-0.001	0.004
mountains_mean	-0.2156	0.063	-3.437	0.001	-0.339	-0.093
savanna_ih_li	0.0088	0.001	7.947	0.000	0.007	0.011
shrub_ih_li	-0.0015	0.002	-0.740	0.459	-0.005	0.002
pasture_ih_li	-0.0013	0.001	-1.199	0.230	-0.003	0.001
urban_ih_li	0.0345	0.015	2.328	0.020	0.005	0.064
ln_bdist3	-0.0545	0.013	-4.054	0.000	-0.081	-0.028
ln_ttime	-0.1630	0.036	-4.573	0.000	-0.233	-0.093
ln_capdist	0.1694	0.019	8.697	0.000	0.131	0.208
ln_pop	0.2116	0.019	11.356	0.000	0.175	0.248
gcp_li_mer	0.0479	0.020	2.338	0.019	0.008	0.088
imr_mean	0.0005	5.71e-05	8.626	0.000	0.000	0.001
excluded_dummy_li	0.3728	0.035	10.750	0.000	0.305	0.441
Intercept	-8.1206	0.375	-21.632	0.000	-8.856	-7.385

4.15.4 pr_fcast

Dep. Variable:	acled_dummy_pr	**No. Observations:**	308410
Model:	Logit	**Df Residuals:**	308367
Method:	MLE	**Df Model:**	42
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.5578
Time:	05:46:15	**Log-Likelihood:**	-38095.
converged:	True	**LL-Null:**	-86142.

	coef	std err	z	P>|z|	[0.025	0.975]
l2_acled_dummy_pr	0.0485	0.039	1.240	0.215	-0.028	0.125
l3_acled_dummy_pr	0.1012	0.039	2.593	0.010	0.025	0.178
l4_acled_dummy_pr	0.0746	0.039	1.905	0.057	-0.002	0.151
l5_acled_dummy_pr	0.1164	0.039	2.988	0.003	0.040	0.193
l6_acled_dummy_pr	0.2098	0.040	5.303	0.000	0.132	0.287
l7_acled_dummy_pr	0.3079	0.040	7.719	0.000	0.230	0.386
l8_acled_dummy_pr	0.2272	0.040	5.645	0.000	0.148	0.306
l9_acled_dummy_pr	0.2496	0.040	6.175	0.000	0.170	0.329
l10_acled_dummy_pr	0.3843	0.041	9.420	0.000	0.304	0.464
l11_acled_dummy_pr	0.4393	0.041	10.799	0.000	0.360	0.519
l12_acled_dummy_pr	0.3366	0.041	8.217	0.000	0.256	0.417
q_1_1_l2_acled_dummy_pr	0.1250	0.019	6.654	0.000	0.088	0.162
q_1_1_l3_acled_dummy_pr	0.0518	0.018	2.836	0.005	0.016	0.088
l1_ged_dummy_sb	-0.2466	0.100	-2.474	0.013	-0.442	-0.051
l1_ged_dummy_ns	-0.1984	0.153	-1.298	0.194	-0.498	0.101
l1_ged_dummy_os	0.0056	0.113	0.050	0.960	-0.216	0.227
l1_acled_dummy_pr	-0.0760	0.039	-1.945	0.052	-0.152	0.001
decay_12_cw_ged_dummy_sb_0	0.7009	0.068	10.270	0.000	0.567	0.835
decay_12_cw_ged_dummy_ns_0	0.6681	0.083	8.015	0.000	0.505	0.831
decay_12_cw_ged_dummy_os_0	0.3454	0.073	4.762	0.000	0.203	0.488
decay_12_cw_acled_dummy_pr_0	3.3989	0.041	83.153	0.000	3.319	3.479
q_1_1_l1_ged_dummy_sb	-0.1355	0.036	-3.760	0.000	-0.206	-0.065
q_1_1_l1_ged_dummy_ns	0.0113	0.057	0.198	0.843	-0.101	0.123
q_1_1_l1_ged_dummy_os	-0.0952	0.041	-2.297	0.022	-0.176	-0.014
q_1_1_l1_acled_dummy_pr	0.2529	0.018	14.112	0.000	0.218	0.288
ln_dist_diamsec	-0.0058	0.014	-0.399	0.690	-0.034	0.023
ln_dist_petroleum	0.0236	0.017	1.410	0.159	-0.009	0.056
agri_ih_li	0.0031	0.001	3.743	0.000	0.001	0.005
barren_ih_li	0.0043	0.001	5.680	0.000	0.003	0.006
forest_ih_li	0.0027	0.001	3.211	0.001	0.001	0.004
mountains_mean	0.2243	0.036	6.303	0.000	0.155	0.294
savanna_ih_li	0.0034	0.001	4.286	0.000	0.002	0.005
shrub_ih_li	0.0117	0.001	10.788	0.000	0.010	0.014
pasture_ih_li	0.0053	0.001	7.725	0.000	0.004	0.007
urban_ih_li	0.0920	0.009	10.635	0.000	0.075	0.109
ln_bdist3	-0.0893	0.008	-10.894	0.000	-0.105	-0.073
ln_ttime	-0.4920	0.020	-24.660	0.000	-0.531	-0.453
ln_capdist	0.0069	0.011	0.602	0.547	-0.016	0.029
ln_pop	0.2949	0.010	29.040	0.000	0.275	0.315
gcp_li_mer	-0.1007	0.012	-8.393	0.000	-0.124	-0.077
imr_mean	-0.0003	3.36e-05	-7.885	0.000	-0.000	-0.000
excluded_dummy_li	-0.0847	0.023	-3.693	0.000	-0.130	-0.040
Intercept	-4.1038	0.203	-20.263	0.000	-4.501	-3.707

4.15.5 sb_eval

Dep. Variable:	ged_dummy_sb	**No. Observations:**	249432
Model:	Logit	**Df Residuals:**	249389
Method:	MLE	**Df Model:**	42
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.5013
Time:	05:42:23	**Log-Likelihood:**	-17392.
converged:	True	**LL-Null:**	-34876.

	coef	std err	z	P>|z|	[0.025	0.975]
l2_ged_dummy_sb	-0.0903	0.067	-1.339	0.181	-0.223	0.042
l3_ged_dummy_sb	-0.0076	0.068	-0.113	0.910	-0.140	0.125
l4_ged_dummy_sb	0.0261	0.068	0.383	0.702	-0.107	0.160
l5_ged_dummy_sb	-0.1113	0.069	-1.604	0.109	-0.247	0.025
l6_ged_dummy_sb	0.1077	0.070	1.535	0.125	-0.030	0.245
l7_ged_dummy_sb	0.1002	0.070	1.436	0.151	-0.037	0.237
l8_ged_dummy_sb	0.3237	0.070	4.607	0.000	0.186	0.461
l9_ged_dummy_sb	0.1286	0.072	1.782	0.075	-0.013	0.270
l10_ged_dummy_sb	0.2031	0.072	2.829	0.005	0.062	0.344
l11_ged_dummy_sb	0.2246	0.073	3.088	0.002	0.082	0.367
l12_ged_dummy_sb	0.2850	0.075	3.789	0.000	0.138	0.432
q_1_1_l2_ged_dummy_sb	0.2060	0.033	6.263	0.000	0.142	0.270
q_1_1_l3_ged_dummy_sb	0.1925	0.032	5.991	0.000	0.130	0.255
l1_ged_dummy_sb	-0.1832	0.068	-2.698	0.007	-0.316	-0.050
l1_ged_dummy_ns	-0.1062	0.263	-0.404	0.686	-0.621	0.409
l1_ged_dummy_os	-0.2544	0.107	-2.384	0.017	-0.464	-0.045
l1_acled_dummy_pr	0.1931	0.124	1.563	0.118	-0.049	0.435
decay_12_cw_ged_dummy_sb_0	3.9487	0.068	58.077	0.000	3.815	4.082
decay_12_cw_ged_dummy_ns_0	0.5966	0.124	4.830	0.000	0.355	0.839
decay_12_cw_ged_dummy_os_0	1.5469	0.077	20.207	0.000	1.397	1.697
decay_12_cw_acled_dummy_pr_0	0.4181	0.084	4.956	0.000	0.253	0.583
q_1_1_l1_ged_dummy_sb	0.4255	0.033	12.978	0.000	0.361	0.490
q_1_1_l1_ged_dummy_ns	0.0178	0.102	0.175	0.861	-0.182	0.217
q_1_1_l1_ged_dummy_os	0.2485	0.040	6.216	0.000	0.170	0.327
q_1_1_l1_acled_dummy_pr	-0.1491	0.049	-3.027	0.002	-0.246	-0.053
ln_dist_diamsec	0.2535	0.025	10.190	0.000	0.205	0.302
ln_dist_petroleum	-0.2010	0.024	-8.245	0.000	-0.249	-0.153
agri_ih_li	-0.0004	0.002	-0.246	0.806	-0.003	0.003
barren_ih_li	-0.0077	0.001	-6.066	0.000	-0.010	-0.005
forest_ih_li	-0.0034	0.001	-2.633	0.008	-0.006	-0.001
mountains_mean	-0.0359	0.058	-0.621	0.535	-0.149	0.077
savanna_ih_li	-0.0056	0.001	-4.379	0.000	-0.008	-0.003
shrub_ih_li	0.0102	0.001	7.068	0.000	0.007	0.013
pasture_ih_li	0.0035	0.001	3.404	0.001	0.002	0.006
urban_ih_li	0.0206	0.018	1.179	0.238	-0.014	0.055
ln_bdist3	-0.0588	0.013	-4.475	0.000	-0.085	-0.033
ln_ttime	-0.1426	0.033	-4.310	0.000	-0.207	-0.078
ln_capdist	0.1317	0.022	6.072	0.000	0.089	0.174
ln_pop	0.1709	0.017	10.254	0.000	0.138	0.204
gcp_li_mer	0.0132	0.022	0.593	0.553	-0.030	0.057
imr_mean	0.0005	5.08e-05	10.347	0.000	0.000	0.001
excluded_dummy_li	0.3164	0.034	9.420	0.000	0.251	0.382
Intercept	-6.7867	0.343	-19.798	0.000	-7.459	-6.115

4.15.6 ns_eval

Dep. Variable:	ged_dummy_ns	**No. Observations:**	244449
Model:	Logit	**Df Residuals:**	244406
Method:	MLE	**Df Model:**	42
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.3795
Time:	05:30:59	**Log-Likelihood:**	-8117.0
converged:	True	**LL-Null:**	-13082.

	coef	std err	z	P>|z|	[0.025	0.975]
l2_ged_dummy_ns	-0.0284	0.124	-0.229	0.819	-0.272	0.215
l3_ged_dummy_ns	0.0525	0.127	0.414	0.679	-0.196	0.301
l4_ged_dummy_ns	0.1035	0.127	0.817	0.414	-0.145	0.352
l5_ged_dummy_ns	0.0475	0.129	0.368	0.713	-0.206	0.300
l6_ged_dummy_ns	-0.0218	0.133	-0.163	0.870	-0.283	0.240
l7_ged_dummy_ns	0.1216	0.137	0.887	0.375	-0.147	0.390
l8_ged_dummy_ns	0.3262	0.132	2.470	0.014	0.067	0.585
l9_ged_dummy_ns	0.4089	0.135	3.033	0.002	0.145	0.673
l10_ged_dummy_ns	0.1220	0.148	0.826	0.409	-0.168	0.412
l11_ged_dummy_ns	0.3276	0.150	2.184	0.029	0.034	0.622
l12_ged_dummy_ns	0.3358	0.146	2.297	0.022	0.049	0.622
q_1_1_l2_ged_dummy_ns	0.4943	0.076	6.544	0.000	0.346	0.642
q_1_1_l3_ged_dummy_ns	0.2613	0.076	3.438	0.001	0.112	0.410
l1_ged_dummy_sb	-0.0575	0.183	-0.315	0.753	-0.416	0.301
l1_ged_dummy_ns	0.4311	0.130	3.306	0.001	0.176	0.687
l1_ged_dummy_os	0.1147	0.173	0.665	0.506	-0.224	0.453
l1_acled_dummy_pr	0.1721	0.143	1.203	0.229	-0.108	0.452
decay_12_cw_ged_dummy_sb_0	0.8257	0.132	6.237	0.000	0.566	1.085
decay_12_cw_ged_dummy_ns_0	3.8843	0.123	31.452	0.000	3.642	4.126
decay_12_cw_ged_dummy_os_0	1.1748	0.131	8.957	0.000	0.918	1.432
decay_12_cw_acled_dummy_pr_0	0.7646	0.111	6.860	0.000	0.546	0.983
q_1_1_l1_ged_dummy_sb	-0.3630	0.075	-4.821	0.000	-0.511	-0.215
q_1_1_l1_ged_dummy_ns	0.7578	0.072	10.548	0.000	0.617	0.899
q_1_1_l1_ged_dummy_os	0.2426	0.069	3.497	0.000	0.107	0.379
q_1_1_l1_acled_dummy_pr	0.0788	0.050	1.579	0.114	-0.019	0.177
ln_dist_diamsec	0.4563	0.043	10.642	0.000	0.372	0.540
ln_dist_petroleum	0.6689	0.056	11.972	0.000	0.559	0.778
agri_ih_li	0.0146	0.002	6.059	0.000	0.010	0.019
barren_ih_li	-0.0002	0.002	-0.091	0.928	-0.005	0.004
forest_ih_li	0.0030	0.002	1.285	0.199	-0.002	0.008
mountains_mean	-0.4641	0.096	-4.811	0.000	-0.653	-0.275
savanna_ih_li	0.0060	0.002	2.660	0.008	0.002	0.010
shrub_ih_li	0.0216	0.002	8.665	0.000	0.017	0.026
pasture_ih_li	0.0119	0.002	6.102	0.000	0.008	0.016
urban_ih_li	0.0650	0.021	3.148	0.002	0.025	0.105
ln_bdist3	-0.0467	0.020	-2.285	0.022	-0.087	-0.007
ln_ttime	0.2467	0.052	4.737	0.000	0.145	0.349
ln_capdist	0.2566	0.034	7.632	0.000	0.191	0.323
ln_pop	0.3361	0.028	12.183	0.000	0.282	0.390
gcp_li_mer	0.0261	0.033	0.779	0.436	-0.040	0.092
imr_mean	-0.0002	8.34e-05	-2.265	0.024	-0.000	-2.54e-05
excluded_dummy_li	0.2652	0.052	5.098	0.000	0.163	0.367
Intercept	-15.0089	0.590	-25.428	0.000	-16.166	-13.852

4.15.7 os_eval

Dep. Variable:	ged_dummy_os	**No. Observations:**	246915
Model:	Logit	**Df Residuals:**	246872
Method:	MLE	**Df Model:**	42
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.4791
Time:	05:32:01	**Log-Likelihood:**	-12841.
converged:	True	**LL-Null:**	-24652.

	coef	std err	z	P>|z|	[0.025	0.975]
l2_ged_dummy_os	-0.0679	0.088	-0.769	0.442	-0.241	0.105
l3_ged_dummy_os	0.0700	0.089	0.788	0.431	-0.104	0.244
l4_ged_dummy_os	-0.0392	0.090	-0.435	0.664	-0.216	0.137
l5_ged_dummy_os	0.0802	0.090	0.896	0.370	-0.095	0.256
l6_ged_dummy_os	0.0919	0.091	1.011	0.312	-0.086	0.270
l7_ged_dummy_os	0.0232	0.094	0.246	0.806	-0.162	0.208
l8_ged_dummy_os	0.0735	0.094	0.784	0.433	-0.110	0.257
l9_ged_dummy_os	0.1809	0.095	1.898	0.058	-0.006	0.368
l10_ged_dummy_os	0.1210	0.096	1.263	0.206	-0.067	0.309
l11_ged_dummy_os	0.1860	0.095	1.950	0.051	-0.001	0.373
l12_ged_dummy_os	-0.0965	0.102	-0.949	0.342	-0.296	0.103
q_1_1_l2_ged_dummy_os	0.2901	0.042	6.914	0.000	0.208	0.372
q_1_1_l3_ged_dummy_os	0.2267	0.041	5.550	0.000	0.147	0.307
l1_ged_dummy_sb	0.1428	0.098	1.461	0.144	-0.049	0.334
l1_ged_dummy_ns	0.1203	0.208	0.578	0.564	-0.288	0.529
l1_ged_dummy_os	0.0600	0.090	0.664	0.507	-0.117	0.237
l1_acled_dummy_pr	-0.0298	0.120	-0.248	0.804	-0.266	0.206
decay_12_cw_ged_dummy_sb_0	1.9946	0.080	24.951	0.000	1.838	2.151
decay_12_cw_ged_dummy_ns_0	1.0465	0.119	8.767	0.000	0.813	1.280
decay_12_cw_ged_dummy_os_0	3.1933	0.089	35.764	0.000	3.018	3.368
decay_12_cw_acled_dummy_pr_0	0.9531	0.088	10.851	0.000	0.781	1.125
q_1_1_l1_ged_dummy_sb	0.1775	0.038	4.659	0.000	0.103	0.252
q_1_1_l1_ged_dummy_ns	0.2300	0.089	2.582	0.010	0.055	0.405
q_1_1_l1_ged_dummy_os	0.4035	0.041	9.949	0.000	0.324	0.483
q_1_1_l1_acled_dummy_pr	-0.1373	0.050	-2.764	0.006	-0.235	-0.040
ln_dist_diamsec	-0.1405	0.029	-4.913	0.000	-0.197	-0.084
ln_dist_petroleum	0.2019	0.033	6.070	0.000	0.137	0.267
agri_ih_li	0.0047	0.002	2.705	0.007	0.001	0.008
barren_ih_li	-0.0074	0.002	-4.221	0.000	-0.011	-0.004
forest_ih_li	0.0041	0.001	3.014	0.003	0.001	0.007
mountains_mean	-0.1743	0.072	-2.411	0.016	-0.316	-0.033
savanna_ih_li	0.0094	0.001	7.334	0.000	0.007	0.012
shrub_ih_li	-0.0011	0.002	-0.463	0.644	-0.006	0.004
pasture_ih_li	7.837e-05	0.001	0.062	0.951	-0.002	0.003
urban_ih_li	0.0485	0.017	2.777	0.005	0.014	0.083
ln_bdist3	-0.0523	0.015	-3.390	0.001	-0.083	-0.022
ln_ttime	-0.1824	0.041	-4.419	0.000	-0.263	-0.102
ln_capdist	0.2389	0.023	10.556	0.000	0.195	0.283
ln_pop	0.2202	0.022	10.214	0.000	0.178	0.262
gcp_li_mer	0.0642	0.025	2.546	0.011	0.015	0.114
imr_mean	0.0004	6.53e-05	5.616	0.000	0.000	0.000
excluded_dummy_li	0.4049	0.040	10.136	0.000	0.327	0.483
Intercept	-8.4263	0.435	-19.370	0.000	-9.279	-7.574

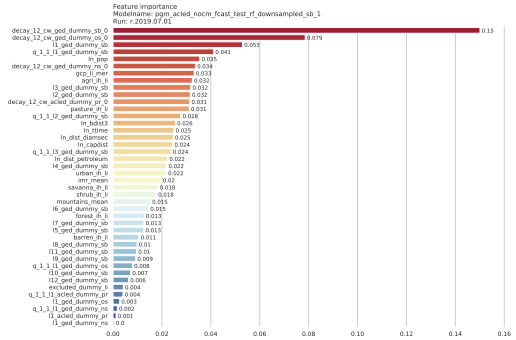
4.15.8 pr_eval

Dep. Variable:	acled_dummy_pr	**No. Observations:**	255567
Model:	Logit	**Df Residuals:**	255524
Method:	MLE	**Df Model:**	42
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.5359
Time:	05:39:42	**Log-Likelihood:**	-26061.
converged:	True	**LL-Null:**	-56152.

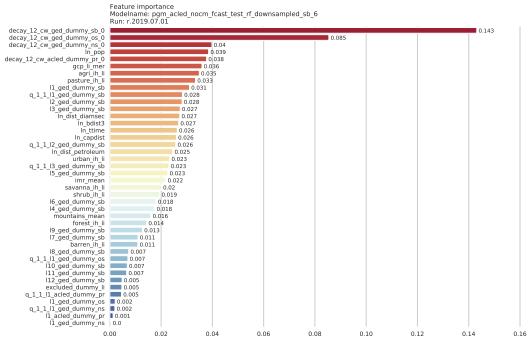
	coef	std err	z	P>|z|	[0.025	0.975]
l2_acled_dummy_pr	0.0418	0.051	0.818	0.414	-0.058	0.142
l3_acled_dummy_pr	0.1059	0.051	2.070	0.038	0.006	0.206
l4_acled_dummy_pr	0.1300	0.051	2.551	0.011	0.030	0.230
l5_acled_dummy_pr	0.1472	0.051	2.883	0.004	0.047	0.247
l6_acled_dummy_pr	0.1985	0.052	3.853	0.000	0.098	0.299
l7_acled_dummy_pr	0.3055	0.052	5.875	0.000	0.204	0.407
l8_acled_dummy_pr	0.3614	0.054	6.755	0.000	0.257	0.466
l9_acled_dummy_pr	0.3013	0.054	5.569	0.000	0.195	0.407
l10_acled_dummy_pr	0.4190	0.055	7.685	0.000	0.312	0.526
l11_acled_dummy_pr	0.4610	0.055	8.340	0.000	0.353	0.569
l12_acled_dummy_pr	0.3948	0.056	7.039	0.000	0.285	0.505
q_1_1_l2_acled_dummy_pr	0.1566	0.026	5.916	0.000	0.105	0.208
q_1_1_l3_acled_dummy_pr	0.1565	0.026	5.964	0.000	0.105	0.208
l1_ged_dummy_sb	-0.1226	0.121	-1.014	0.311	-0.360	0.114
l1_ged_dummy_ns	-0.0935	0.197	-0.473	0.636	-0.481	0.294
l1_ged_dummy_os	-0.0217	0.142	-0.153	0.878	-0.299	0.256
l1_acled_dummy_pr	-0.0492	0.051	-0.968	0.333	-0.149	0.050
decay_12_cw_ged_dummy_sb_0	0.6862	0.083	8.238	0.000	0.523	0.850
decay_12_cw_ged_dummy_ns_0	0.8279	0.102	8.081	0.000	0.627	1.029
decay_12_cw_ged_dummy_os_0	0.3145	0.091	3.474	0.001	0.137	0.492
decay_12_cw_acled_dummy_pr_0	3.2583	0.052	62.934	0.000	3.157	3.360
q_1_1_l1_ged_dummy_sb	-0.1213	0.046	-2.645	0.008	-0.211	-0.031
q_1_1_l1_ged_dummy_ns	0.0737	0.078	0.939	0.348	-0.080	0.228
q_1_1_l1_ged_dummy_os	-0.0663	0.054	-1.227	0.220	-0.172	0.040
q_1_1_l1_acled_dummy_pr	0.2127	0.025	8.427	0.000	0.163	0.262
ln_dist_diamsec	-0.0413	0.018	-2.350	0.019	-0.076	-0.007
ln_dist_petroleum	0.0695	0.021	3.346	0.001	0.029	0.110
agri_ih_li	0.0018	0.001	1.778	0.075	-0.000	0.004
barren_ih_li	0.0036	0.001	3.891	0.000	0.002	0.005
forest_ih_li	0.0015	0.001	1.451	0.147	-0.001	0.004
mountains_mean	0.2380	0.044	5.435	0.000	0.152	0.324
savanna_ih_li	0.0017	0.001	1.799	0.072	-0.000	0.004
shrub_ih_li	0.0113	0.001	8.508	0.000	0.009	0.014
pasture_ih_li	0.0049	0.001	5.816	0.000	0.003	0.007
urban_ih_li	0.1048	0.010	10.366	0.000	0.085	0.125
ln_bdist3	-0.1080	0.010	-10.700	0.000	-0.128	-0.088
ln_ttime	-0.5033	0.025	-20.259	0.000	-0.552	-0.455
ln_capdist	-0.0112	0.014	-0.829	0.407	-0.038	0.015
ln_pop	0.3183	0.013	25.415	0.000	0.294	0.343
gcp_li_mer	-0.0999	0.015	-6.584	0.000	-0.130	-0.070
imr_mean	-0.0002	4.14e-05	-6.021	0.000	-0.000	-0.000
excluded_dummy_li	-0.0922	0.028	-3.258	0.001	-0.148	-0.037
Intercept	-4.2695	0.250	-17.104	0.000	-4.759	-3.780

4.16 osa_pgm_acled_nocm_rf

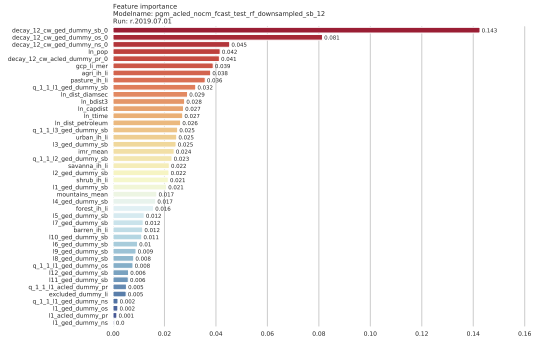
4.16.1 sb_fcast



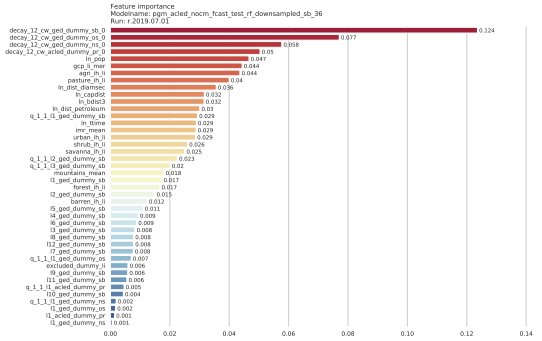
(a) 1 month



(b) 6 months

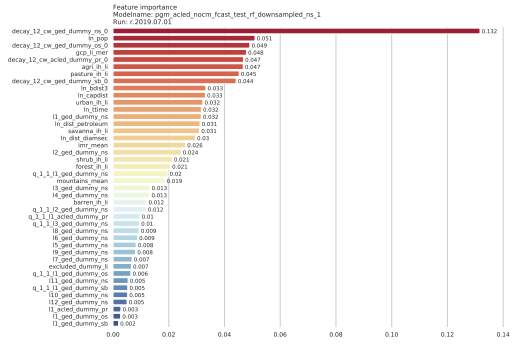


(c) 12 months

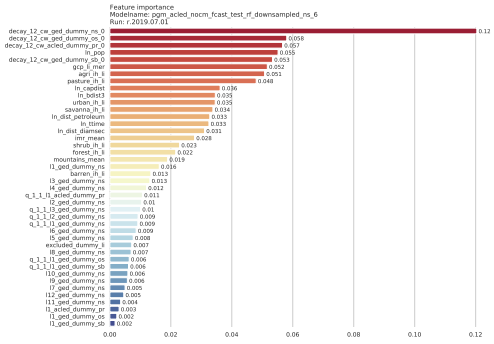


(d) 36 months

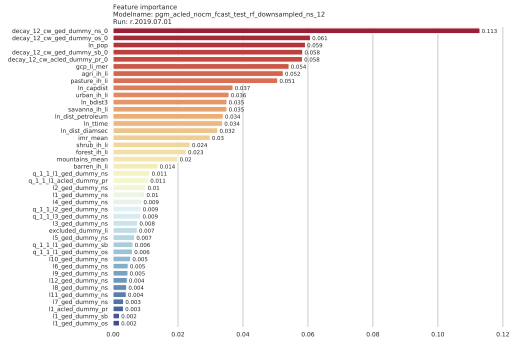
4.16.2 ns_fcast



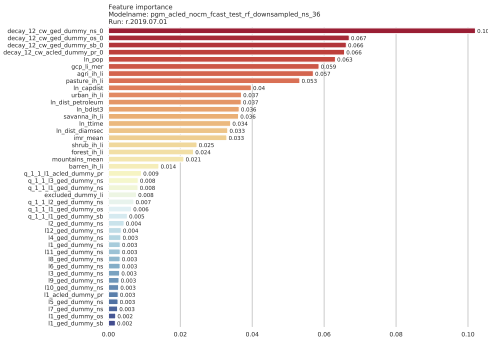
(a) 1 month



(b) 6 months

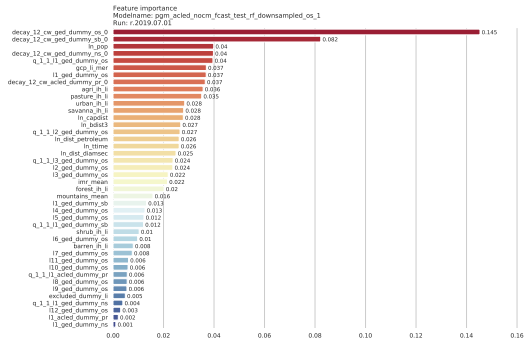


(c) 12 months

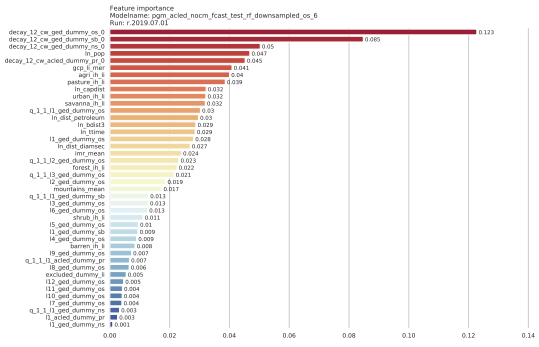


(d) 36 months

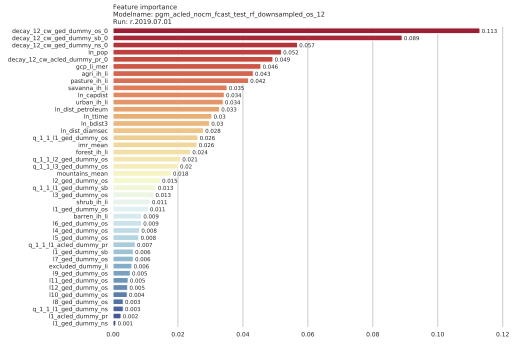
4.16.3 os_fcast



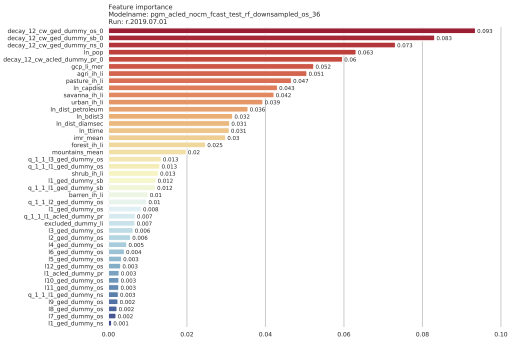
(a) 1 month



(b) 6 months

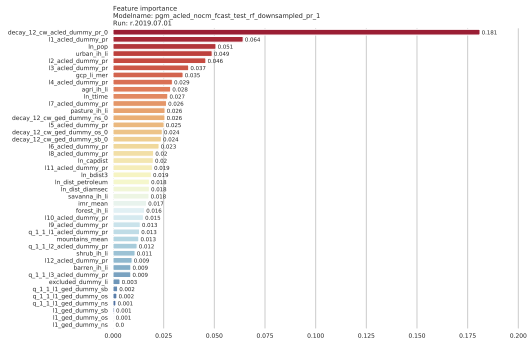


(c) 12 months

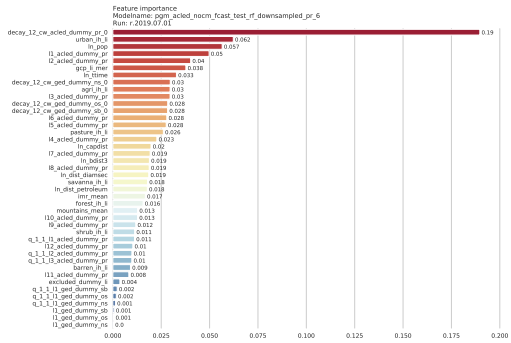


(d) 36 months

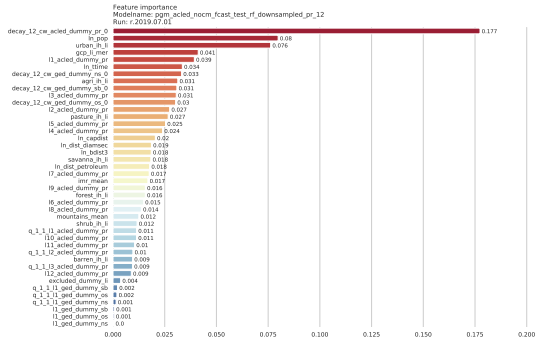
4.16.4 pr_fcast



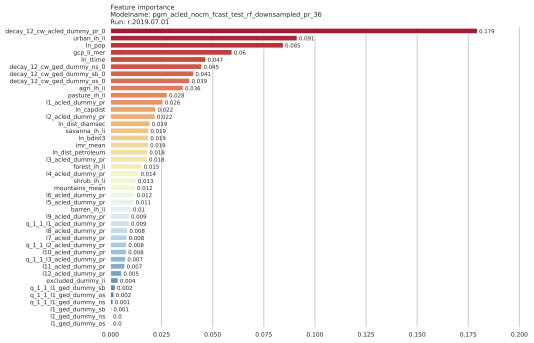
(a) 1 month



(b) 6 months

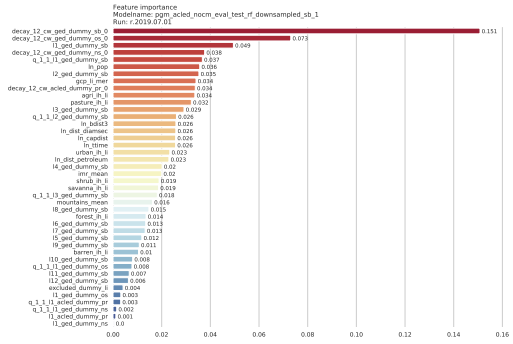


(c) 12 months

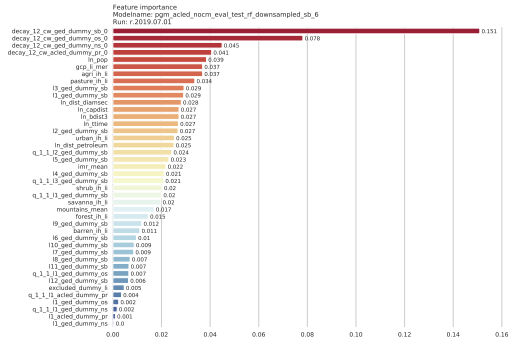


(d) 36 months

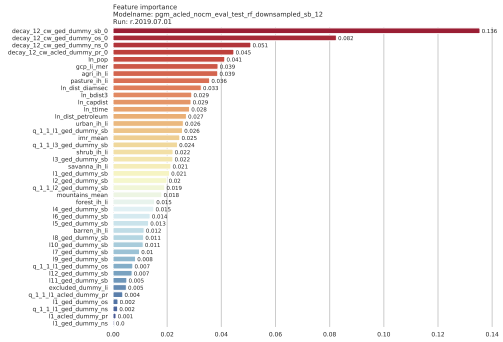
4.16.5 sb_eval



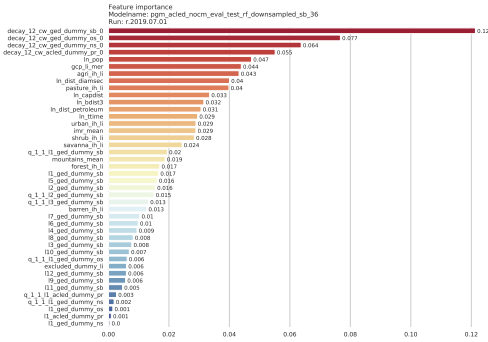
(a) 1 month



(b) 6 months

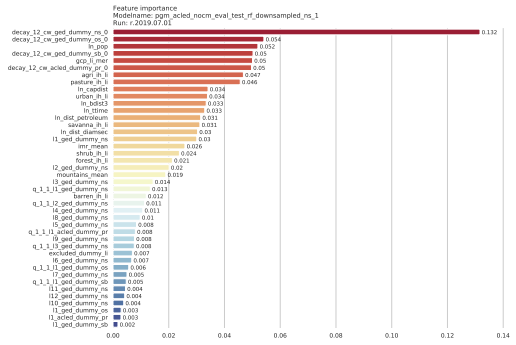


(c) 12 months

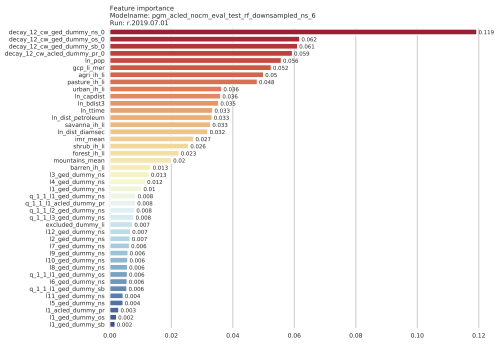


(d) 36 months

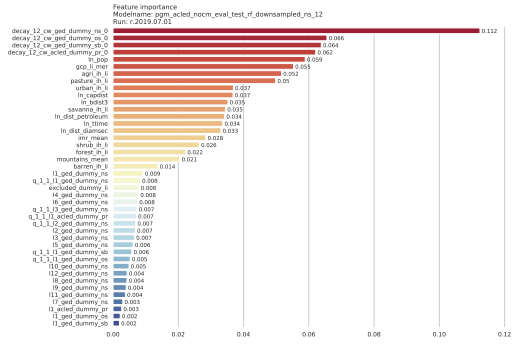
4.16.6 ns_eval



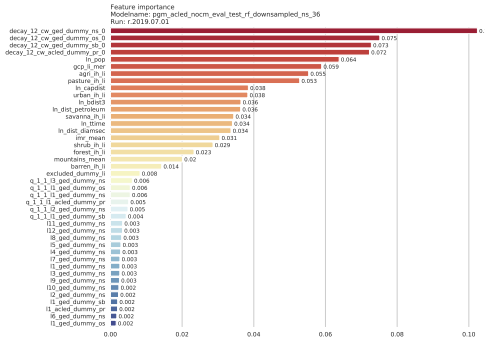
(a) 1 month



(b) 6 months

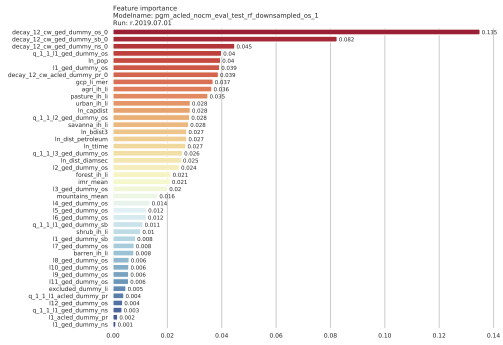


(c) 12 months

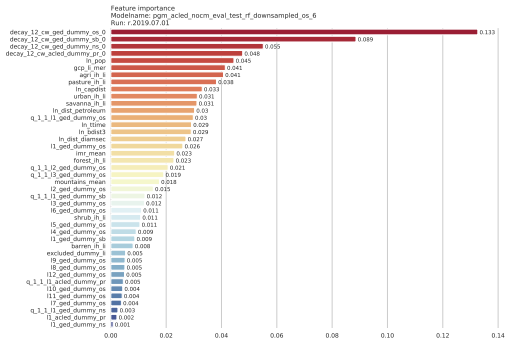


(d) 36 months

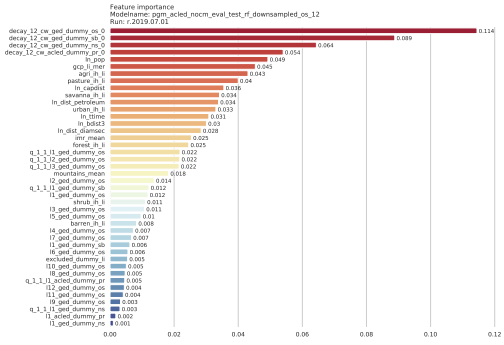
4.16.7 os_eval



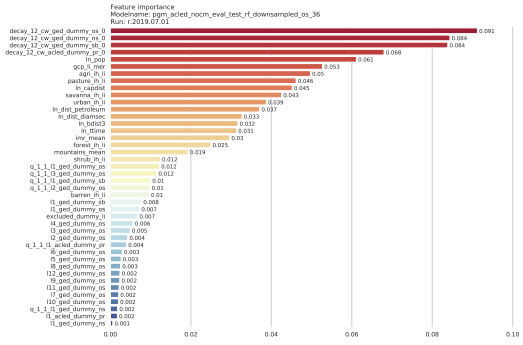
(a) 1 month



(b) 6 months

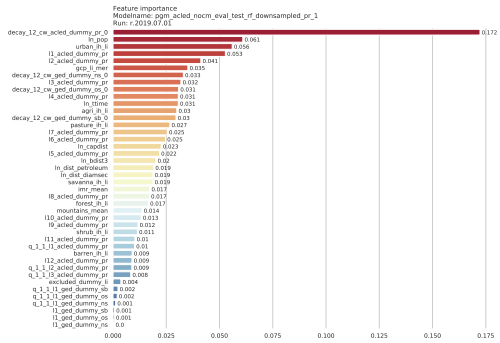


(c) 12 months

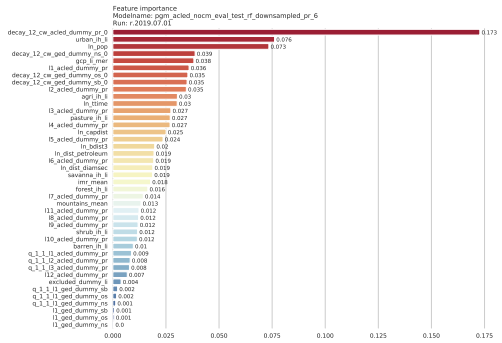


(d) 36 months

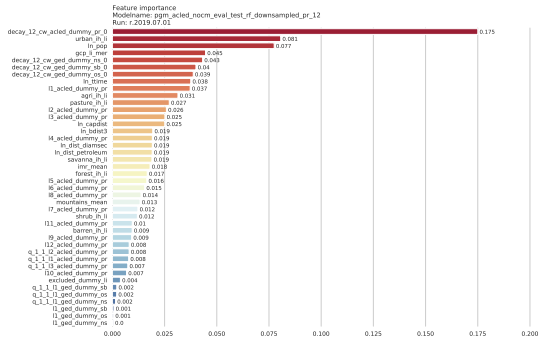
4.16.8 pr_eval



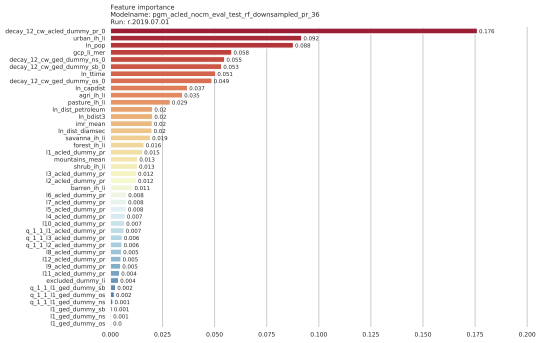
(a) 1 month



(b) 6 months



(c) 12 months



(d) 36 months

4.17 osa_pgm_acled_soc_logit

4.17.1 sb_fcast

Dep. Variable:	ged_dummy_sb	**No. Observations:**	295446
Model:	Logit	**Df Residuals:**	295438
Method:	MLE	**Df Model:**	7
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.1513
Time:	05:35:20	**Log-Likelihood:**	-38030.
converged:	True	**LL-Null:**	-44811.

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
ln_bdist3	-0.2514	0.008	-32.312	0.000	-0.267	-0.236
ln_ttime	-0.2508	0.021	-12.053	0.000	-0.292	-0.210
ln_capdist	0.0297	0.013	2.357	0.018	0.005	0.054
ln_pop	0.4758	0.009	52.145	0.000	0.458	0.494
gcp_li_mer	0.1452	0.011	13.518	0.000	0.124	0.166
imr_mean	0.0006	3.05e-05	18.073	0.000	0.000	0.001
excluded_dummy_li	0.7364	0.021	34.488	0.000	0.695	0.778
Intercept	-6.9820	0.210	-33.299	0.000	-7.393	-6.571

4.17.2 ns_fcast

Dep. Variable:	ged_dummy_ns	**No. Observations:**	289211
Model:	Logit	**Df Residuals:**	289203
Method:	MLE	**Df Model:**	7
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.1113
Time:	05:34:43	**Log-Likelihood:**	-16466.
converged:	True	**LL-Null:**	-18527.

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
ln_bdist3	-0.0943	0.014	-6.933	0.000	-0.121	-0.068
ln_ttime	0.0521	0.035	1.507	0.132	-0.016	0.120
ln_capdist	0.3782	0.024	15.990	0.000	0.332	0.425
ln_pop	0.6589	0.016	42.324	0.000	0.628	0.689
gcp_li_mer	0.0566	0.019	3.043	0.002	0.020	0.093
imr_mean	-0.0002	5.25e-05	-4.688	0.000	-0.000	-0.000
excluded_dummy_li	0.4680	0.036	12.963	0.000	0.397	0.539
Intercept	-13.6812	0.370	-36.937	0.000	-14.407	-12.955

4.17.3 os_fcast

Dep. Variable:	ged_dummy_os	**No. Observations:**	292193
Model:	Logit	**Df Residuals:**	292185
Method:	MLE	**Df Model:**	7
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.1782
Time:	05:33:47	**Log-Likelihood:**	-26296.
converged:	True	**LL-Null:**	-32000.

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
ln_bdist3	-0.2404	0.010	-25.279	0.000	-0.259	-0.222
ln_ttime	-0.3153	0.026	-11.983	0.000	-0.367	-0.264
ln_capdist	0.2180	0.015	14.501	0.000	0.189	0.247
ln_pop	0.6317	0.012	53.529	0.000	0.609	0.655
gcp_li_mer	0.0194	0.015	1.259	0.208	-0.011	0.050
imr_mean	0.0011	4.03e-05	27.929	0.000	0.001	0.001
excluded_dummy_li	0.6988	0.026	26.647	0.000	0.647	0.750
Intercept	-10.5823	0.269	-39.284	0.000	-11.110	-10.054

4.17.4 pr_fcast

Dep. Variable:	acled_dummy_pr	**No. Observations:**	308410
Model:	Logit	**Df Residuals:**	308402
Method:	MLE	**Df Model:**	7
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.3629
Time:	05:34:49	**Log-Likelihood:**	-54884.
converged:	True	**LL-Null:**	-86142.

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
ln_bdist3	-0.1485	0.006	-24.277	0.000	-0.160	-0.137
ln_ttime	-0.7863	0.016	-48.755	0.000	-0.818	-0.755
ln_capdist	-0.0539	0.009	-6.188	0.000	-0.071	-0.037
ln_pop	0.6701	0.007	95.094	0.000	0.656	0.684
gcp_li_mer	0.1942	0.010	19.273	0.000	0.174	0.214
imr_mean	-0.0007	2.4e-05	-28.170	0.000	-0.001	-0.001
excluded_dummy_li	0.0026	0.018	0.143	0.887	-0.033	0.038
Intercept	-4.1538	0.152	-27.344	0.000	-4.452	-3.856

4.17.5 sb_eval

Dep. Variable:	ged_dummy_sb	**No. Observations:**	249432
Model:	Logit	**Df Residuals:**	249424
Method:	MLE	**Df Model:**	7
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.1572
Time:	05:26:24	**Log-Likelihood:**	-29392.
converged:	True	**LL-Null:**	-34876.

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
ln_bdist3	-0.2333	0.009	-26.388	0.000	-0.251	-0.216
ln_ttime	-0.2278	0.024	-9.489	0.000	-0.275	-0.181
ln_capdist	-0.0565	0.014	-3.951	0.000	-0.085	-0.028
ln_pop	0.4814	0.011	45.725	0.000	0.461	0.502
gcp_li_mer	0.1462	0.013	11.548	0.000	0.121	0.171
imr_mean	0.0003	3.46e-05	9.662	0.000	0.000	0.000
excluded_dummy_li	0.9015	0.025	36.614	0.000	0.853	0.950
Intercept	-6.7142	0.241	-27.883	0.000	-7.186	-6.242

4.17.6 ns_eval

Dep. Variable:	ged_dummy_ns	**No. Observations:**	244449
Model:	Logit	**Df Residuals:**	244441
Method:	MLE	**Df Model:**	7
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.1177
Time:	05:26:26	**Log-Likelihood:**	-11542.
converged:	True	**LL-Null:**	-13082.

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
ln_bdist3	-0.1323	0.016	-8.144	0.000	-0.164	-0.100
ln_ttime	0.1775	0.042	4.234	0.000	0.095	0.260
ln_capdist	0.2772	0.028	9.901	0.000	0.222	0.332
ln_pop	0.6895	0.019	36.165	0.000	0.652	0.727
gcp_li_mer	0.1253	0.020	6.196	0.000	0.086	0.165
imr_mean	-9.544e-05	6.4e-05	-1.490	0.136	-0.000	3.01e-05
excluded_dummy_li	0.6559	0.044	15.032	0.000	0.570	0.741
Intercept	-14.4493	0.450	-32.074	0.000	-15.332	-13.566

4.17.7 os_eval

Dep. Variable:	ged_dummy_os	**No. Observations:**	246915
Model:	Logit	**Df Residuals:**	246907
Method:	MLE	**Df Model:**	7
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.1749
Time:	05:26:22	**Log-Likelihood:**	-20342.
converged:	True	**LL-Null:**	-24652.

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
ln_bdist3	-0.2322	0.011	-21.329	0.000	-0.253	-0.211
ln_ttime	-0.3380	0.030	-11.169	0.000	-0.397	-0.279
ln_capdist	0.1828	0.017	10.623	0.000	0.149	0.217
ln_pop	0.6162	0.014	45.435	0.000	0.590	0.643
gcp_li_mer	0.0524	0.017	3.169	0.002	0.020	0.085
imr_mean	0.0011	4.57e-05	24.498	0.000	0.001	0.001
excluded_dummy_li	0.7682	0.030	25.513	0.000	0.709	0.827
Intercept	-10.2365	0.308	-33.198	0.000	-10.841	-9.632

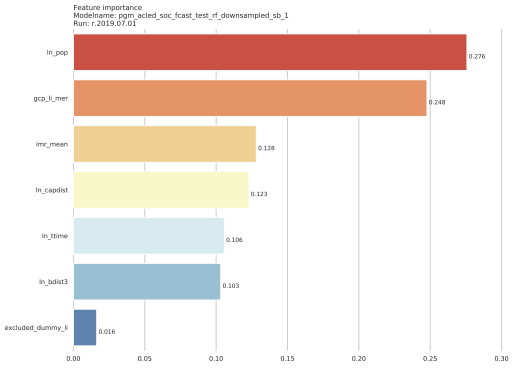
4.17.8 pr_eval

Dep. Variable:	acled_dummy_pr	**No. Observations:**	255567
Model:	Logit	**Df Residuals:**	255559
Method:	MLE	**Df Model:**	7
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.3621
Time:	05:27:18	**Log-Likelihood:**	-35822.
converged:	True	**LL-Null:**	-56152.

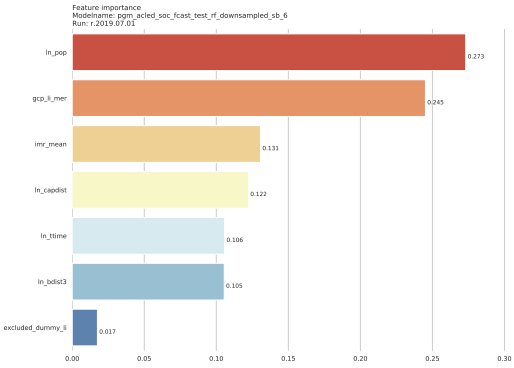
	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
ln_bdist3	-0.1665	0.008	-21.826	0.000	-0.181	-0.152
ln_ttime	-0.8428	0.021	-41.009	0.000	-0.883	-0.803
ln_capdist	-0.0827	0.011	-7.830	0.000	-0.103	-0.062
ln_pop	0.6604	0.009	74.089	0.000	0.643	0.678
gcp_li_mer	0.1812	0.012	15.294	0.000	0.158	0.204
imr_mean	-0.0005	3.04e-05	-15.520	0.000	-0.001	-0.000
excluded_dummy_li	-0.0702	0.023	-3.043	0.002	-0.115	-0.025
Intercept	-4.0232	0.192	-20.937	0.000	-4.400	-3.647

4.18 osa_pgm_acled_soc_rf

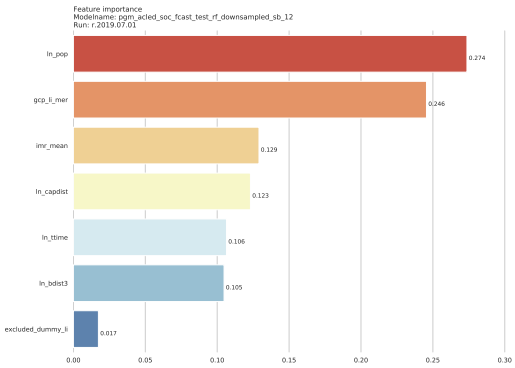
4.18.1 sb_fcast



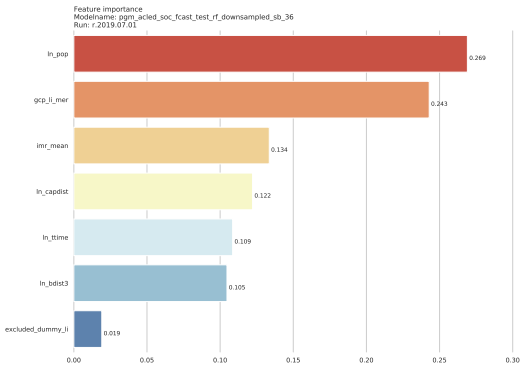
(a) 1 month



(b) 6 months

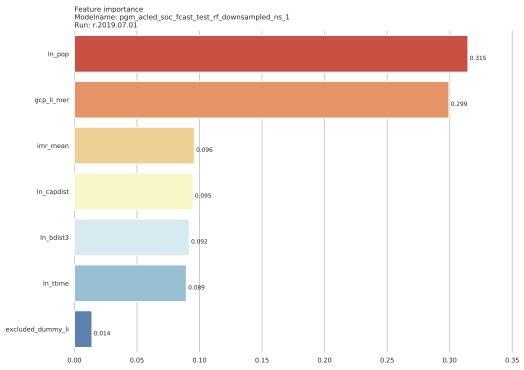


(c) 12 months

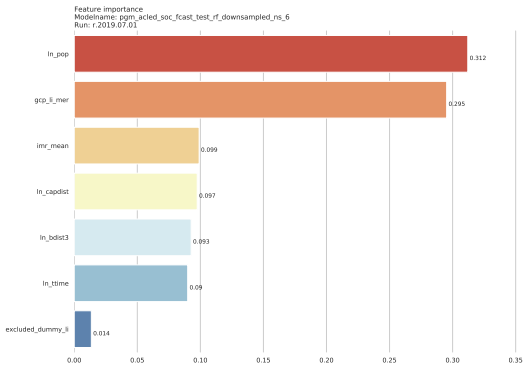


(d) 36 months

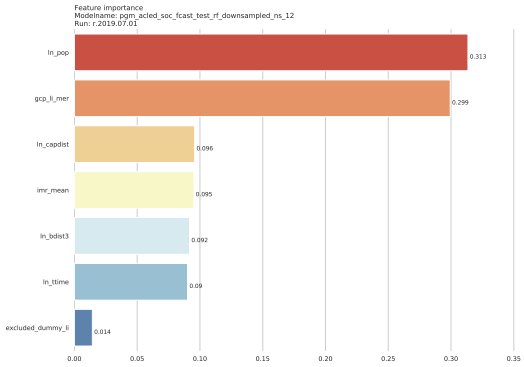
4.18.2 ns_fcast



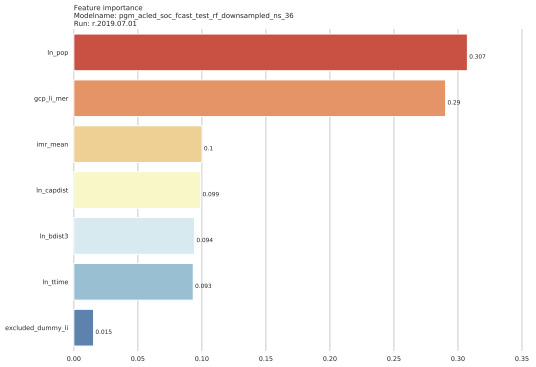
(a) 1 month



(b) 6 months

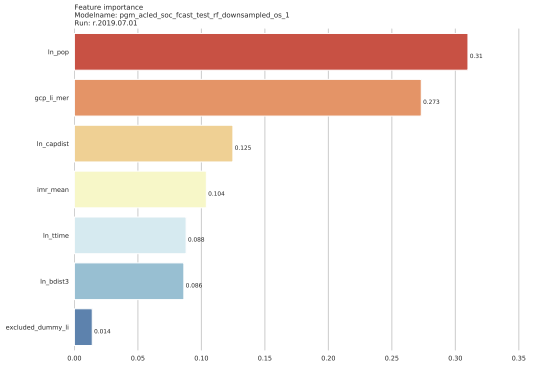


(c) 12 months

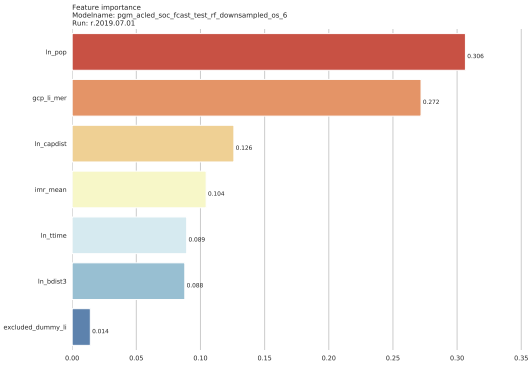


(d) 36 months

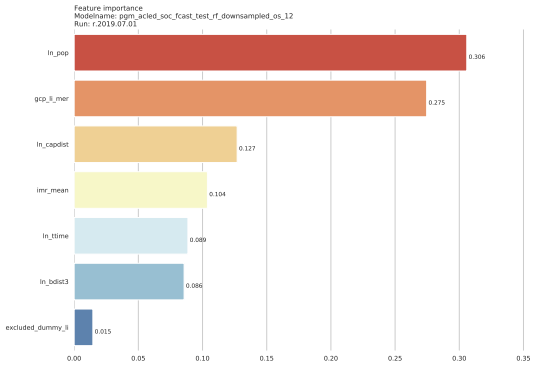
4.18.3 os_fcast



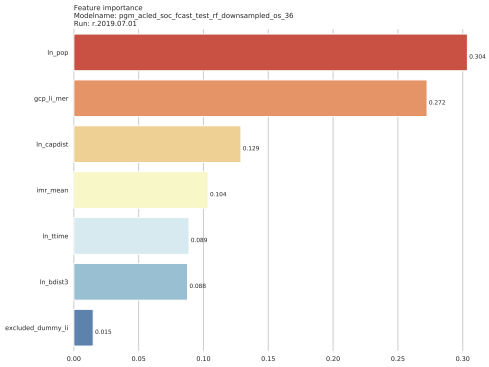
(a) 1 month



(b) 6 months

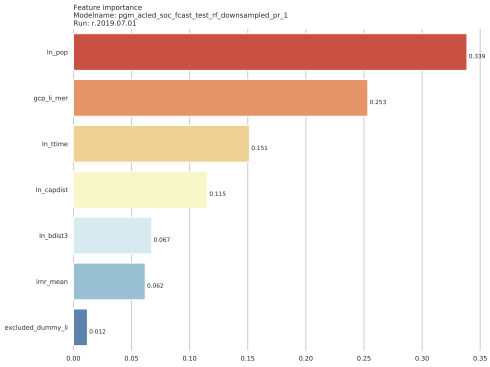


(c) 12 months

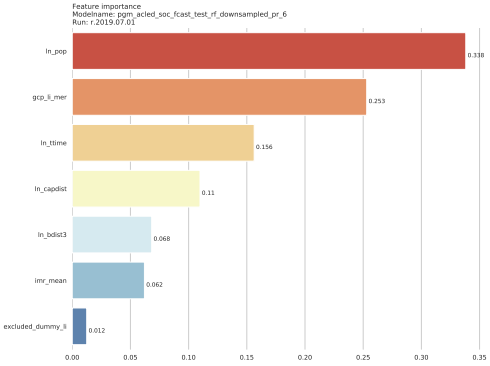


(d) 36 months

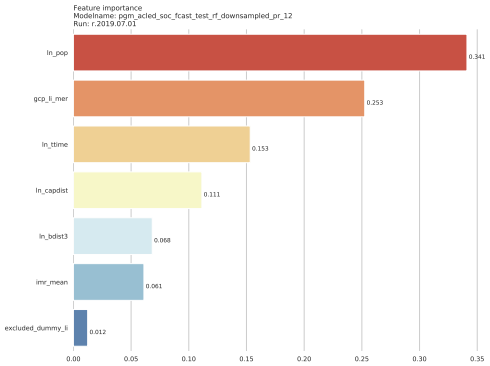
4.18.4 pr_fcast



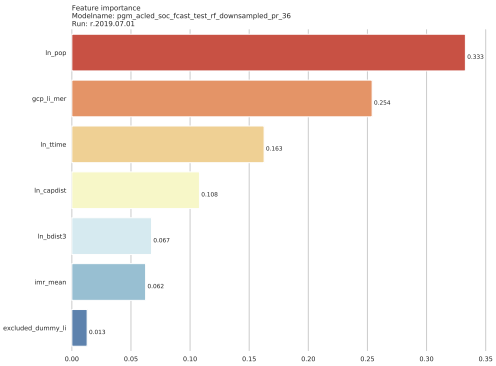
(a) 1 month



(b) 6 months

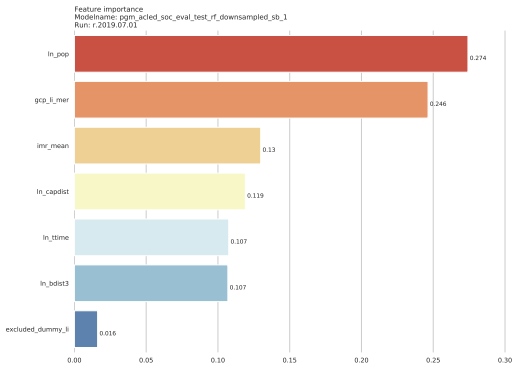


(c) 12 months

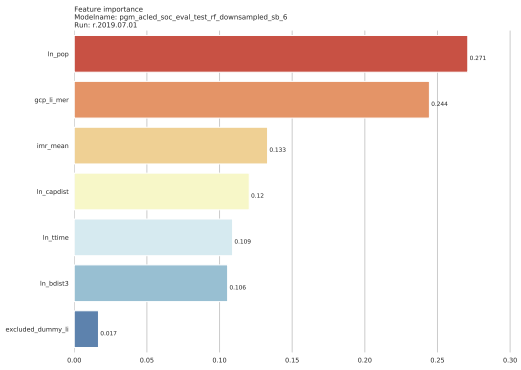


(d) 36 months

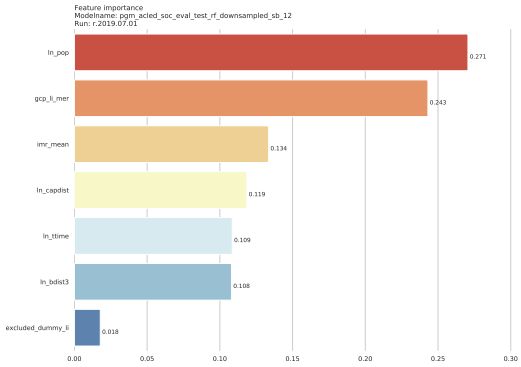
4.18.5 sb_eval



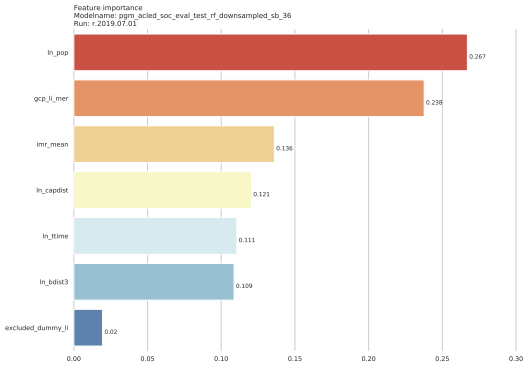
(a) 1 month



(b) 6 months

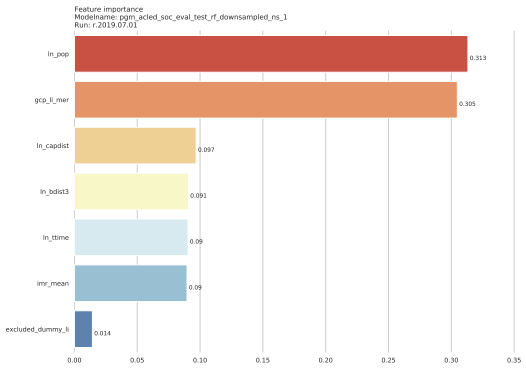


(c) 12 months

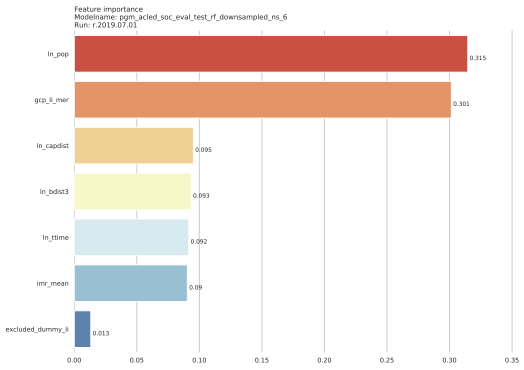


(d) 36 months

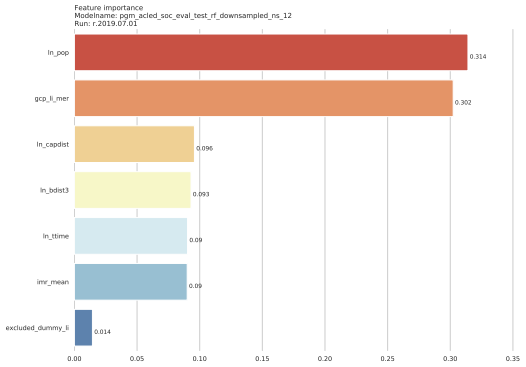
4.18.6 ns_eval



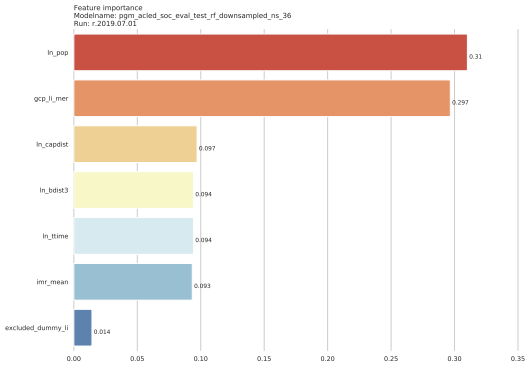
(a) 1 month



(b) 6 months

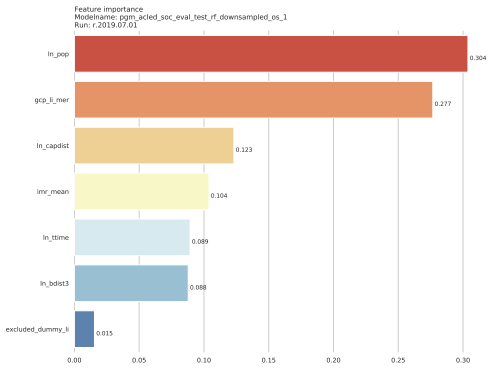


(c) 12 months

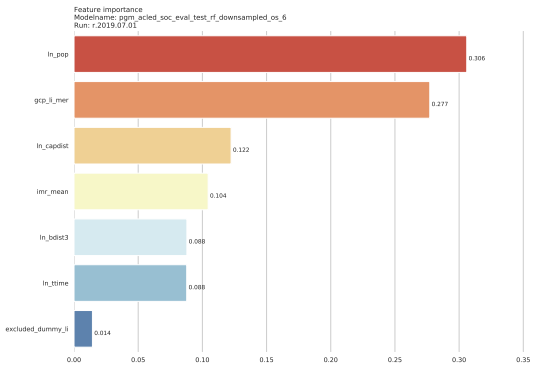


(d) 36 months

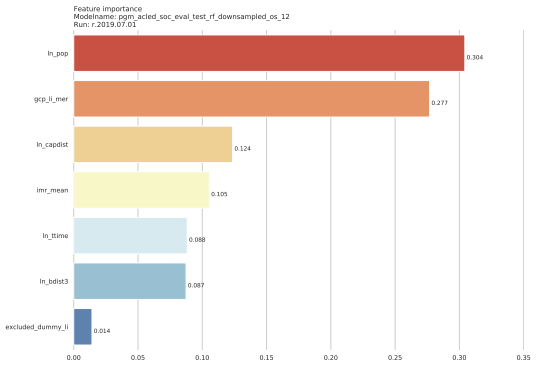
4.18.7 os_eval



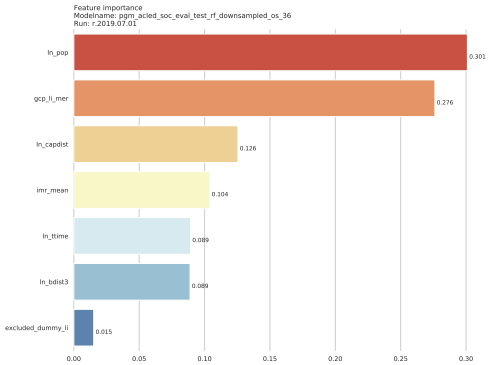
(a) 1 month



(b) 6 months

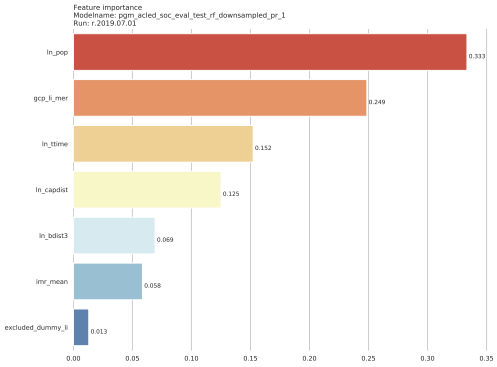


(c) 12 months

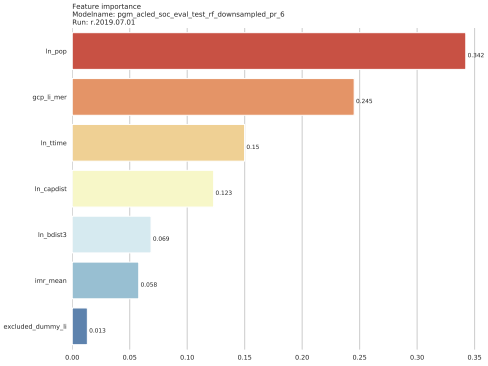


(d) 36 months

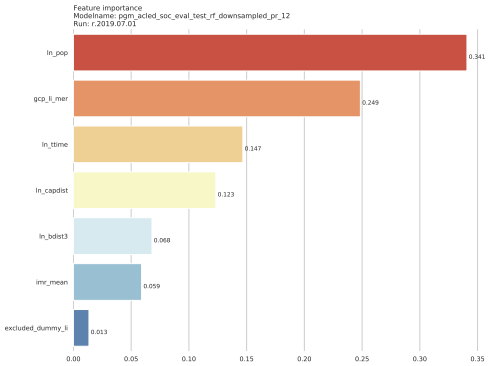
4.18.8 pr_eval



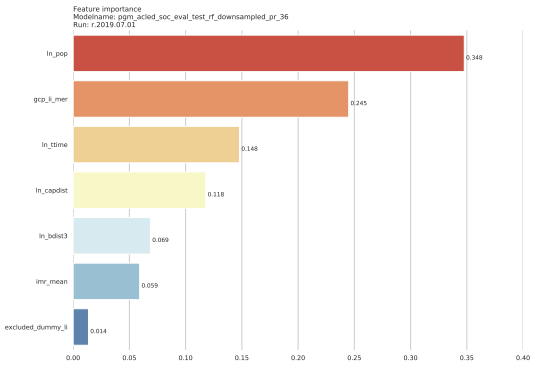
(a) 1 month



(b) 6 months



(c) 12 months



(d) 36 months

4.19 osa_pgm_acled_nat_logit

4.19.1 sb_fcast

Dep. Variable:	ged_dummy_sb	**No. Observations:**	295446
Model:	Logit	**Df Residuals:**	295435
Method:	MLE	**Df Model:**	10
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.1229
Time:	05:06:02	**Log-Likelihood:**	-39304.
converged:	True	**LL-Null:**	-44811.

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
ln_dist_diamsec	0.5519	0.015	36.576	0.000	0.522	0.581
ln_dist_petroleum	0.0469	0.017	2.690	0.007	0.013	0.081
agri_ih_li	0.0135	0.001	18.345	0.000	0.012	0.015
barren_ih_li	-0.0284	0.001	-37.395	0.000	-0.030	-0.027
forest_ih_li	-0.0022	0.001	-2.840	0.005	-0.004	-0.001
mountains_mean	0.4103	0.034	12.232	0.000	0.345	0.476
savanna_ih_li	-0.0120	0.001	-14.981	0.000	-0.014	-0.010
shrub_ih_li	0.0060	0.001	7.314	0.000	0.004	0.008
pasture_ih_li	-0.0036	0.001	-5.770	0.000	-0.005	-0.002
urban_ih_li	0.1838	0.007	26.830	0.000	0.170	0.197
Intercept	-4.1419	0.075	-55.013	0.000	-4.290	-3.994

4.19.2 ns_fcast

Dep. Variable:	ged_dummy_ns	**No. Observations:**	289211
Model:	Logit	**Df Residuals:**	289200
Method:	MLE	**Df Model:**	10
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.1064
Time:	05:00:28	**Log-Likelihood:**	-16556.
converged:	True	**LL-Null:**	-18527.

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
ln_dist_diamsec	0.3891	0.026	15.127	0.000	0.339	0.440
ln_dist_petroleum	0.4894	0.035	13.896	0.000	0.420	0.558
agri_ih_li	0.0320	0.001	23.211	0.000	0.029	0.035
barren_ih_li	-0.0140	0.001	-9.511	0.000	-0.017	-0.011
forest_ih_li	0.0060	0.001	3.976	0.000	0.003	0.009
mountains_mean	0.0206	0.062	0.331	0.740	-0.101	0.142
savanna_ih_li	0.0009	0.001	0.584	0.559	-0.002	0.004
shrub_ih_li	0.0167	0.002	10.310	0.000	0.014	0.020
pasture_ih_li	0.0061	0.001	4.818	0.000	0.004	0.009
urban_ih_li	0.2012	0.009	22.986	0.000	0.184	0.218
Intercept	-6.9818	0.154	-45.414	0.000	-7.283	-6.681

4.19.3 os_fcast

Dep. Variable:	ged_dummy_os	**No. Observations:**	292193
Model:	Logit	**Df Residuals:**	292182
Method:	MLE	**Df Model:**	10
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.1268
Time:	05:06:09	**Log-Likelihood:**	-27943.
converged:	True	**LL-Null:**	-32000.

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
ln_dist_diamsec	-0.0177	0.017	-1.017	0.309	-0.052	0.016
ln_dist_petroleum	0.8621	0.028	30.596	0.000	0.807	0.917
agri_ih_li	0.0231	0.001	24.683	0.000	0.021	0.025
barren_ih_li	-0.0237	0.001	-19.615	0.000	-0.026	-0.021
forest_ih_li	0.0063	0.001	7.266	0.000	0.005	0.008
mountains_mean	0.9341	0.040	23.281	0.000	0.855	1.013
savanna_ih_li	0.0029	0.001	3.430	0.001	0.001	0.005
shrub_ih_li	-0.0134	0.002	-8.285	0.000	-0.017	-0.010
pasture_ih_li	-0.0049	0.001	-5.810	0.000	-0.007	-0.003
urban_ih_li	0.2349	0.008	30.588	0.000	0.220	0.250
Intercept	-5.9599	0.103	-58.125	0.000	-6.161	-5.759

4.19.4 pr_fcast

Dep. Variable:	acled_dummy_pr	**No. Observations:**	308410
Model:	Logit	**Df Residuals:**	308399
Method:	MLE	**Df Model:**	10
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.2733
Time:	05:06:36	**Log-Likelihood:**	-62599.
converged:	True	**LL-Null:**	-86142.

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
ln_dist_diamsec	0.2333	0.011	21.358	0.000	0.212	0.255
ln_dist_petroleum	0.0806	0.013	6.198	0.000	0.055	0.106
agri_ih_li	0.0264	0.001	48.163	0.000	0.025	0.027
barren_ih_li	-0.0163	0.001	-30.970	0.000	-0.017	-0.015
forest_ih_li	-0.0049	0.001	-8.027	0.000	-0.006	-0.004
mountains_mean	0.6573	0.026	25.677	0.000	0.607	0.707
savanna_ih_li	-0.0106	0.001	-17.853	0.000	-0.012	-0.009
shrub_ih_li	-0.0024	0.001	-3.139	0.002	-0.004	-0.001
pasture_ih_li	-0.0030	0.000	-6.185	0.000	-0.004	-0.002
urban_ih_li	0.8112	0.009	91.243	0.000	0.794	0.829
Intercept	-3.4369	0.056	-60.836	0.000	-3.548	-3.326

4.19.5 sb_eval

Dep. Variable:	ged_dummy_sb	**No. Observations:**	249432
Model:	Logit	**Df Residuals:**	249421
Method:	MLE	**Df Model:**	10
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.1382
Time:	04:55:38	**Log-Likelihood:**	-30057.
converged:	True	**LL-Null:**	-34876.

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
ln_dist_diamsec	0.5664	0.017	32.756	0.000	0.533	0.600
ln_dist_petroleum	-0.0021	0.020	-0.106	0.915	-0.041	0.037
agri_ih_li	0.0118	0.001	14.135	0.000	0.010	0.013
barren_ih_li	-0.0327	0.001	-36.209	0.000	-0.034	-0.031
forest_ih_li	-0.0035	0.001	-4.034	0.000	-0.005	-0.002
mountains_mean	0.6324	0.037	16.889	0.000	0.559	0.706
savanna_ih_li	-0.0129	0.001	-14.320	0.000	-0.015	-0.011
shrub_ih_li	0.0063	0.001	6.881	0.000	0.004	0.008
pasture_ih_li	-0.0062	0.001	-8.889	0.000	-0.008	-0.005
urban_ih_li	0.2021	0.008	24.967	0.000	0.186	0.218
Intercept	-4.0683	0.085	-47.941	0.000	-4.235	-3.902

4.19.6 ns_eval

Dep. Variable:	ged_dummy_ns	**No. Observations:**	244449
Model:	Logit	**Df Residuals:**	244438
Method:	MLE	**Df Model:**	10
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.1244
Time:	04:55:18	**Log-Likelihood:**	-11454.
converged:	True	**LL-Null:**	-13082.

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
ln_dist_diamsec	0.5681	0.032	17.499	0.000	0.504	0.632
ln_dist_petroleum	0.8365	0.047	17.646	0.000	0.744	0.929
agri_ih_li	0.0351	0.002	20.120	0.000	0.032	0.038
barren_ih_li	-0.0123	0.002	-6.544	0.000	-0.016	-0.009
forest_ih_li	0.0117	0.002	6.298	0.000	0.008	0.015
mountains_mean	0.0428	0.075	0.574	0.566	-0.103	0.189
savanna_ih_li	0.0024	0.002	1.264	0.206	-0.001	0.006
shrub_ih_li	0.0235	0.002	12.030	0.000	0.020	0.027
pasture_ih_li	0.0108	0.002	6.817	0.000	0.008	0.014
urban_ih_li	0.2313	0.010	22.896	0.000	0.212	0.251
Intercept	-8.7892	0.200	-43.851	0.000	-9.182	-8.396

4.19.7 os_eval

Dep. Variable:	ged_dummy_os	**No. Observations:**	246915
Model:	Logit	**Df Residuals:**	246904
Method:	MLE	**Df Model:**	10
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.1254
Time:	04:56:20	**Log-Likelihood:**	-21560.
converged:	True	**LL-Null:**	-24652.

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
ln_dist_diamsec	-0.0461	0.020	-2.317	0.021	-0.085	-0.007
ln_dist_petroleum	0.8287	0.032	25.929	0.000	0.766	0.891
agri_ih_li	0.0231	0.001	21.385	0.000	0.021	0.025
barren_ih_li	-0.0240	0.001	-16.883	0.000	-0.027	-0.021
forest_ih_li	0.0079	0.001	8.073	0.000	0.006	0.010
mountains_mean	0.9737	0.046	21.203	0.000	0.884	1.064
savanna_ih_li	0.0033	0.001	3.333	0.001	0.001	0.005
shrub_ih_li	-0.0138	0.002	-7.283	0.000	-0.017	-0.010
pasture_ih_li	-0.0045	0.001	-4.626	0.000	-0.006	-0.003
urban_ih_li	0.2387	0.009	27.327	0.000	0.222	0.256
Intercept	-6.0010	0.117	-51.386	0.000	-6.230	-5.772

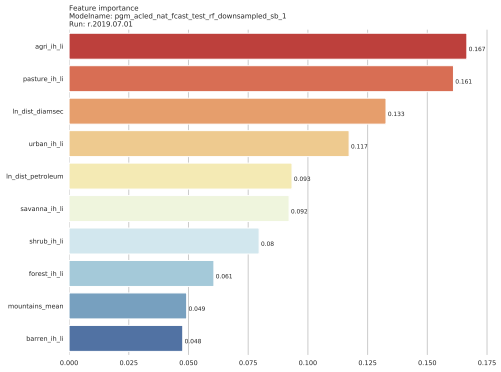
4.19.8 pr_eval

Dep. Variable:	acled_dummy_pr	**No. Observations:**	255567
Model:	Logit	**Df Residuals:**	255556
Method:	MLE	**Df Model:**	10
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.2634
Time:	04:57:00	**Log-Likelihood:**	-41363.
converged:	True	**LL-Null:**	-56152.

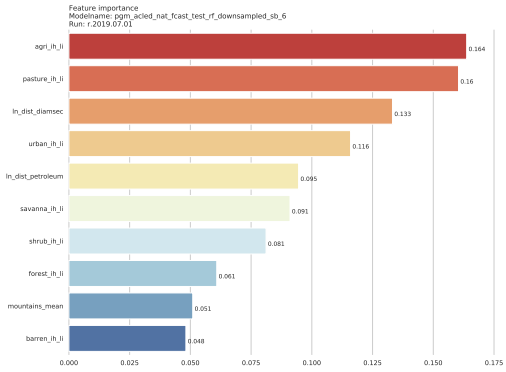
	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
ln_dist_diamsec	0.1180	0.014	8.617	0.000	0.091	0.145
ln_dist_petroleum	0.1912	0.017	11.221	0.000	0.158	0.225
agri_ih_li	0.0246	0.001	36.603	0.000	0.023	0.026
barren_ih_li	-0.0159	0.001	-24.193	0.000	-0.017	-0.015
forest_ih_li	-0.0065	0.001	-8.514	0.000	-0.008	-0.005
mountains_mean	0.5762	0.033	17.419	0.000	0.511	0.641
savanna_ih_li	-0.0114	0.001	-15.583	0.000	-0.013	-0.010
shrub_ih_li	-0.0015	0.001	-1.593	0.111	-0.003	0.000
pasture_ih_li	-0.0045	0.001	-7.254	0.000	-0.006	-0.003
urban_ih_li	0.7887	0.010	77.789	0.000	0.769	0.809
Intercept	-3.7076	0.071	-52.160	0.000	-3.847	-3.568

4.20 osa_pgm_acled_nat_rf

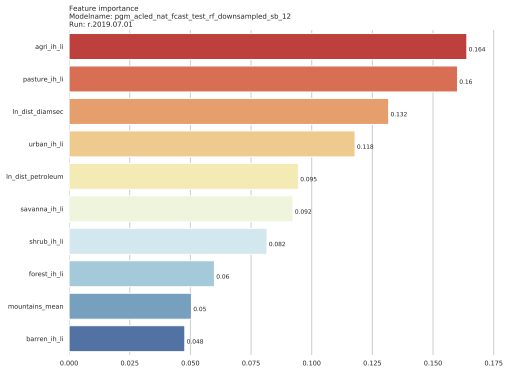
4.20.1 sb_fcast



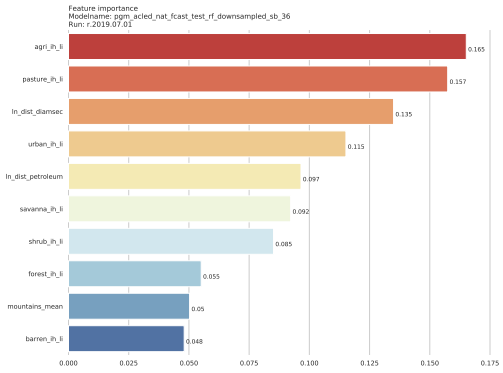
(a) 1 month



(b) 6 months

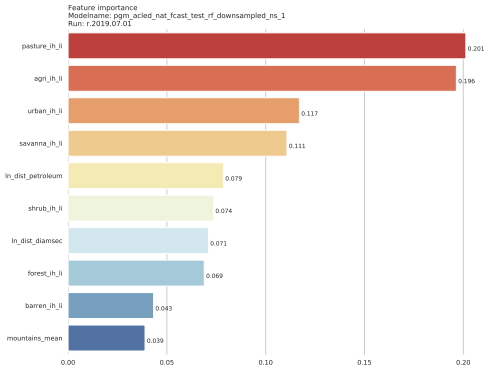


(c) 12 months

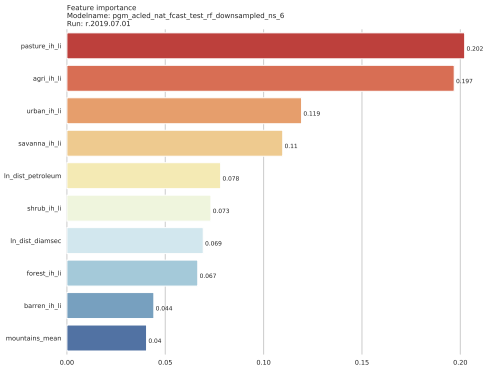


(d) 36 months

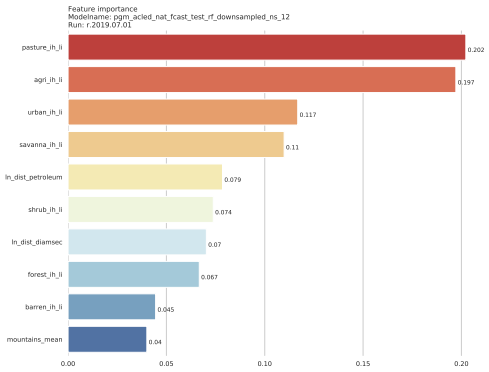
4.20.2 ns_fcast



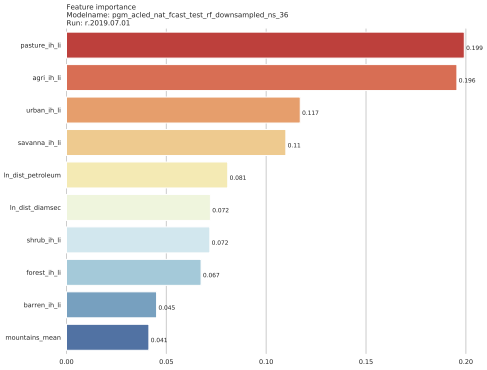
(a) 1 month



(b) 6 months

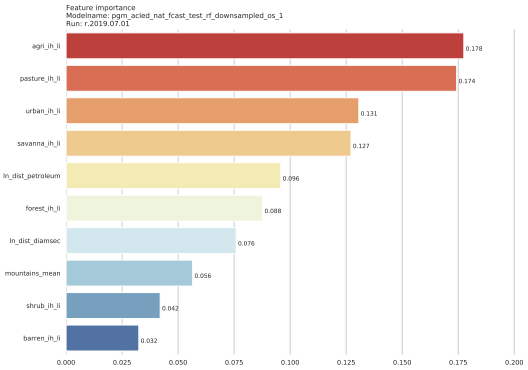


(c) 12 months

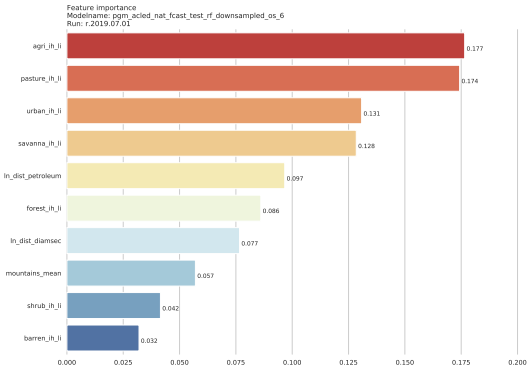


(d) 36 months

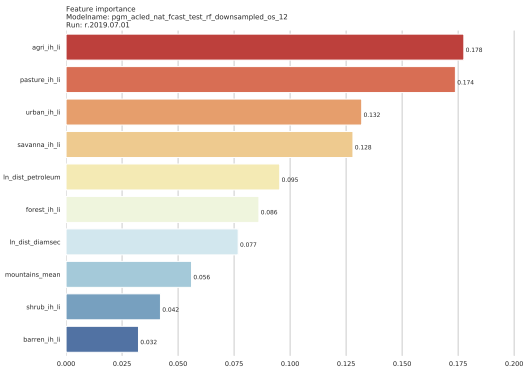
4.20.3 os_fcast



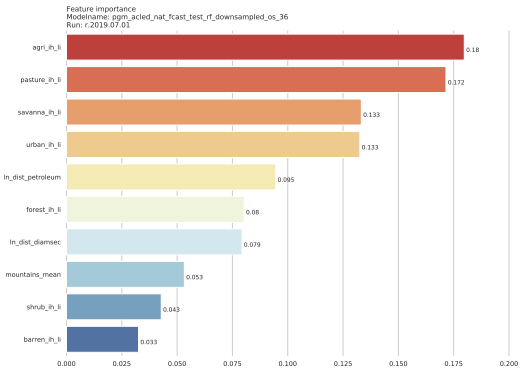
(a) 1 month



(b) 6 months

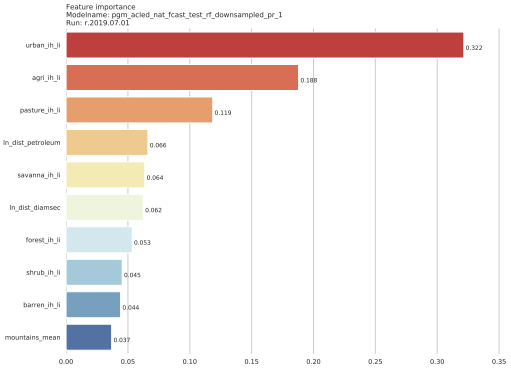


(c) 12 months

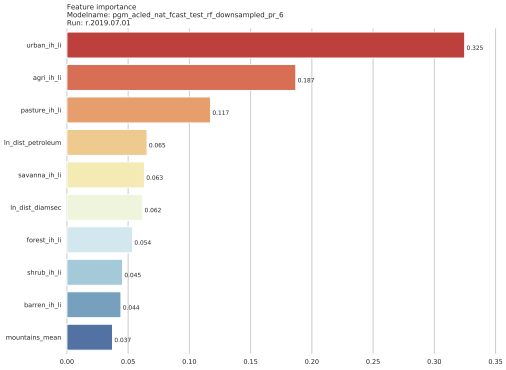


(d) 36 months

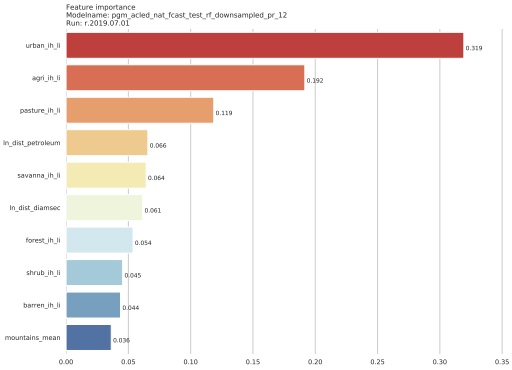
4.20.4 pr_fcast



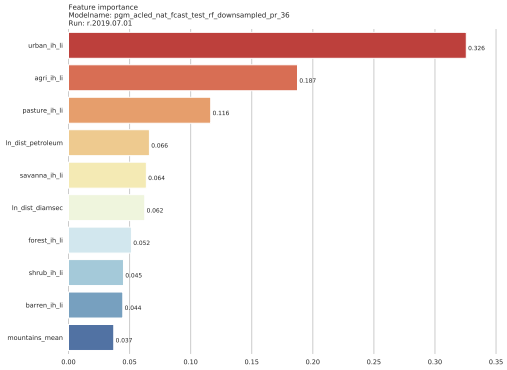
(a) 1 month



(b) 6 months

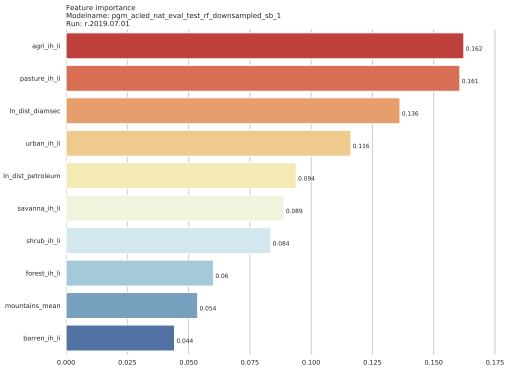


(c) 12 months

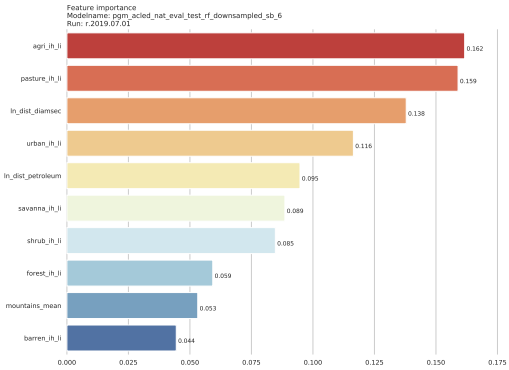


(d) 36 months

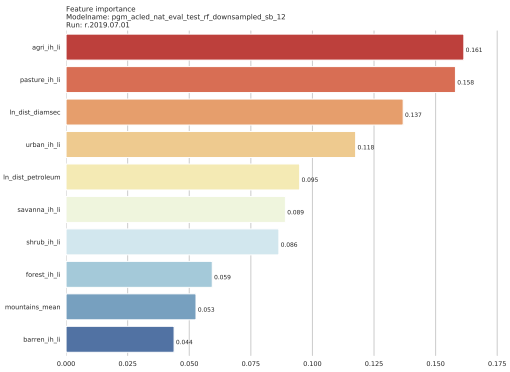
4.20.5 sb_eval



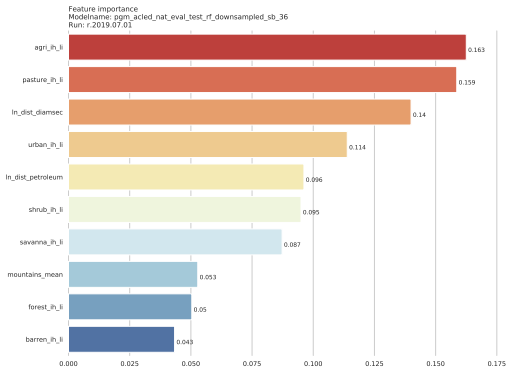
(a) 1 month



(b) 6 months

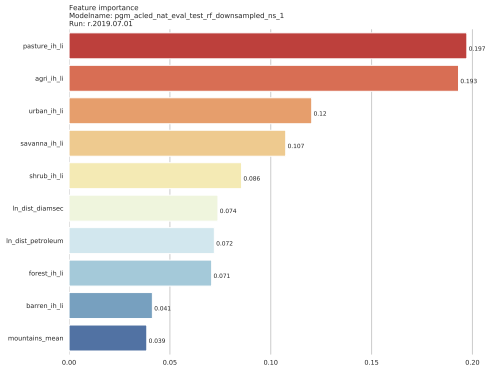


(c) 12 months

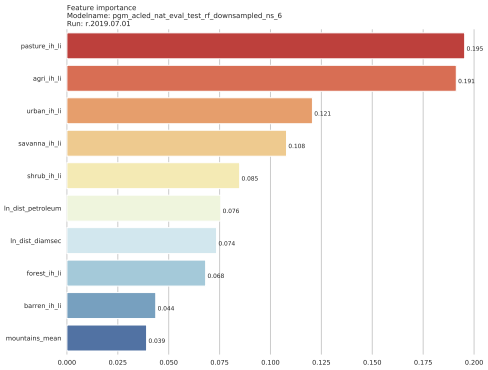


(d) 36 months

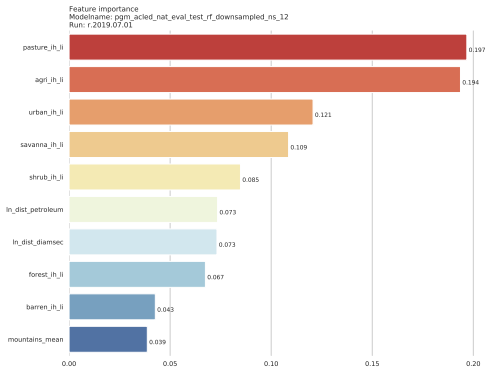
4.20.6 ns_eval



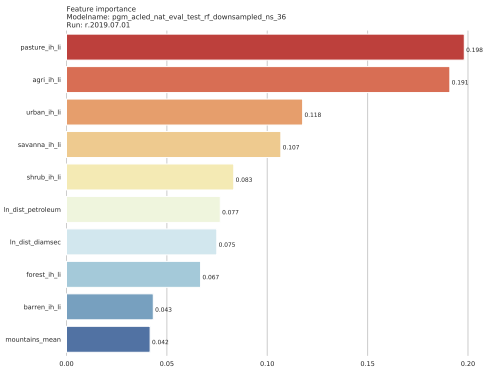
(a) 1 month



(b) 6 months

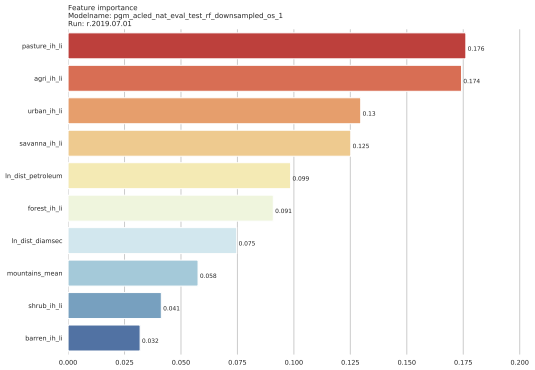


(c) 12 months

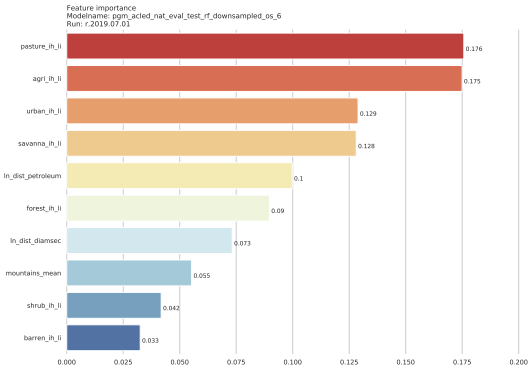


(d) 36 months

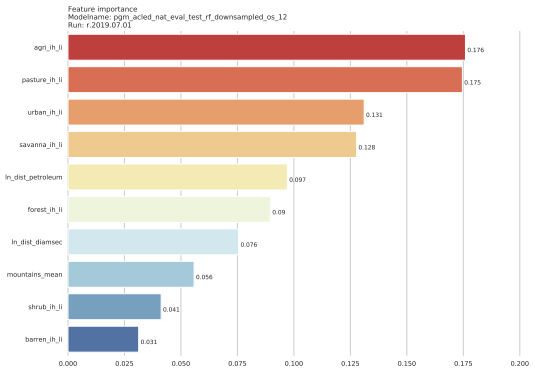
4.20.7 os_eval



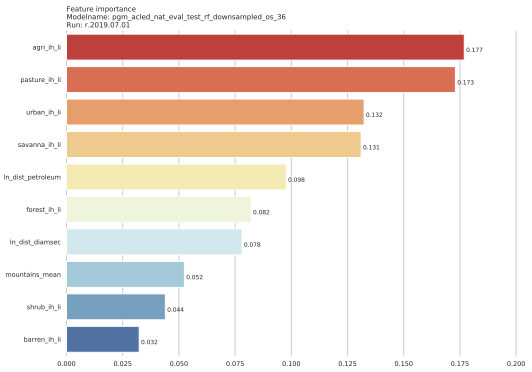
(a) 1 month



(b) 6 months

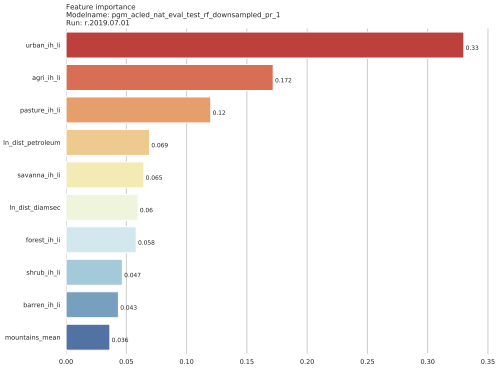


(c) 12 months

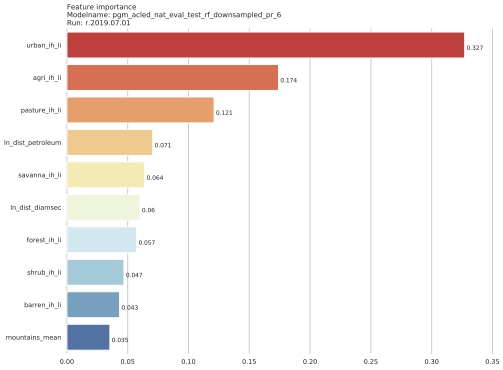


(d) 36 months

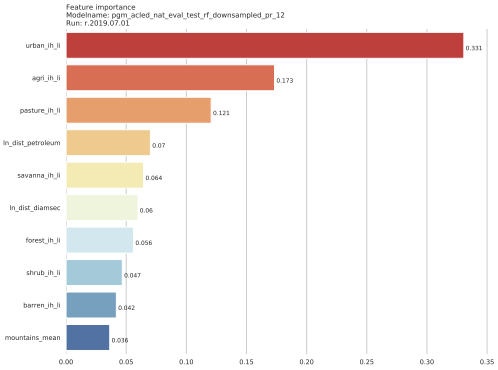
4.20.8 pr_eval



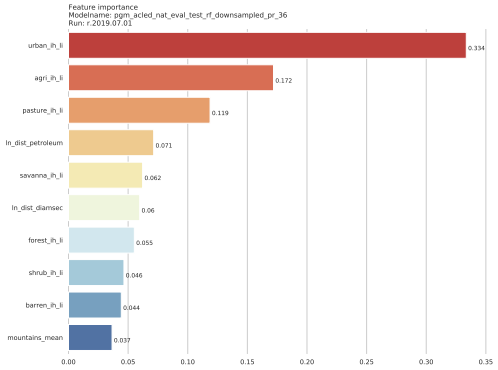
(a) 1 month



(b) 6 months



(c) 12 months



(d) 36 months

4.21 osa_pgm_acled_mean_logit

4.21.1 sb_fcast

Dep. Variable:	ged_dummy_sb	**No. Observations:**	295446
Model:	Logit	**Df Residuals:**	295444
Method:	MLE	**Df Model:**	1
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.3419
Time:	03:55:39	**Log-Likelihood:**	-29489.
converged:	True	**LL-Null:**	-44811.

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
mean_ged_dummy_sb_fcast_test	42.7380	0.338	126.564	0.000	42.076	43.400
Intercept	-4.1178	0.014	-285.172	0.000	-4.146	-4.089

4.21.2 ns_fcast

Dep. Variable:	ged_dummy_ns	**No. Observations:**	289211
Model:	Logit	**Df Residuals:**	289209
Method:	MLE	**Df Model:**	1
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.1943
Time:	03:56:35	**Log-Likelihood:**	-14928.
converged:	True	**LL-Null:**	-18527.

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
mean_ged_dummy_ns_fcast_test	60.1451	0.820	73.337	0.000	58.538	61.753
Intercept	-4.8441	0.021	-232.531	0.000	-4.885	-4.803

4.21.3 os_fcast

Dep. Variable:	ged_dummy_os	**No. Observations:**	292193
Model:	Logit	**Df Residuals:**	292191
Method:	MLE	**Df Model:**	1
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.2743
Time:	03:56:08	**Log-Likelihood:**	-23223.
converged:	True	**LL-Null:**	-32000.

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
mean_ged_dummy_os_fcast_test	50.3527	0.495	101.770	0.000	49.383	51.322
Intercept	-4.3718	0.016	-266.417	0.000	-4.404	-4.340

4.21.4 pr_fcast

Dep. Variable:	acled_dummy_pr	**No. Observations:**	308410
Model:	Logit	**Df Residuals:**	308408
Method:	MLE	**Df Model:**	1
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.4023
Time:	03:56:57	**Log-Likelihood:**	-51486.
converged:	True	**LL-Null:**	-86142.

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
mean_acled_dummy_pr_fcast_test	33.1108	0.193	171.328	0.000	32.732	33.490
Intercept	-3.4578	0.011	-328.454	0.000	-3.478	-3.437

4.21.5 sb_eval

Dep. Variable:	ged_dummy_sb	**No. Observations:**	249432
Model:	Logit	**Df Residuals:**	249430
Method:	MLE	**Df Model:**	1
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.3431
Time:	03:50:16	**Log-Likelihood:**	-22908.
converged:	True	**LL-Null:**	-34876.

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
mean_ged_dummy_sb_eval_test	43.2105	0.404	106.850	0.000	42.418	44.003
Intercept	-4.2043	0.016	-256.551	0.000	-4.236	-4.172

4.21.6 ns_eval

Dep. Variable:	ged_dummy_ns	**No. Observations:**	244449
Model:	Logit	**Df Residuals:**	244447
Method:	MLE	**Df Model:**	1
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.1619
Time:	03:36:14	**Log-Likelihood:**	-10964.
converged:	True	**LL-Null:**	-13082.

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
mean_ged_dummy_ns_eval_test	52.7106	0.952	55.349	0.000	50.844	54.577
Intercept	-4.9734	0.024	-205.688	0.000	-5.021	-4.926

4.21.7 os_eval

Dep. Variable:	ged_dummy_os	**No. Observations:**	246915
Model:	Logit	**Df Residuals:**	246913
Method:	MLE	**Df Model:**	1
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.2916
Time:	03:36:12	**Log-Likelihood:**	-17465.
converged:	True	**LL-Null:**	-24652.

	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
mean_ged_dummy_os_eval_test	57.2312	0.622	92.026	0.000	56.012	58.450
Intercept	-4.5306	0.019	-235.020	0.000	-4.568	-4.493

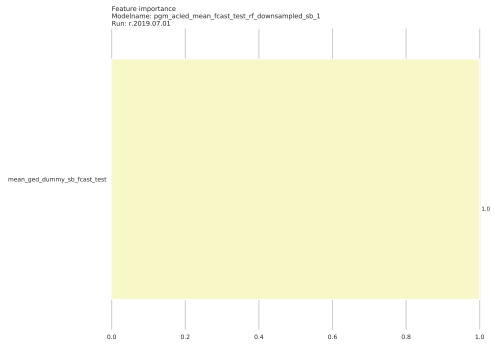
4.21.8 pr_eval

Dep. Variable:	acled_dummy_pr	**No. Observations:**	255567
Model:	Logit	**Df Residuals:**	255565
Method:	MLE	**Df Model:**	1
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.3998
Time:	03:49:26	**Log-Likelihood:**	-33700.
converged:	True	**LL-Null:**	-56152.

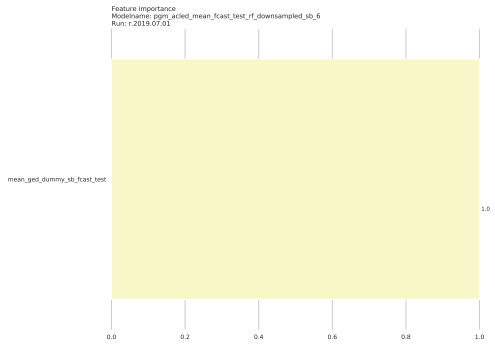
	coef	**std err**	**z**	**P>|z|**	**[0.025**	**0.975]**
mean_acled_dummy_pr_eval_test	39.1006	0.284	137.725	0.000	38.544	39.657
Intercept	-3.7502	0.013	-284.312	0.000	-3.776	-3.724

4.22 osa_pgm_acled_mean_rf

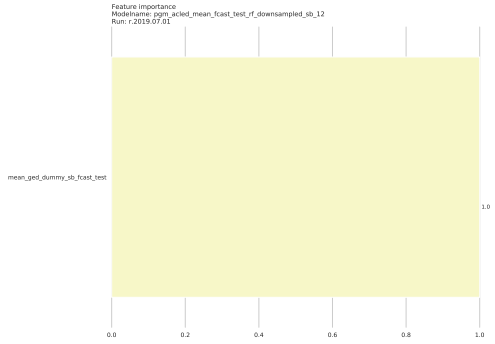
4.22.1 sb_fcast



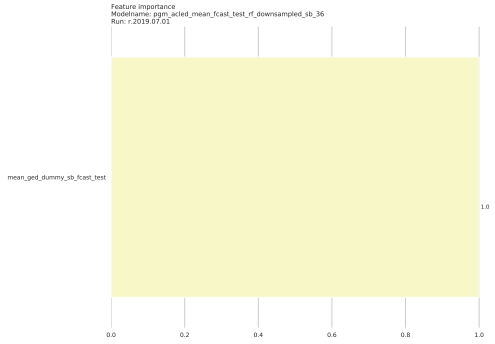
(a) 1 month



(b) 6 months

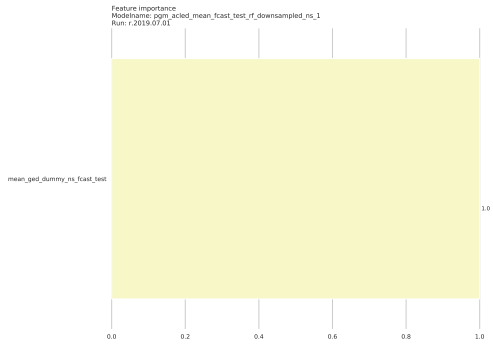


(c) 12 months

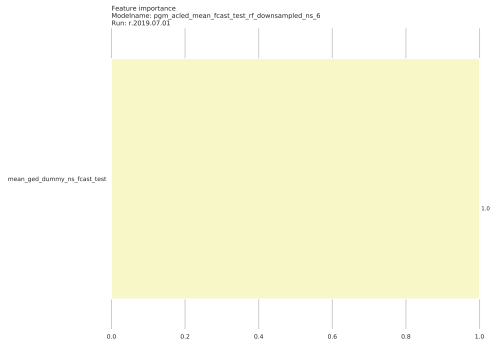


(d) 36 months

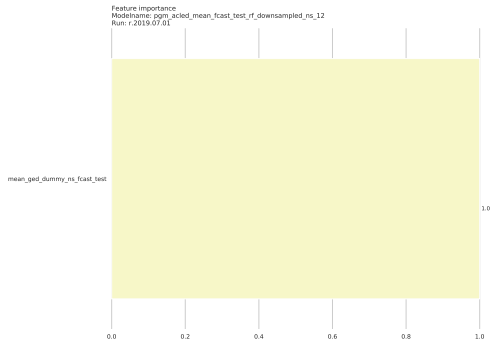
4.22.2 ns_fcast



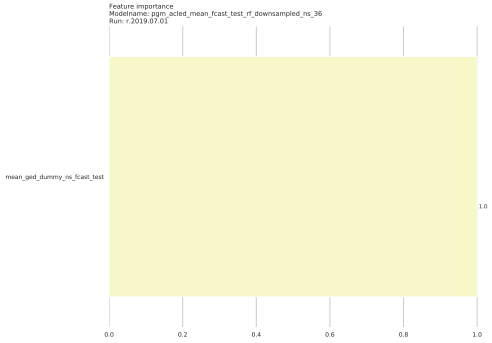
(a) 1 month



(b) 6 months

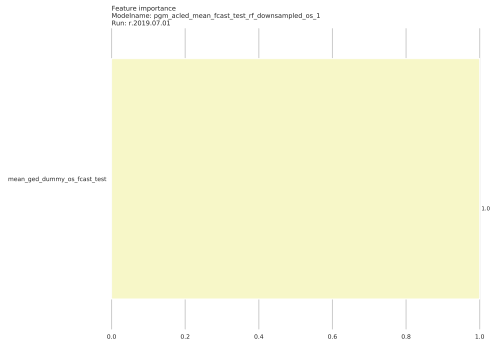


(c) 12 months

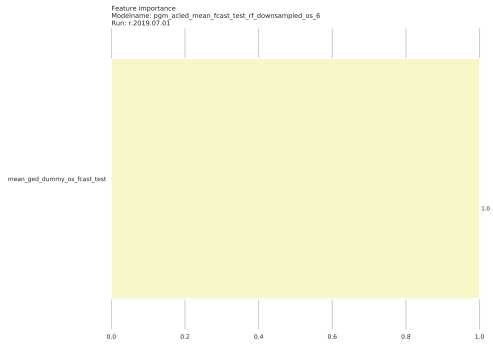


(d) 36 months

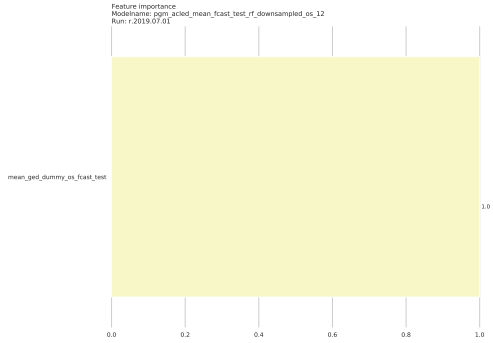
4.22.3 os_fcast



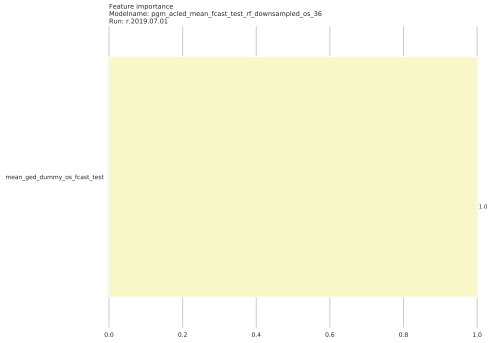
(a) 1 month



(b) 6 months

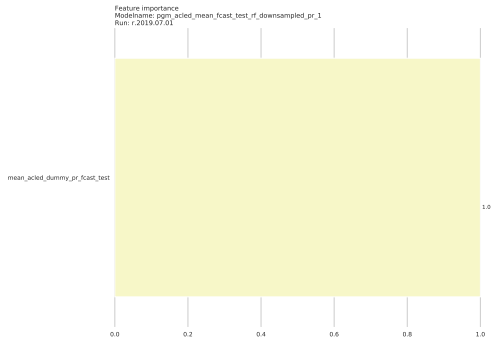


(c) 12 months

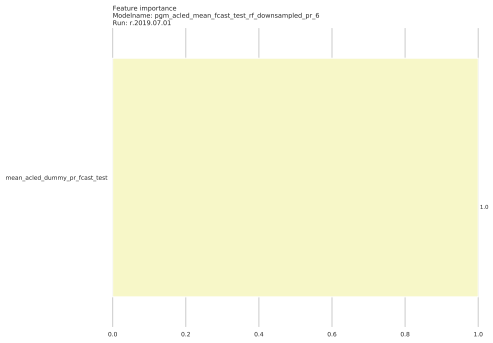


(d) 36 months

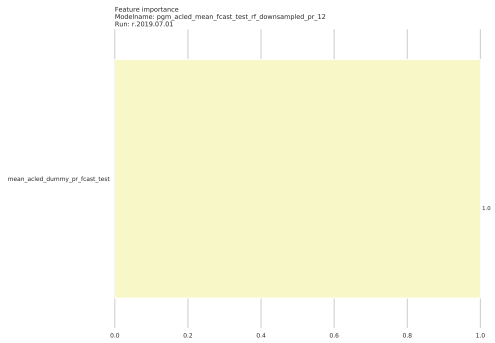
4.22.4 pr_fcast



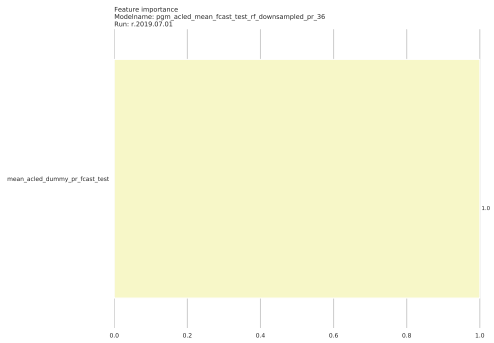
(a) 1 month



(b) 6 months

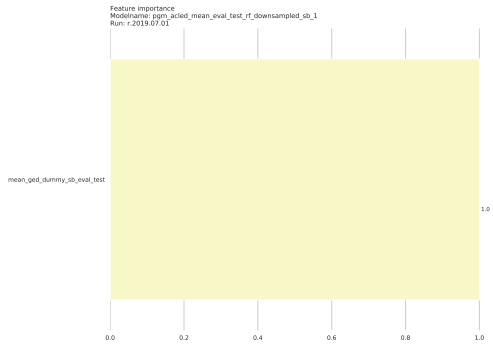


(c) 12 months

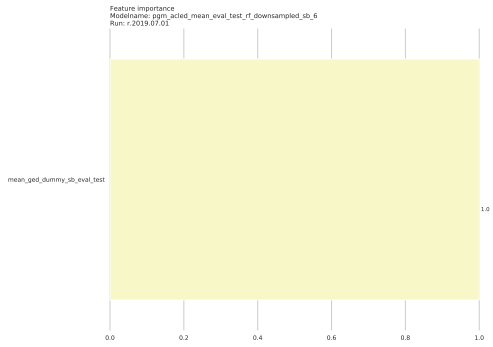


(d) 36 months

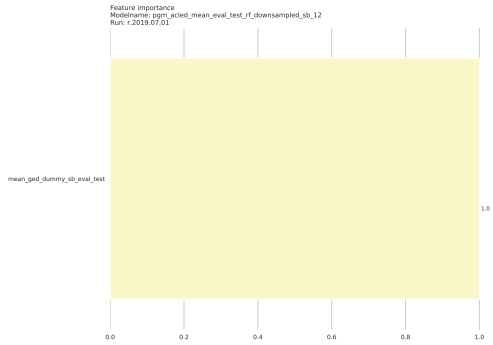
4.22.5 sb_eval



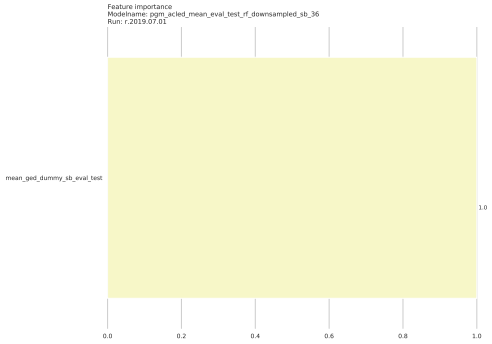
(a) 1 month



(b) 6 months

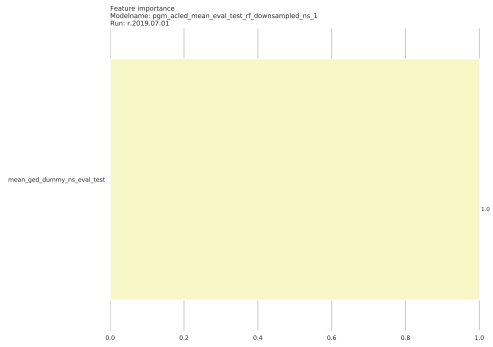


(c) 12 months

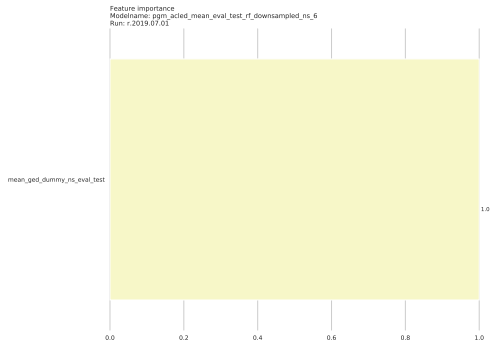


(d) 36 months

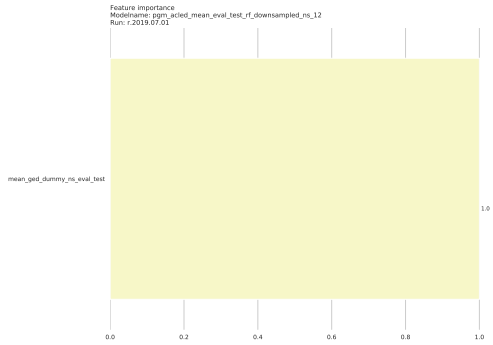
4.22.6 ns_eval



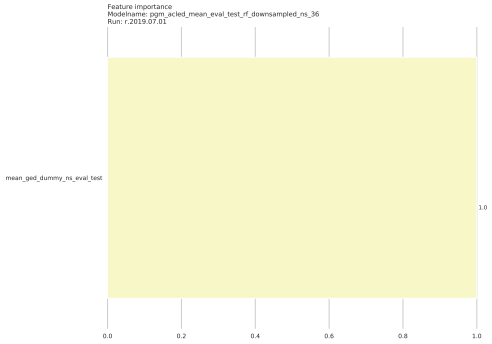
(a) 1 month



(b) 6 months

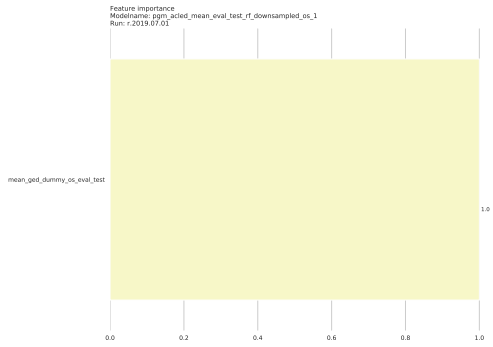


(c) 12 months

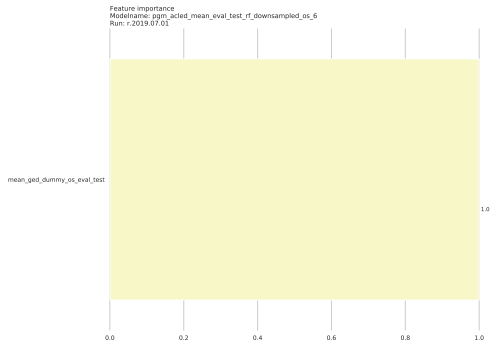


(d) 36 months

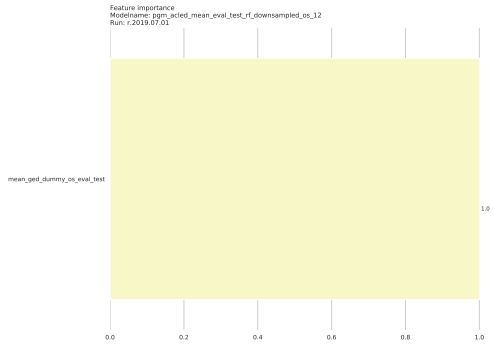
4.22.7 os_eval



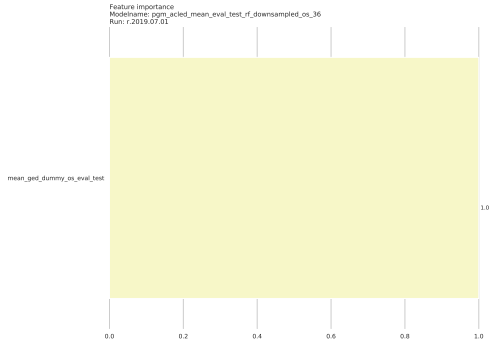
(a) 1 month



(b) 6 months

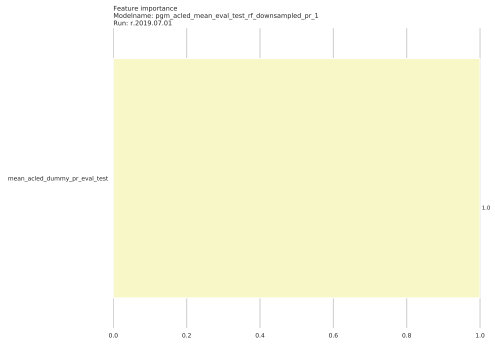


(c) 12 months

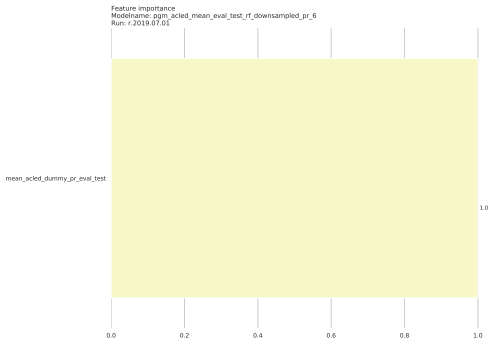


(d) 36 months

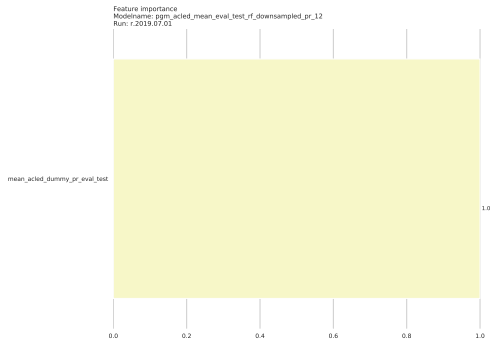
4.22.8 pr_eval



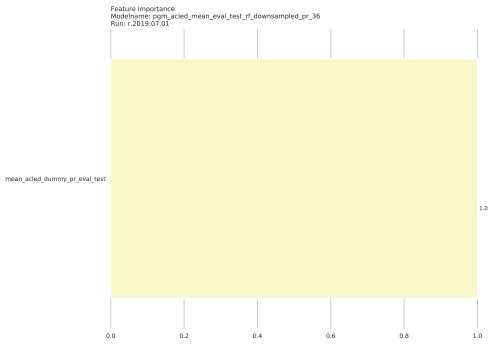
(a) 1 month



(b) 6 months



(c) 12 months



(d) 36 months

4.23 osa_pgm_acled_histonly_logit

4.23.1 sb_fcast

Dep. Variable:	ged_dummy_sb	**No. Observations:**	295446
Model:	Logit	**Df Residuals:**	295420
Method:	MLE	**Df Model:**	25
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.4920
Time:	04:04:52	**Log-Likelihood:**	-22764.
converged:	True	**LL-Null:**	-44811.

	coef	std err	z	P>|z|	[0.025	0.975]
l2_ged_dummy_sb	-0.1466	0.058	-2.522	0.012	-0.260	-0.033
l3_ged_dummy_sb	-0.0724	0.058	-1.250	0.211	-0.186	0.041
l4_ged_dummy_sb	-0.0292	0.058	-0.502	0.616	-0.143	0.085
l5_ged_dummy_sb	-0.0689	0.060	-1.154	0.248	-0.186	0.048
l6_ged_dummy_sb	0.1221	0.060	2.043	0.041	0.005	0.239
l7_ged_dummy_sb	0.1207	0.060	2.017	0.044	0.003	0.238
l8_ged_dummy_sb	0.2737	0.061	4.518	0.000	0.155	0.392
l9_ged_dummy_sb	0.1862	0.062	2.986	0.003	0.064	0.308
l10_ged_dummy_sb	0.2726	0.062	4.362	0.000	0.150	0.395
l11_ged_dummy_sb	0.3617	0.063	5.716	0.000	0.238	0.486
l12_ged_dummy_sb	0.3497	0.064	5.442	0.000	0.224	0.476
q_1_1_l2_ged_dummy_sb	0.2894	0.029	9.980	0.000	0.233	0.346
q_1_1_l3_ged_dummy_sb	0.2165	0.029	7.570	0.000	0.160	0.273
l1_ged_dummy_sb	-0.1875	0.058	-3.216	0.001	-0.302	-0.073
l1_ged_dummy_ns	-0.2773	0.209	-1.329	0.184	-0.686	0.132
l1_ged_dummy_os	-0.1802	0.094	-1.927	0.054	-0.363	0.003
l1_acled_dummy_pr	0.1403	0.096	1.466	0.143	-0.047	0.328
decay_12_cw_ged_dummy_sb_0	4.5376	0.058	78.022	0.000	4.424	4.652
decay_12_cw_ged_dummy_ns_0	0.5457	0.108	5.038	0.000	0.333	0.758
decay_12_cw_ged_dummy_os_0	1.3994	0.066	21.276	0.000	1.270	1.528
decay_12_cw_acled_dummy_pr_0	0.8752	0.066	13.221	0.000	0.745	1.005
q_1_1_l1_ged_dummy_sb	0.4685	0.028	16.455	0.000	0.413	0.524
q_1_1_l1_ged_dummy_ns	-0.1037	0.084	-1.240	0.215	-0.268	0.060
q_1_1_l1_ged_dummy_os	0.0227	0.034	0.659	0.510	-0.045	0.090
q_1_1_l1_acled_dummy_pr	-0.0584	0.034	-1.733	0.083	-0.125	0.008
Intercept	-4.6995	0.019	-241.862	0.000	-4.738	-4.661

4.23.2 ns_fcast

Dep. Variable:	ged_dummy_ns	**No. Observations:**	289211
Model:	Logit	**Df Residuals:**	289185
Method:	MLE	**Df Model:**	25
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.3611
Time:	04:04:21	**Log-Likelihood:**	-11838.
converged:	True	**LL-Null:**	-18527.

	coef	std err	z	P>|z|	[0.025	0.975]
l2_ged_dummy_ns	-0.2966	0.104	-2.844	0.004	-0.501	-0.092
l3_ged_dummy_ns	-0.2421	0.109	-2.228	0.026	-0.455	-0.029
l4_ged_dummy_ns	0.2001	0.109	1.839	0.066	-0.013	0.413
l5_ged_dummy_ns	0.0155	0.111	0.140	0.889	-0.202	0.233
l6_ged_dummy_ns	-0.0455	0.112	-0.406	0.685	-0.265	0.174
l7_ged_dummy_ns	0.0998	0.119	0.842	0.400	-0.133	0.332
l8_ged_dummy_ns	0.3821	0.116	3.300	0.001	0.155	0.609
l9_ged_dummy_ns	0.4777	0.117	4.090	0.000	0.249	0.707
l10_ged_dummy_ns	0.4158	0.125	3.336	0.001	0.171	0.660
l11_ged_dummy_ns	0.3505	0.123	2.848	0.004	0.109	0.592
l12_ged_dummy_ns	0.3277	0.124	2.649	0.008	0.085	0.570
q_1_1_l2_ged_dummy_ns	0.4779	0.063	7.631	0.000	0.355	0.601
q_1_1_l3_ged_dummy_ns	0.4965	0.066	7.495	0.000	0.367	0.626
l1_ged_dummy_sb	-0.1003	0.158	-0.634	0.526	-0.411	0.210
l1_ged_dummy_ns	-0.0923	0.106	-0.866	0.386	-0.301	0.116
l1_ged_dummy_os	0.2099	0.154	1.364	0.173	-0.092	0.511
l1_acled_dummy_pr	-0.0850	0.110	-0.771	0.441	-0.301	0.131
decay_12_cw_ged_dummy_sb_0	1.1620	0.112	10.384	0.000	0.943	1.381
decay_12_cw_ged_dummy_ns_0	4.7423	0.101	46.822	0.000	4.544	4.941
decay_12_cw_ged_dummy_os_0	1.1401	0.110	10.338	0.000	0.924	1.356
decay_12_cw_acled_dummy_pr_0	1.3525	0.084	16.102	0.000	1.188	1.517
q_1_1_l1_ged_dummy_sb	-0.1460	0.057	-2.560	0.010	-0.258	-0.034
q_1_1_l1_ged_dummy_ns	0.8451	0.059	14.332	0.000	0.730	0.961
q_1_1_l1_ged_dummy_os	0.0362	0.058	0.624	0.532	-0.077	0.150
q_1_1_l1_acled_dummy_pr	0.2433	0.033	7.328	0.000	0.178	0.308
Intercept	-5.4329	0.028	-196.258	0.000	-5.487	-5.379

4.23.3 os_fcast

Dep. Variable:	ged_dummy_os	**No. Observations:**	292193
Model:	Logit	**Df Residuals:**	292167
Method:	MLE	**Df Model:**	25
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.4535
Time:	04:04:30	**Log-Likelihood:**	-17488.
converged:	True	**LL-Null:**	-32000.

	coef	std err	z	P>|z|	[0.025	0.975]
l2_ged_dummy_os	-0.0621	0.075	-0.827	0.408	-0.209	0.085
l3_ged_dummy_os	-0.0905	0.075	-1.203	0.229	-0.238	0.057
l4_ged_dummy_os	-0.0901	0.076	-1.183	0.237	-0.239	0.059
l5_ged_dummy_os	0.1539	0.076	2.021	0.043	0.005	0.303
l6_ged_dummy_os	0.1332	0.078	1.714	0.087	-0.019	0.285
l7_ged_dummy_os	0.0228	0.081	0.283	0.777	-0.135	0.181
l8_ged_dummy_os	0.0561	0.081	0.689	0.491	-0.104	0.216
l9_ged_dummy_os	0.0070	0.082	0.086	0.932	-0.153	0.167
l10_ged_dummy_os	0.2071	0.083	2.503	0.012	0.045	0.369
l11_ged_dummy_os	0.2376	0.083	2.873	0.004	0.076	0.400
l12_ged_dummy_os	0.0593	0.087	0.683	0.495	-0.111	0.229
q_1_1_l2_ged_dummy_os	0.2885	0.036	8.052	0.000	0.218	0.359
q_1_1_l3_ged_dummy_os	0.2563	0.036	7.170	0.000	0.186	0.326
l1_ged_dummy_sb	-0.0744	0.082	-0.902	0.367	-0.236	0.087
l1_ged_dummy_ns	-0.2771	0.174	-1.591	0.112	-0.619	0.064
l1_ged_dummy_os	-0.1571	0.076	-2.071	0.038	-0.306	-0.008
l1_acled_dummy_pr	0.0786	0.092	0.859	0.390	-0.101	0.258
decay_12_cw_ged_dummy_sb_0	1.9984	0.068	29.309	0.000	1.865	2.132
decay_12_cw_ged_dummy_ns_0	1.2295	0.101	12.155	0.000	1.031	1.428
decay_12_cw_ged_dummy_os_0	3.7276	0.076	48.941	0.000	3.578	3.877
decay_12_cw_acled_dummy_pr_0	1.3708	0.068	20.155	0.000	1.237	1.504
q_1_1_l1_ged_dummy_sb	0.1217	0.031	3.926	0.000	0.061	0.182
q_1_1_l1_ged_dummy_ns	0.3118	0.068	4.585	0.000	0.179	0.445
q_1_1_l1_ged_dummy_os	0.5214	0.035	14.729	0.000	0.452	0.591
q_1_1_l1_acled_dummy_pr	0.0589	0.032	1.860	0.063	-0.003	0.121
Intercept	-5.0260	0.023	-223.304	0.000	-5.070	-4.982

4.23.4 pr_fcast

Dep. Variable:	acled_dummy_pr	**No. Observations:**	308410
Model:	Logit	**Df Residuals:**	308384
Method:	MLE	**Df Model:**	25
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.5231
Time:	04:04:36	**Log-Likelihood:**	-41081.
converged:	True	**LL-Null:**	-86142.

	coef	std err	z	P>|z|	[0.025	0.975]
l2_acled_dummy_pr	-0.0865	0.038	-2.291	0.022	-0.161	-0.012
l3_acled_dummy_pr	0.0863	0.038	2.284	0.022	0.012	0.160
l4_acled_dummy_pr	0.0618	0.038	1.632	0.103	-0.012	0.136
l5_acled_dummy_pr	0.1836	0.038	4.815	0.000	0.109	0.258
l6_acled_dummy_pr	0.2791	0.038	7.262	0.000	0.204	0.354
l7_acled_dummy_pr	0.3365	0.039	8.701	0.000	0.261	0.412
l8_acled_dummy_pr	0.2881	0.039	7.413	0.000	0.212	0.364
l9_acled_dummy_pr	0.3322	0.039	8.467	0.000	0.255	0.409
l10_acled_dummy_pr	0.4883	0.039	12.365	0.000	0.411	0.566
l11_acled_dummy_pr	0.5645	0.040	14.237	0.000	0.487	0.642
l12_acled_dummy_pr	0.5016	0.040	12.478	0.000	0.423	0.580
q_1_1_l2_acled_dummy_pr	0.1999	0.020	10.141	0.000	0.161	0.239
q_1_1_l3_acled_dummy_pr	0.1040	0.019	5.429	0.000	0.066	0.142
l1_ged_dummy_sb	-0.3610	0.105	-3.447	0.001	-0.566	-0.156
l1_ged_dummy_ns	0.0567	0.158	0.360	0.719	-0.252	0.366
l1_ged_dummy_os	-0.1012	0.118	-0.859	0.390	-0.332	0.130
l1_acled_dummy_pr	-0.1570	0.038	-4.137	0.000	-0.231	-0.083
decay_12_cw_ged_dummy_sb_0	0.8705	0.069	12.586	0.000	0.735	1.006
decay_12_cw_ged_dummy_ns_0	0.5854	0.085	6.924	0.000	0.420	0.751
decay_12_cw_ged_dummy_os_0	0.5009	0.073	6.854	0.000	0.358	0.644
decay_12_cw_acled_dummy_pr_0	4.4566	0.039	115.495	0.000	4.381	4.532
q_1_1_l1_ged_dummy_sb	0.0213	0.038	0.562	0.574	-0.053	0.095
q_1_1_l1_ged_dummy_ns	-0.0937	0.061	-1.540	0.123	-0.213	0.026
q_1_1_l1_ged_dummy_os	-0.0014	0.044	-0.032	0.974	-0.088	0.085
q_1_1_l1_acled_dummy_pr	0.3549	0.019	18.676	0.000	0.318	0.392
Intercept	-4.0544	0.014	-283.695	0.000	-4.082	-4.026

4.23.5 sb_eval

Dep. Variable:	ged_dummy_sb	**No. Observations:**	249432
Model:	Logit	**Df Residuals:**	249406
Method:	MLE	**Df Model:**	25
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.4809
Time:	03:52:06	**Log-Likelihood:**	-18104.
converged:	True	**LL-Null:**	-34876.

	coef	std err	z	P>|z|	[0.025	0.975]
l2_ged_dummy_sb	-0.2019	0.067	-3.021	0.003	-0.333	-0.071
l3_ged_dummy_sb	-0.0505	0.067	-0.757	0.449	-0.181	0.080
l4_ged_dummy_sb	0.0207	0.067	0.309	0.758	-0.111	0.153
l5_ged_dummy_sb	-0.0566	0.069	-0.821	0.412	-0.192	0.079
l6_ged_dummy_sb	0.1510	0.070	2.159	0.031	0.014	0.288
l7_ged_dummy_sb	0.1068	0.070	1.525	0.127	-0.030	0.244
l8_ged_dummy_sb	0.3171	0.070	4.521	0.000	0.180	0.455
l9_ged_dummy_sb	0.1849	0.072	2.555	0.011	0.043	0.327
l10_ged_dummy_sb	0.3175	0.073	4.329	0.000	0.174	0.461
l11_ged_dummy_sb	0.3559	0.074	4.806	0.000	0.211	0.501
l12_ged_dummy_sb	0.3065	0.075	4.083	0.000	0.159	0.454
q_1_1_l2_ged_dummy_sb	0.3397	0.034	9.865	0.000	0.272	0.407
q_1_1_l3_ged_dummy_sb	0.2391	0.033	7.178	0.000	0.174	0.304
l1_ged_dummy_sb	-0.2711	0.068	-4.011	0.000	-0.404	-0.139
l1_ged_dummy_ns	-0.7812	0.262	-2.981	0.003	-1.295	-0.268
l1_ged_dummy_os	0.0885	0.112	0.789	0.430	-0.131	0.308
l1_acled_dummy_pr	-0.1669	0.126	-1.328	0.184	-0.413	0.079
decay_12_cw_ged_dummy_sb_0	4.5556	0.066	68.854	0.000	4.426	4.685
decay_12_cw_ged_dummy_ns_0	1.1709	0.129	9.093	0.000	0.919	1.423
decay_12_cw_ged_dummy_os_0	1.3686	0.075	18.153	0.000	1.221	1.516
decay_12_cw_acled_dummy_pr_0	0.9948	0.082	12.085	0.000	0.833	1.156
q_1_1_l1_ged_dummy_sb	0.5260	0.034	15.333	0.000	0.459	0.593
q_1_1_l1_ged_dummy_ns	-0.1346	0.112	-1.202	0.229	-0.354	0.085
q_1_1_l1_ged_dummy_os	0.0602	0.041	1.478	0.140	-0.020	0.140
q_1_1_l1_acled_dummy_pr	-0.0603	0.049	-1.229	0.219	-0.156	0.036
Intercept	-4.7543	0.022	-219.676	0.000	-4.797	-4.712

4.23.6 ns_eval

Dep. Variable:	ged_dummy_ns	**No. Observations:**	244449
Model:	Logit	**Df Residuals:**	244423
Method:	MLE	**Df Model:**	25
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.3316
Time:	03:51:18	**Log-Likelihood:**	-8743.9
converged:	True	**LL-Null:**	-13082.

	coef	std err	z	P>|z|	[0.025	0.975]
l2_ged_dummy_ns	-0.0442	0.126	-0.350	0.726	-0.291	0.203
l3_ged_dummy_ns	-0.3146	0.126	-2.489	0.013	-0.562	-0.067
l4_ged_dummy_ns	-0.1303	0.127	-1.029	0.304	-0.379	0.118
l5_ged_dummy_ns	0.1382	0.131	1.059	0.290	-0.118	0.394
l6_ged_dummy_ns	-0.1729	0.134	-1.293	0.196	-0.435	0.089
l7_ged_dummy_ns	0.0301	0.139	0.218	0.828	-0.241	0.302
l8_ged_dummy_ns	0.4843	0.134	3.624	0.000	0.222	0.746
l9_ged_dummy_ns	0.4950	0.134	3.700	0.000	0.233	0.757
l10_ged_dummy_ns	0.0431	0.149	0.289	0.773	-0.250	0.336
l11_ged_dummy_ns	0.3072	0.151	2.040	0.041	0.012	0.602
l12_ged_dummy_ns	0.5207	0.147	3.544	0.000	0.233	0.809
q_1_1_l2_ged_dummy_ns	0.4746	0.080	5.967	0.000	0.319	0.630
q_1_1_l3_ged_dummy_ns	0.4322	0.083	5.179	0.000	0.269	0.596
l1_ged_dummy_sb	-0.2859	0.195	-1.469	0.142	-0.668	0.096
l1_ged_dummy_ns	-0.1386	0.126	-1.099	0.272	-0.386	0.109
l1_ged_dummy_os	0.1604	0.186	0.863	0.388	-0.204	0.525
l1_acled_dummy_pr	-0.1823	0.148	-1.233	0.218	-0.472	0.108
decay_12_cw_ged_dummy_sb_0	0.9975	0.137	7.260	0.000	0.728	1.267
decay_12_cw_ged_dummy_ns_0	5.0154	0.121	41.339	0.000	4.778	5.253
decay_12_cw_ged_dummy_os_0	1.1010	0.135	8.130	0.000	0.836	1.366
decay_12_cw_acled_dummy_pr_0	1.4619	0.107	13.704	0.000	1.253	1.671
q_1_1_l1_ged_dummy_sb	-0.0832	0.083	-1.005	0.315	-0.245	0.079
q_1_1_l1_ged_dummy_ns	0.8359	0.078	10.780	0.000	0.684	0.988
q_1_1_l1_ged_dummy_os	0.0590	0.074	0.795	0.426	-0.086	0.204
q_1_1_l1_acled_dummy_pr	0.2302	0.049	4.726	0.000	0.135	0.326
Intercept	-5.5463	0.032	-173.875	0.000	-5.609	-5.484

4.23.7 os_eval

Dep. Variable:	ged_dummy_os	**No. Observations:**	246915
Model:	Logit	**Df Residuals:**	246889
Method:	MLE	**Df Model:**	25
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.4465
Time:	03:45:54	**Log-Likelihood:**	-13646.
converged:	True	**LL-Null:**	-24652.

	coef	std err	z	P>|z|	[0.025	0.975]
l2_ged_dummy_os	-0.1105	0.087	-1.265	0.206	-0.282	0.061
l3_ged_dummy_os	-0.1711	0.086	-1.980	0.048	-0.341	-0.002
l4_ged_dummy_os	-0.2021	0.087	-2.335	0.020	-0.372	-0.032
l5_ged_dummy_os	0.1163	0.088	1.316	0.188	-0.057	0.290
l6_ged_dummy_os	0.1075	0.089	1.205	0.228	-0.067	0.282
l7_ged_dummy_os	0.0039	0.091	0.043	0.965	-0.174	0.181
l8_ged_dummy_os	0.1492	0.093	1.604	0.109	-0.033	0.332
l9_ged_dummy_os	0.0406	0.094	0.434	0.664	-0.143	0.224
l10_ged_dummy_os	0.1155	0.095	1.219	0.223	-0.070	0.301
l11_ged_dummy_os	0.3819	0.096	3.995	0.000	0.195	0.569
l12_ged_dummy_os	0.0426	0.099	0.430	0.667	-0.151	0.237
q_1_1_l2_ged_dummy_os	0.4411	0.043	10.338	0.000	0.357	0.525
q_1_1_l3_ged_dummy_os	0.1852	0.041	4.487	0.000	0.104	0.266
l1_ged_dummy_sb	0.0098	0.096	0.102	0.919	-0.178	0.198
l1_ged_dummy_ns	0.0707	0.210	0.336	0.737	-0.342	0.483
l1_ged_dummy_os	-0.1312	0.088	-1.491	0.136	-0.304	0.041
l1_acled_dummy_pr	-0.2455	0.123	-1.995	0.046	-0.487	-0.004
decay_12_cw_ged_dummy_sb_0	1.9766	0.079	25.102	0.000	1.822	2.131
decay_12_cw_ged_dummy_ns_0	1.3040	0.120	10.834	0.000	1.068	1.540
decay_12_cw_ged_dummy_os_0	3.9599	0.087	45.448	0.000	3.789	4.131
decay_12_cw_acled_dummy_pr_0	1.3954	0.084	16.658	0.000	1.231	1.560
q_1_1_l1_ged_dummy_sb	0.0925	0.037	2.484	0.013	0.020	0.166
q_1_1_l1_ged_dummy_ns	0.4142	0.090	4.616	0.000	0.238	0.590
q_1_1_l1_ged_dummy_os	0.4868	0.041	11.940	0.000	0.407	0.567
q_1_1_l1_acled_dummy_pr	0.0034	0.048	0.070	0.944	-0.091	0.098
Intercept	-5.0863	0.025	-201.584	0.000	-5.136	-5.037

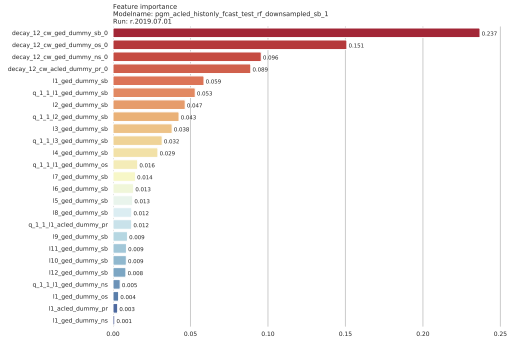
4.23.8 pr_eval

Dep. Variable:	acled_dummy_pr	**No. Observations:**	255567
Model:	Logit	**Df Residuals:**	255541
Method:	MLE	**Df Model:**	25
Date:	Fri, 28 Jun 2019	**Pseudo R-squ.:**	0.4926
Time:	03:51:26	**Log-Likelihood:**	-28492.
converged:	True	**LL-Null:**	-56152.

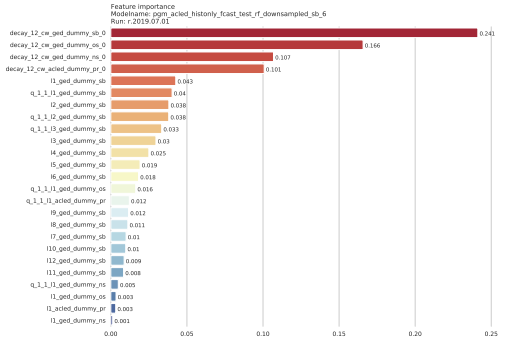
	coef	std err	z	P>|z|	[0.025	0.975]
l2_acled_dummy_pr	-0.0650	0.048	-1.340	0.180	-0.160	0.030
l3_acled_dummy_pr	0.0379	0.048	0.785	0.432	-0.057	0.132
l4_acled_dummy_pr	0.1671	0.049	3.414	0.001	0.071	0.263
l5_acled_dummy_pr	0.1858	0.049	3.788	0.000	0.090	0.282
l6_acled_dummy_pr	0.2732	0.049	5.533	0.000	0.176	0.370
l7_acled_dummy_pr	0.4252	0.050	8.447	0.000	0.327	0.524
l8_acled_dummy_pr	0.3993	0.051	7.802	0.000	0.299	0.500
l9_acled_dummy_pr	0.4577	0.052	8.802	0.000	0.356	0.560
l10_acled_dummy_pr	0.4882	0.052	9.354	0.000	0.386	0.591
l11_acled_dummy_pr	0.5092	0.053	9.636	0.000	0.406	0.613
l12_acled_dummy_pr	0.4835	0.054	9.021	0.000	0.378	0.589
q_1_1_l2_acled_dummy_pr	0.2516	0.029	8.748	0.000	0.195	0.308
q_1_1_l3_acled_dummy_pr	0.2217	0.028	8.005	0.000	0.167	0.276
l1_ged_dummy_sb	-0.2423	0.129	-1.882	0.060	-0.495	0.010
l1_ged_dummy_ns	-0.4393	0.201	-2.186	0.029	-0.833	-0.045
l1_ged_dummy_os	0.0209	0.149	0.140	0.889	-0.272	0.313
l1_acled_dummy_pr	-0.2170	0.048	-4.476	0.000	-0.312	-0.122
decay_12_cw_ged_dummy_sb_0	0.7831	0.085	9.215	0.000	0.617	0.950
decay_12_cw_ged_dummy_ns_0	0.9874	0.104	9.451	0.000	0.783	1.192
decay_12_cw_ged_dummy_os_0	0.6939	0.091	7.647	0.000	0.516	0.872
decay_12_cw_acled_dummy_pr_0	4.4971	0.048	93.176	0.000	4.403	4.592
q_1_1_l1_ged_dummy_sb	0.0244	0.048	0.508	0.612	-0.070	0.119
q_1_1_l1_ged_dummy_ns	0.0231	0.084	0.275	0.783	-0.141	0.188
q_1_1_l1_ged_dummy_os	0.0051	0.057	0.090	0.928	-0.106	0.117
q_1_1_l1_acled_dummy_pr	0.3570	0.027	13.090	0.000	0.304	0.410
Intercept	-4.2278	0.017	-250.927	0.000	-4.261	-4.195

4.24 osa_pgm_acled_histonly_rf

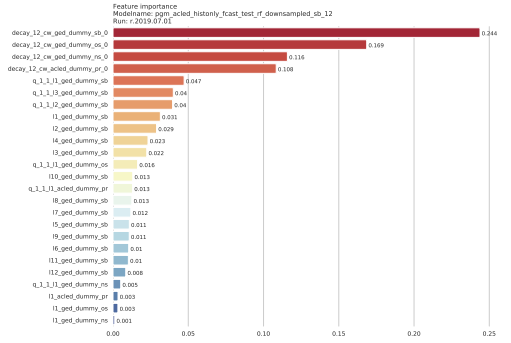
4.24.1 sb_fcast



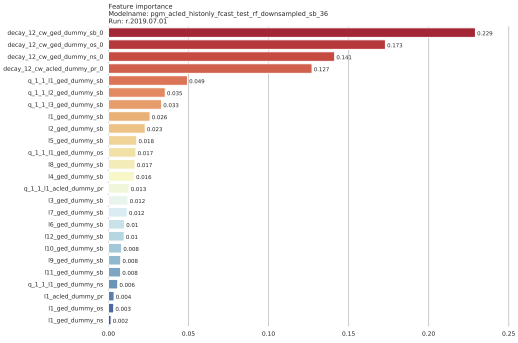
(a) 1 month



(b) 6 months

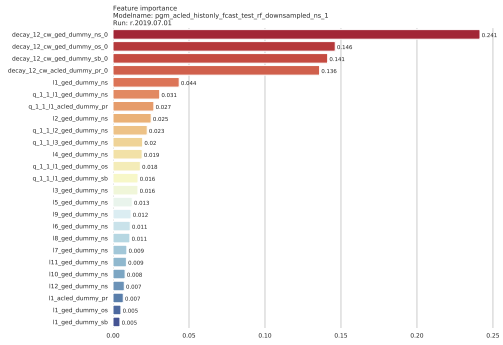


(c) 12 months

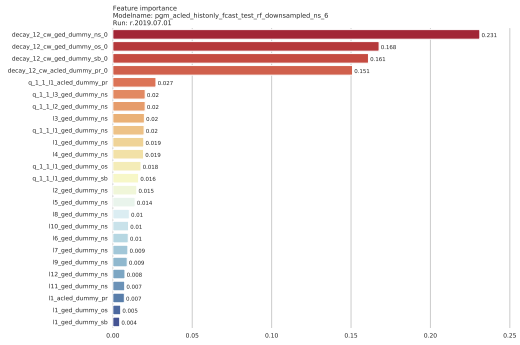


(d) 36 months

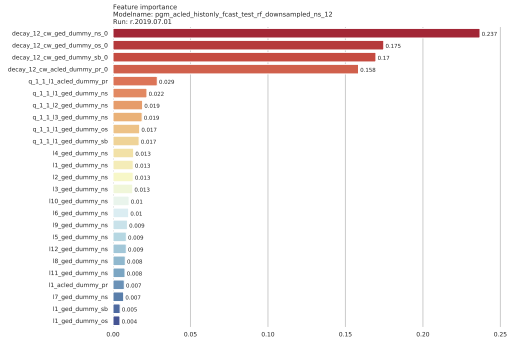
4.24.2 ns_fcast



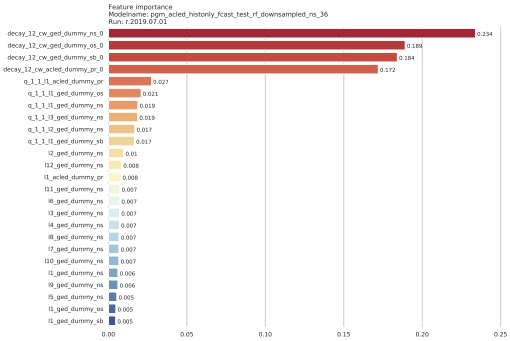
(a) 1 month



(b) 6 months

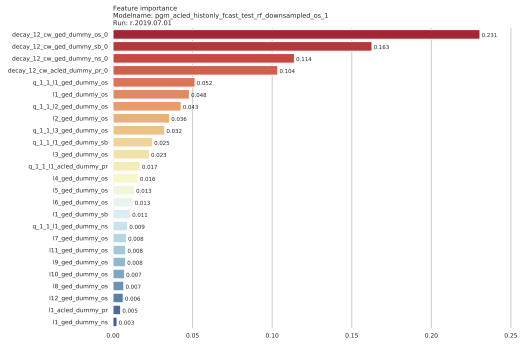


(c) 12 months

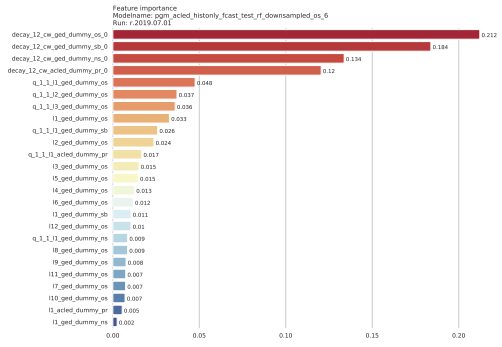


(d) 36 months

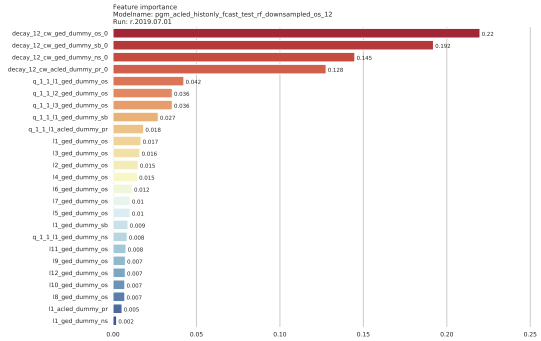
4.24.3 os_fcast



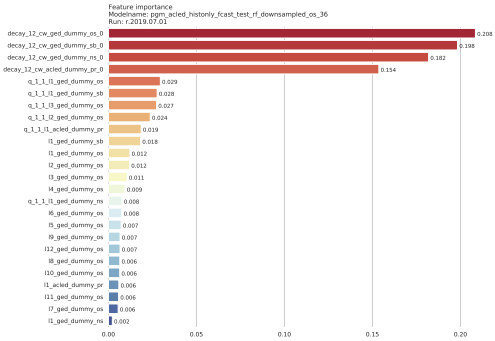
(a) 1 month



(b) 6 months

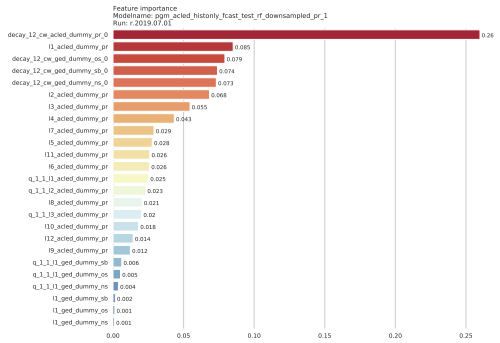


(c) 12 months

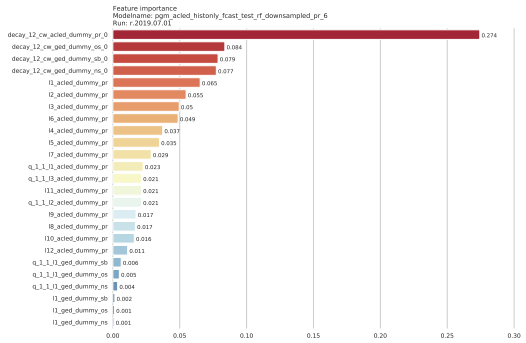


(d) 36 months

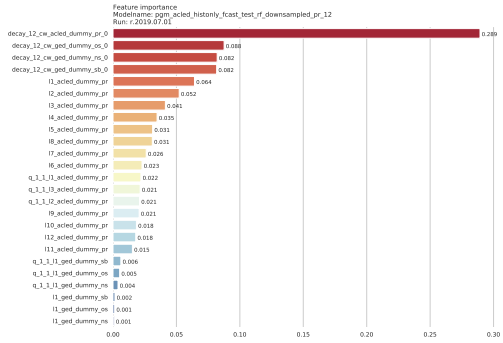
4.24.4 pr_fcast



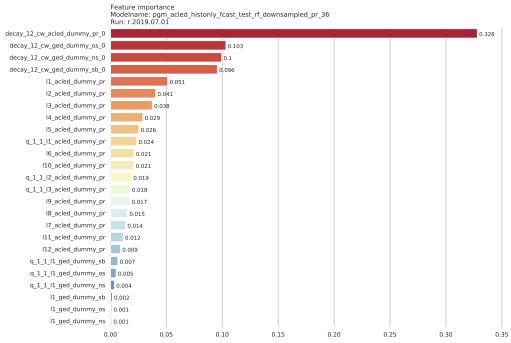
(a) 1 month



(b) 6 months

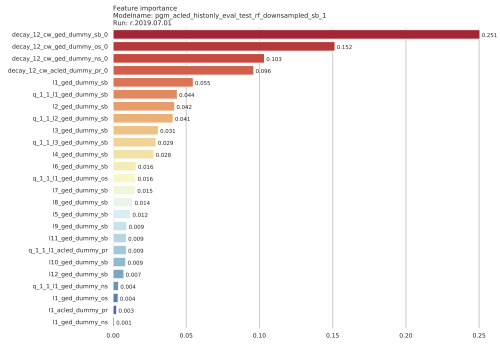


(c) 12 months

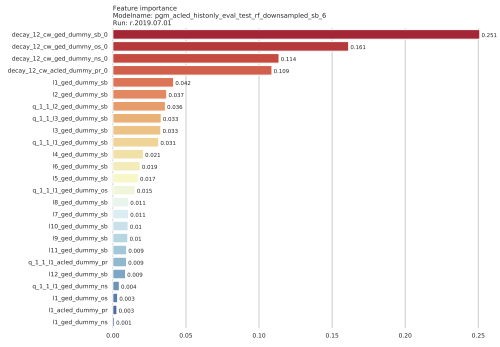


(d) 36 months

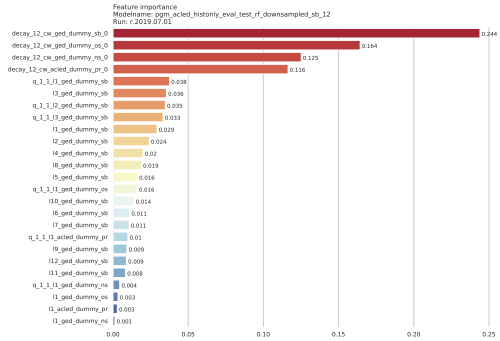
4.24.5 sb_eval



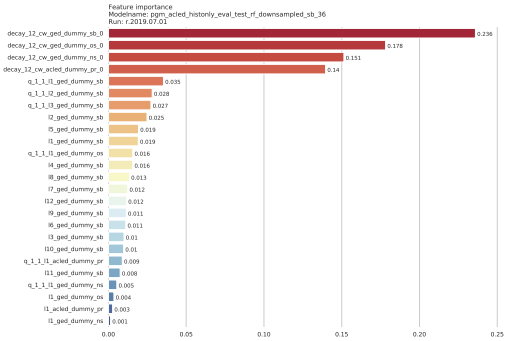
(a) 1 month



(b) 6 months

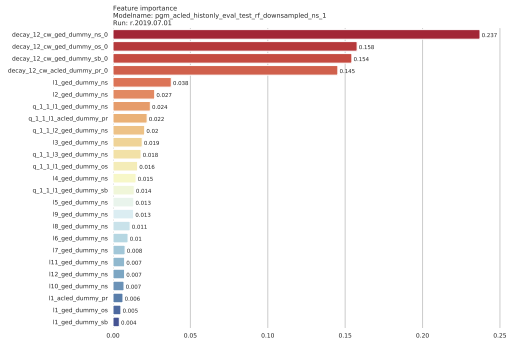


(c) 12 months

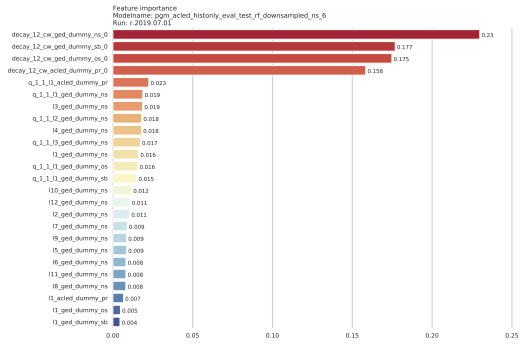


(d) 36 months

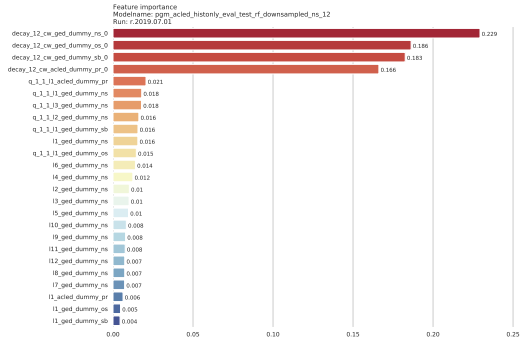
4.24.6 ns_eval



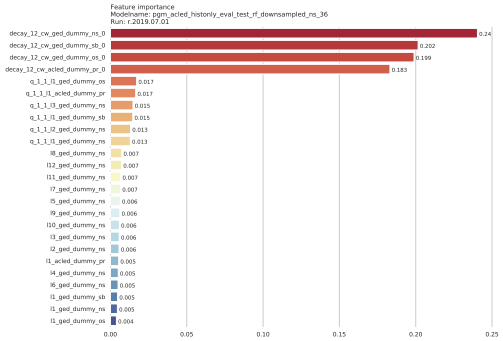
(a) 1 month



(b) 6 months

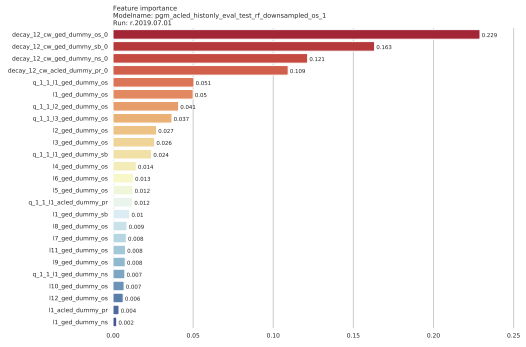


(c) 12 months

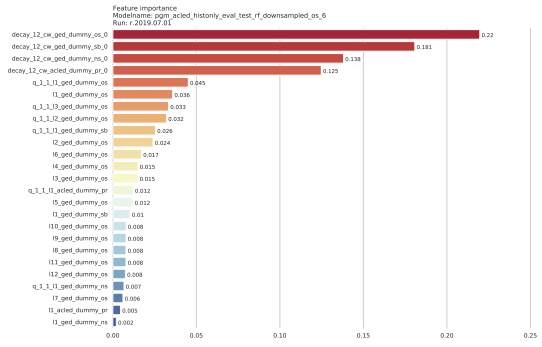


(d) 36 months

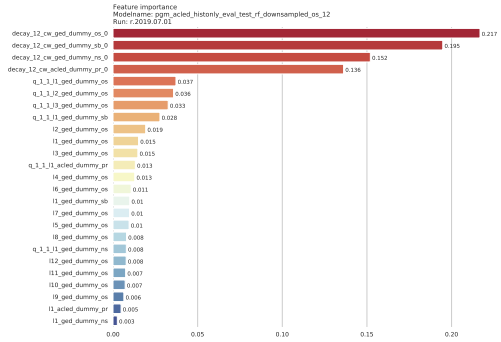
4.24.7 os_eval



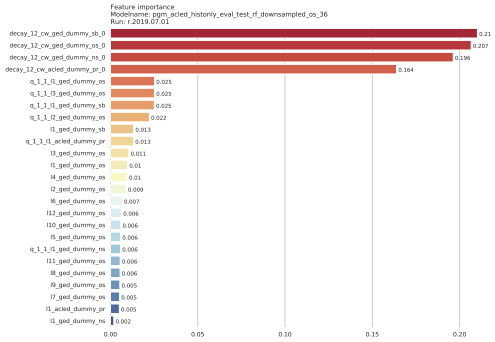
(a) 1 month



(b) 6 months

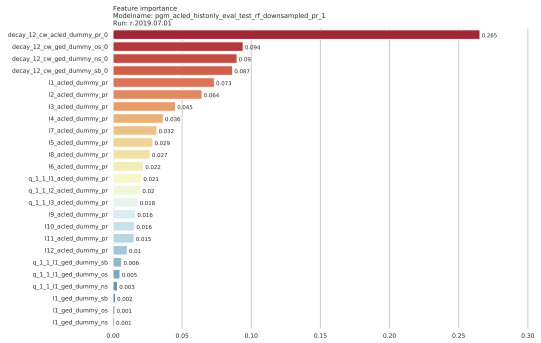


(c) 12 months

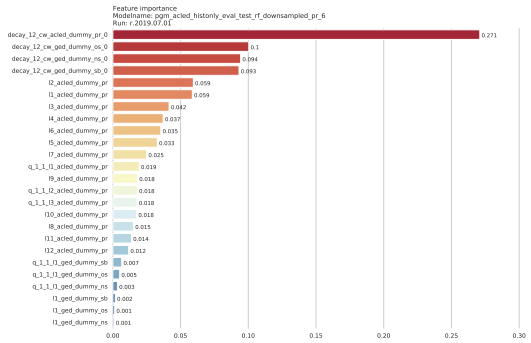


(d) 36 months

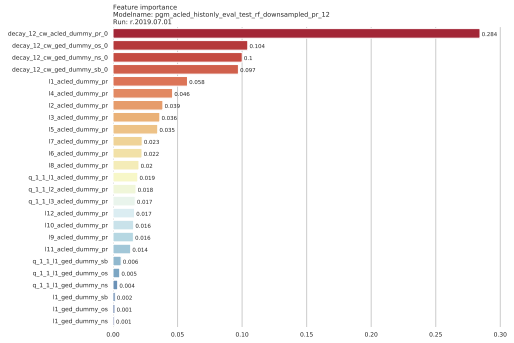
4.24.8 pr_eval



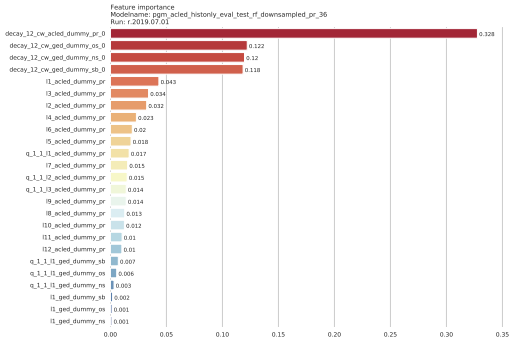
(a) 1 month



(b) 6 months



(c) 12 months



(d) 36 months