

Conclusion

Overall, the models improved in quality when more parameters were added. Additionally, including the interaction between using a specified move, Stealth Rock, and the inclusion of a specific Pokémon provided a more meaningful estimation of a player's likelihood to win a Pokémon battle. Overall, only one of the four entry hazards was not statistically significant across any model specifications. There is some evidence to support variability between different entry hazards, and the use of the moves Stealth Rock and Spikes contributed a positive marginal effect on a player's game outcome.

Nonetheless, there are a number of other points to bear in mind. For starters, interactions were only considered between a move and a Pokémon, not one move and another move. This means that only the marginal effect of using Stealth Rock or Spikes was considered, not the joint use of Stealth Rock and Spikes. Furthermore, while ranking was briefly touched upon, no comparisons were made between different groups on the basis of rank. It would be meaningful to see if the usefulness of entry hazards was extended to groups that are considered high ranking, though this would significantly reduce the number of observations drawn upon.

In regards to the missed opportunities associated with different interactions, there is one other elephant in the room: the Pokémon variables. While the models indicate whether one Pokémon has more wins or losses associated with its use, this is only a marginal effect being captured. Just as moves may interact or compound with the use of another move, so too can Pokémon. While including all combinations of six Pokémon would exhaust the degrees of freedom for the sample used, reducing the model to all combinations found in the sample would lend the data for more prescriptive use.

Additionally, only one Pokémon battling format is considered during the study. Just as it would be intriguing to see differences across rank, differences across battle format would lend greater external validity to the results found.

Appendix A: Summary Statistics

[illegible]

Summary Statistics					
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Statistic	N	Mean	St. Dev.	Min	Max

battleid	141,154	35,289.000	20,373.900	1	70,577
outcome	141,154	0.500	0.500	0	1
player	141,154	1.500	0.500	1	2
rank	141,154	1,153.971	128.737	1,000.000	1,810.277
b1	141,154	16.529	11.980	0	171
switches	133,920	6.696	4.457	1	99
M1	141,154	0.339	0.473	0	1
M2	141,154	0.069	0.254	0	1
M3	141,154	0.017	0.128	0	1
M4	141,154	0.016	0.126	0	1
M5	141,154	0.044	0.205	0	1
M6	141,154	0.040	0.196	0	1
M7	141,154	0.034	0.180	0	1
M8	141,154	0.000	0.000	0	0
M9	141,154	0.019	0.137	0	1
P1	141,154	0.008	0.087	0	1
P2	141,154	0.012	0.107	0	1
P3	141,154	0.003	0.051	0	1
P4	141,154	0.013	0.114	0	1
P5	141,154	0.014	0.118	0	1
P6	141,154	0.067	0.249	0	1
P7	141,154	0.006	0.076	0	1
P8	141,154	0.034	0.182	0	1
P9	141,154	0.009	0.092	0	1
P10	141,154	0.016	0.125	0	1
P11	141,154	0.010	0.099	0	1
P12	141,154	0.001	0.032	0	1
P13	141,154	0.025	0.155	0	1
P14	141,154	0.003	0.054	0	1
P15	141,154	0.001	0.033	0	1
P16	141,154	0.002	0.046	0	1
P17	141,154	0.001	0.026	0	1
P18	141,154	0.002	0.046	0	1
P19	141,154	0.002	0.049	0	1
P20	141,154	0.002	0.046	0	1
P21	141,154	0.003	0.053	0	1
P22	141,154	0.011	0.103	0	1
P23	141,154	0.105	0.307	0	1
P24	141,154	0.006	0.076	0	1
P25	141,154	0.002	0.046	0	1
P26	141,154	0.0001	0.010	0	1
P27	141,154	0.001	0.036	0	1
P28	141,154	0.001	0.028	0	1
P29	141,154	0.0004	0.019	0	1
P30	141,154	0.015	0.121	0	1
P31	141,154	0.001	0.029	0	1
P32	141,154	0.0004	0.020	0	1

P33	141,154	0.0005	0.022	0	1
P34	141,154	0.082	0.274	0	1
P35	141,154	0.022	0.148	0	1
P36	141,154	0.018	0.135	0	1
P37	141,154	0.002	0.039	0	1
P38	141,154	0.002	0.045	0	1
P39	141,154	0.074	0.262	0	1
P40	141,154	0.005	0.069	0	1
P41	141,154	0.002	0.040	0	1
P42	141,154	0.002	0.046	0	1
P43	141,154	0.003	0.052	0	1
P44	141,154	0.001	0.027	0	1
P45	141,154	0.0002	0.013	0	1
P46	141,154	0.002	0.044	0	1
P47	141,154	0.0005	0.022	0	1
P48	141,154	0.031	0.174	0	1
P49	141,154	0.020	0.140	0	1
P50	141,154	0.059	0.236	0	1
P51	141,154	0.139	0.346	0	1
P52	141,154	0.002	0.048	0	1
P53	141,154	0.0005	0.022	0	1
P54	141,154	0.010	0.101	0	1
P55	141,154	0.0001	0.012	0	1
P56	141,154	0.005	0.067	0	1
P57	141,154	0.002	0.044	0	1
P58	141,154	0.002	0.041	0	1
P59	141,154	0.102	0.303	0	1
P60	141,154	0.0004	0.019	0	1
P61	141,154	0.020	0.140	0	1
P62	141,154	0.005	0.067	0	1
P63	141,154	0.007	0.084	0	1
P64	141,154	0.001	0.032	0	1
P65	141,154	0.068	0.252	0	1
P66	141,154	0.0004	0.020	0	1
P67	141,154	0.005	0.072	0	1
P68	141,154	0.013	0.113	0	1
P69	141,154	0.008	0.091	0	1
P70	141,154	0.017	0.128	0	1
P71	141,154	0.001	0.036	0	1
P72	141,154	0.001	0.035	0	1
P73	141,154	0.018	0.133	0	1
P74	141,154	0.003	0.052	0	1
P75	141,154	0.0003	0.018	0	1
P76	141,154	0.001	0.037	0	1
P77	141,154	0.006	0.077	0	1
P78	141,154	0.0003	0.017	0	1
P79	141,154	0.042	0.200	0	1
P80	141,154	0.012	0.110	0	1
P81	141,154	0.008	0.089	0	1
P82	141,154	0.001	0.025	0	1
P83	141,154	0.015	0.120	0	1
P84	141,154	0.008	0.090	0	1

P85	141,154	0.007	0.084	0	1
P86	141,154	0.0002	0.014	0	1
P87	141,154	0.088	0.283	0	1
P88	141,154	0.007	0.085	0	1
P89	141,154	0.002	0.045	0	1
P90	141,154	0.002	0.039	0	1
P91	141,154	0.008	0.092	0	1
P92	141,154	0.001	0.025	0	1
P93	141,154	0.00002	0.005	0	1
P94	141,154	0.003	0.053	0	1
P95	141,154	0.005	0.072	0	1
P96	141,154	0.003	0.058	0	1
P97	141,154	0.0001	0.011	0	1
P98	141,154	0.006	0.080	0	1
P99	141,154	0.012	0.111	0	1
P100	141,154	0.001	0.026	0	1
P101	141,154	0.004	0.061	0	1
P102	141,154	0.002	0.049	0	1
P103	141,154	0.013	0.115	0	1
P104	141,154	0.012	0.107	0	1
P105	141,154	0.003	0.056	0	1
P106	141,154	0.026	0.159	0	1
P107	141,154	0.101	0.302	0	1
P108	141,154	0.002	0.046	0	1
P109	141,154	0.003	0.053	0	1
P110	141,154	0.0002	0.016	0	1
P111	141,154	0.0003	0.016	0	1
P112	141,154	0.015	0.121	0	1
P113	141,154	0.0004	0.021	0	1
P114	141,154	0.134	0.340	0	1
P115	141,154	0.003	0.056	0	1
P116	141,154	0.0001	0.011	0	1
P117	141,154	0.002	0.044	0	1
P118	141,154	0.010	0.101	0	1
P119	141,154	0.005	0.072	0	1
P120	141,154	0.017	0.129	0	1
P121	141,154	0.0001	0.008	0	1
P122	141,154	0.006	0.078	0	1
P123	141,154	0.001	0.031	0	1
P124	141,154	0.001	0.024	0	1
P125	141,154	0.0003	0.018	0	1
P126	141,154	0.028	0.165	0	1
P127	141,154	0.017	0.130	0	1
P128	141,154	0.001	0.031	0	1
P129	141,154	0.164	0.370	0	1
P130	141,154	0.057	0.232	0	1
P131	141,154	0.010	0.100	0	1
P132	141,154	0.119	0.324	0	1
P133	141,154	0.001	0.033	0	1
P134	141,154	0.0002	0.014	0	1
P135	141,154	0.003	0.056	0	1
P136	141,154	0.002	0.047	0	1

P137	141,154	0.001	0.030	0	1
P138	141,154	0.091	0.287	0	1
P139	141,154	0.001	0.034	0	1
P140	141,154	0.001	0.035	0	1
P141	141,154	0.001	0.030	0	1
P142	141,154	0.005	0.068	0	1
P143	141,154	0.002	0.047	0	1
P144	141,154	0.026	0.160	0	1
P145	141,154	0.001	0.025	0	1
P146	141,154	0.001	0.028	0	1
P147	141,154	0.0002	0.013	0	1
P148	141,154	0.001	0.037	0	1
P149	141,154	0.0003	0.017	0	1
P150	141,154	0.0002	0.013	0	1
P151	141,154	0.052	0.222	0	1
P152	141,154	0.002	0.041	0	1
P153	141,154	0.001	0.026	0	1
P154	141,154	0.016	0.125	0	1
P155	141,154	0.013	0.115	0	1
P156	141,154	0.0001	0.011	0	1
P157	141,154	0.134	0.341	0	1
P158	141,154	0.008	0.088	0	1
P159	141,154	0.025	0.155	0	1
P160	141,154	0.044	0.204	0	1
P161	141,154	0.003	0.054	0	1
P162	141,154	0.004	0.065	0	1
P163	141,154	0.003	0.056	0	1
P164	141,154	0.006	0.079	0	1
P165	141,154	0.002	0.039	0	1
P166	141,154	0.000	0.000	0	0
P167	141,154	0.008	0.089	0	1
P168	141,154	0.0002	0.014	0	1
P169	141,154	0.017	0.131	0	1
P170	141,154	0.001	0.026	0	1
P171	141,154	0.0001	0.010	0	1
P172	141,154	0.029	0.169	0	1
P173	141,154	0.007	0.086	0	1
P174	141,154	0.051	0.220	0	1
P175	141,154	0.023	0.150	0	1
P176	141,154	0.001	0.032	0	1
P177	141,154	0.001	0.038	0	1
P178	141,154	0.006	0.077	0	1
P179	141,154	0.0001	0.011	0	1
P180	141,154	0.001	0.030	0	1
P181	141,154	0.003	0.054	0	1
P182	141,154	0.054	0.227	0	1
P183	141,154	0.016	0.126	0	1
P184	141,154	0.002	0.047	0	1
P185	141,154	0.0001	0.008	0	1
P186	141,154	0.043	0.204	0	1
P187	141,154	0.002	0.041	0	1
P188	141,154	0.0003	0.018	0	1

P189	141,154	0.0001	0.012	0	1
P190	141,154	0.012	0.111	0	1
P191	141,154	0.002	0.046	0	1
P192	141,154	0.000	0.000	0	0
P193	141,154	0.000	0.000	0	0
P194	141,154	0.004	0.064	0	1
P195	141,154	0.008	0.089	0	1
P196	141,154	0.063	0.244	0	1
P197	141,154	0.091	0.287	0	1
P198	141,154	0.003	0.055	0	1
P199	141,154	0.001	0.034	0	1
P200	141,154	0.0003	0.018	0	1
P201	141,154	0.001	0.038	0	1
P202	141,154	0.002	0.049	0	1
P203	141,154	0.002	0.046	0	1
P204	141,154	0.002	0.047	0	1
P205	141,154	0.053	0.224	0	1
P206	141,154	0.021	0.145	0	1
P207	141,154	0.007	0.086	0	1
P208	141,154	0.0002	0.013	0	1
P209	141,154	0.001	0.028	0	1
P210	141,154	0.00005	0.007	0	1
P211	141,154	0.004	0.066	0	1
P212	141,154	0.012	0.109	0	1
P213	141,154	0.001	0.023	0	1
P214	141,154	0.001	0.025	0	1
P215	141,154	0.004	0.062	0	1
P216	141,154	0.003	0.050	0	1
P217	141,154	0.049	0.215	0	1
P218	141,154	0.006	0.075	0	1
P219	141,154	0.017	0.131	0	1
P220	141,154	0.049	0.217	0	1
P221	141,154	0.016	0.125	0	1
P222	141,154	0.044	0.204	0	1
P223	141,154	0.001	0.035	0	1
P224	141,154	0.0003	0.017	0	1
P225	141,154	0.002	0.041	0	1
P226	141,154	0.001	0.028	0	1
P227	141,154	0.001	0.033	0	1
P228	141,154	0.033	0.178	0	1
P229	141,154	0.002	0.042	0	1
P230	141,154	0.004	0.061	0	1
P231	141,154	0.004	0.061	0	1
P232	141,154	0.0004	0.021	0	1
P233	141,154	0.065	0.247	0	1
P234	141,154	0.0001	0.011	0	1
P235	141,154	0.041	0.199	0	1
P236	141,154	0.007	0.081	0	1
P237	141,154	0.0004	0.021	0	1
P238	141,154	0.025	0.155	0	1
P239	141,154	0.003	0.050	0	1
P240	141,154	0.0001	0.011	0	1

P241	141,154	0.0002	0.016	0	1
P242	141,154	0.004	0.063	0	1
P243	141,154	0.001	0.035	0	1
P244	141,154	0.00005	0.007	0	1
P245	141,154	0.0001	0.011	0	1
P246	141,154	0.001	0.029	0	1
P247	141,154	0.002	0.049	0	1
P248	141,154	0.001	0.032	0	1
P249	141,154	0.001	0.027	0	1
P250	141,154	0.017	0.128	0	1
P251	141,154	0.003	0.054	0	1
P252	141,154	0.014	0.116	0	1
P253	141,154	0.004	0.060	0	1
P254	141,154	0.001	0.029	0	1
P255	141,154	0.009	0.092	0	1
P256	141,154	0.001	0.029	0	1
P257	141,154	0.004	0.060	0	1
P258	141,154	0.0004	0.020	0	1
P259	141,154	0.003	0.056	0	1
P260	141,154	0.0003	0.017	0	1
P261	141,154	0.0002	0.014	0	1
P262	141,154	0.001	0.027	0	1
P263	141,154	0.002	0.039	0	1
P264	141,154	0.0001	0.010	0	1
P265	141,154	0.015	0.120	0	1
P266	141,154	0.001	0.035	0	1
P267	141,154	0.032	0.176	0	1
P268	141,154	0.00004	0.007	0	1
P269	141,154	0.023	0.149	0	1
P270	141,154	0.002	0.042	0	1
P271	141,154	0.008	0.089	0	1
P272	141,154	0.009	0.095	0	1
P273	141,154	0.001	0.035	0	1
P274	141,154	0.0001	0.009	0	1
P275	141,154	0.001	0.038	0	1
P276	141,154	0.0004	0.021	0	1
P277	141,154	0.002	0.043	0	1
P278	141,154	0.014	0.116	0	1
P279	141,154	0.000	0.000	0	0
P280	141,154	0.001	0.025	0	1
P281	141,154	0.005	0.071	0	1
P282	141,154	0.052	0.221	0	1
P283	141,154	0.001	0.038	0	1
P284	141,154	0.001	0.039	0	1
P285	141,154	0.001	0.032	0	1
P286	141,154	0.001	0.034	0	1
P287	141,154	0.001	0.028	0	1
P288	141,154	0.001	0.028	0	1
P289	141,154	0.001	0.037	0	1
P290	141,154	0.0002	0.013	0	1
P291	141,154	0.008	0.086	0	1
P292	141,154	0.001	0.032	0	1

P293	141,154	0.008	0.091	0	1
P294	141,154	0.00004	0.007	0	1
P295	141,154	0.012	0.107	0	1
P296	141,154	0.0005	0.021	0	1
P297	141,154	0.000	0.000	0	0
P298	141,154	0.000	0.000	0	0
P299	141,154	0.000	0.000	0	0
P300	141,154	0.000	0.000	0	0
P301	141,154	0.000	0.000	0	0
P302	141,154	0.066	0.248	0	1
P303	141,154	0.018	0.132	0	1
P304	141,154	0.003	0.054	0	1
P305	141,154	0.002	0.039	0	1
P306	141,154	0.002	0.042	0	1
P307	141,154	0.002	0.044	0	1
P308	141,154	0.025	0.157	0	1
P309	141,154	0.127	0.333	0	1
P310	141,154	0.015	0.120	0	1
P311	141,154	0.009	0.096	0	1
P312	141,154	0.001	0.030	0	1
P313	141,154	0.001	0.026	0	1
P314	141,154	0.007	0.084	0	1
P315	141,154	0.075	0.263	0	1
P316	141,154	0.0001	0.009	0	1
P317	141,154	0.001	0.030	0	1
P318	141,154	0.009	0.094	0	1
P319	141,154	0.002	0.047	0	1
P320	141,154	0.005	0.074	0	1
P321	141,154	0.002	0.046	0	1
P322	141,154	0.013	0.111	0	1
P323	141,154	0.007	0.083	0	1
P324	141,154	0.0001	0.010	0	1
P325	141,154	0.0003	0.017	0	1
P326	141,154	0.0002	0.012	0	1
P327	141,154	0.076	0.265	0	1
P328	141,154	0.001	0.029	0	1
P329	141,154	0.003	0.055	0	1
P330	141,154	0.060	0.237	0	1
P331	141,154	0.007	0.084	0	1
P332	141,154	0.006	0.076	0	1
P333	141,154	0.007	0.082	0	1
P334	141,154	0.0001	0.011	0	1
P335	141,154	0.019	0.138	0	1
P336	141,154	0.001	0.024	0	1
P337	141,154	0.001	0.024	0	1
P338	141,154	0.003	0.057	0	1
P339	141,154	0.001	0.027	0	1
P340	141,154	0.020	0.142	0	1
P341	141,154	0.079	0.270	0	1
P342	141,154	0.007	0.081	0	1
P343	141,154	0.002	0.041	0	1
P344	141,154	0.0004	0.020	0	1

P345	141,154	0.001	0.024	0	1
P346	141,154	0.011	0.105	0	1
P347	141,154	0.0002	0.012	0	1
P348	141,154	0.0004	0.019	0	1
P349	141,154	0.034	0.180	0	1
P350	141,154	0.001	0.024	0	1
P351	141,154	0.003	0.055	0	1
P352	141,154	0.001	0.035	0	1
P353	141,154	0.069	0.253	0	1
P354	141,154	0.126	0.332	0	1
P355	141,154	0.001	0.025	0	1
P356	141,154	0.004	0.063	0	1
P357	141,154	0.002	0.039	0	1
P358	141,154	0.020	0.140	0	1
P359	141,154	0.013	0.112	0	1
P360	141,154	0.001	0.033	0	1
P361	141,154	0.053	0.225	0	1
P362	141,154	0.000	0.000	0	0
P363	141,154	0.037	0.190	0	1
P364	141,154	0.001	0.035	0	1
P365	141,154	0.003	0.053	0	1
P366	141,154	0.001	0.031	0	1
P367	141,154	0.000	0.000	0	0
P368	141,154	0.005	0.071	0	1
P369	141,154	0.009	0.095	0	1
P370	141,154	0.008	0.091	0	1
P371	141,154	0.001	0.036	0	1
P372	141,154	0.007	0.082	0	1
P373	141,154	0.091	0.287	0	1
P374	141,154	0.006	0.078	0	1
P375	141,154	0.027	0.161	0	1
P376	141,154	0.001	0.023	0	1
P377	141,154	0.0002	0.014	0	1
P378	141,154	0.002	0.042	0	1
P379	141,154	0.001	0.036	0	1
P380	141,154	0.001	0.028	0	1
P381	141,154	0.016	0.126	0	1
P382	141,154	0.002	0.040	0	1
P383	141,154	0.072	0.258	0	1
P384	141,154	0.001	0.028	0	1
P385	141,154	0.00001	0.003	0	1
P386	141,154	0.022	0.148	0	1
P387	141,154	0.001	0.038	0	1
P388	141,154	0.001	0.026	0	1
P389	141,154	0.002	0.044	0	1
P390	141,154	0.002	0.040	0	1
P391	141,154	0.003	0.057	0	1
P392	141,154	0.001	0.031	0	1
P393	141,154	0.039	0.194	0	1
P394	141,154	0.0001	0.010	0	1
P395	141,154	0.0004	0.021	0	1
P396	141,154	0.002	0.042	0	1

P397	141,154	0.0002	0.015	0	1
P398	141,154	0.0002	0.013	0	1
P399	141,154	0.076	0.265	0	1
P400	141,154	0.006	0.077	0	1
P401	141,154	0.012	0.111	0	1
P402	141,154	0.0004	0.019	0	1
P403	141,154	0.001	0.027	0	1
P404	141,154	0.001	0.037	0	1
P405	141,154	0.00001	0.003	0	1
P406	141,154	0.0001	0.008	0	1
P407	141,154	0.00003	0.005	0	1
P408	141,154	0.003	0.054	0	1
P409	141,154	0.003	0.054	0	1
P410	141,154	0.003	0.052	0	1
P411	141,154	0.021	0.142	0	1
P412	141,154	0.001	0.035	0	1
P413	141,154	0.010	0.098	0	1
P414	141,154	0.00001	0.004	0	1
P415	141,154	0.006	0.077	0	1
M1	141,154	0.006	0.075	0	1
M2	141,154	0.011	0.103	0	1
M3	141,154	0.009	0.096	0	1
M4	141,154	0.008	0.090	0	1
M5	141,154	0.036	0.187	0	1
M6	141,154	0.034	0.182	0	1
M7	141,154	0.008	0.087	0	1
M8	141,154	0.002	0.042	0	1
M9	141,154	0.006	0.074	0	1
M10	141,154	0.015	0.121	0	1
M11	141,154	0.014	0.116	0	1
M12	141,154	0.002	0.049	0	1
M13	141,154	0.075	0.263	0	1
M14	141,154	0.060	0.238	0	1
M15	141,154	0.039	0.193	0	1
M16	141,154	0.026	0.159	0	1
M17	141,154	0.019	0.136	0	1
M18	141,154	0.047	0.212	0	1
M19	141,154	0.002	0.045	0	1
M20	141,154	0.027	0.162	0	1
M21	141,154	0.018	0.133	0	1
M22	141,154	0.006	0.078	0	1
M23	141,154	0.006	0.080	0	1
M24	141,154	0.008	0.087	0	1
M25	141,154	0.053	0.225	0	1
M26	141,154	0.041	0.199	0	1
M27	141,154	0.031	0.174	0	1
M28	141,154	0.054	0.226	0	1
M29	141,154	0.014	0.119	0	1
M30	141,154	0.032	0.176	0	1
M31	141,154	0.048	0.215	0	1
M32	141,154	0.021	0.143	0	1
M33	141,154	0.060	0.238	0	1

M34	141,154	0.006	0.078	0	1
M35	141,154	0.015	0.123	0	1
M36	141,154	0.004	0.065	0	1
M37	141,154	0.022	0.146	0	1
M38	141,154	0.019	0.136	0	1
M39	141,154	0.058	0.234	0	1

Appendix B: Model Summary

Models 2-6					
Dependent variable:					
Outcome					
	(2)	(3)	(4)	(5)	(6)
stealthrockcount	0.264*** (0.007)			0.202*** (0.008)	
st2					
spikescount	0.069*** (0.015)			0.034** (0.017)	0.038** (0.017)
sp2					
toxspikecount	-0.161*** (0.030)			-0.057* (0.033)	-0.051 (0.033)
toxsp2					
stickywebcount	-0.002 (0.027)			0.110*** (0.034)	0.137*** (0.035)
stw2					
defogcount	-0.034** (0.016)			-0.099*** (0.017)	-0.092*** (0.017)
fog2					
rapidspincoun	-0.055*** (0.017)			-0.088*** (0.018)	-0.078*** (0.018)
rapid2					
dragontailcount	-0.080*** (0.019)			-0.110*** (0.020)	-0.108*** (0.021)
dt2	-0.016 (0.025)			-0.045* (0.027)	-0.036 (0.027)
roarcount					
roar2					
whirlwindcount					
whirl2					
stAerodactyl					0.168*** (0.063)
stAggron					-0.017 (0.062)
stArcheops					0.174 (0.178)
stArmaldo					-0.160 (0.190)
stAurorus					0.220 (0.205)
stAzelf					0.196*** (0.069)
stBarbaracle					0.136 (0.194)
stBastiodon					0.011 (0.204)
stBibarel					-0.819* (0.496)
stBisharp					0.074*** (0.025)
stBlissey					-0.002 (0.055)
stBronzong					-0.148 (0.101)
stCamerupt					0.042 (0.156)
stCarbink					0.710*** (0.273)

stCarracosta	0.034 (0.200)
stCelebi	0.172*** (0.040)
stChansey	0.098*** (0.030)
stClaydol	0.206 (0.182)
stClefable	0.065*** (0.023)
stClefaury	-3.990 (18.120)
stCobalion	0.199* (0.111)
stCorsola	-3.540 (19.017)
stCradily	0.071 (0.111)
stCrustle	-0.046 (0.216)
stDiancie	0.062* (0.035)
stDonphan	0.182*** (0.058)
stDruidigon	0.032 (0.182)
stDugtrio	0.151* (0.079)
stDunsparce	0.546* (0.300)
stEmpoleon	0.064 (0.062)
stExcadrill	0.095*** (0.023)
stFerroseed	-0.414 (0.356)
stFerrothorn	0.096*** (0.020)
stForretress	0.064 (0.053)
stGabite	0.383 (0.436)
stGarchomp	0.125*** (0.019)
stGigalith	-0.288 (0.240)
stGligar	0.465* (0.244)
stGliscor	0.040 (0.025)
stGolem	0.046 (0.107)
stGolurk	-0.107 (0.180)
stHeatran	0.092*** (0.019)
stHippowdon	0.032 (0.034)
stInfernape	0.020 (0.043)
stJirachi	0.071** (0.031)
stKabutops	0.118 (0.098)
stKecleon	0.044 (0.175)
stKrokorok	
stKrookodile	0.119* (0.067)
stLunatone	0.334 (0.357)
stMagcargo	0.310 (0.297)
stMamoswine	-0.009 (0.052)
stMarowak	0.118 (0.193)
stMawile	0.676*** (0.262)
stMesprit	-0.345 (0.540)

stMetagross		0.064** (0.029)	
stMetang		-3.909 (16.922)	
stMew		0.052 (0.036)	
stMiltank		-0.305* (0.163)	
stMonferno			
stNidoking		0.047 (0.062)	
stNidoqueen		0.140 (0.132)	
stOmastar		0.036 (0.123)	
stPawniard		-0.123 (0.539)	
stPiloswine		-0.173 (0.206)	
stPinsir		0.068* (0.040)	
stPrinplup		-4.110 (36.576)	
stProbopass		-0.127 (0.189)	
stRampardos		-0.309 (0.235)	
stRegirock		0.131 (0.246)	
stRegisteel		-0.240 (0.186)	
stRelicanth		-0.852 (0.744)	
stRhydon		0.471** (0.235)	
stRhyperior		0.137 (0.089)	
stSandslash		0.223 (0.204)	
stSeismitoad		0.308*** (0.084)	
stShuckle		-0.001 (0.065)	
stSkarmory		0.034 (0.026)	
stSolrock		-0.154 (0.288)	
stSteelix		0.186** (0.090)	
stStunfisk		-0.238 (0.346)	
stSudowoodo		-0.281 (0.394)	
stSwampert		0.136*** (0.043)	
stTerrakion		0.124** (0.061)	
stTorkoal		0.147 (0.136)	
stTorterra		0.183 (0.128)	
stTyranitar		0.025 (0.025)	
stTyrantrum		0.018 (0.111)	
stUxie		0.145 (0.197)	
stWigglytuff		0.228 (0.383)	
stWormadamSandy		-0.119 (0.967)	
stWormadamTrash		0.007 (36.561)	
stWormadam			
Abomasnow	-0.173*** (0.043)	-0.139** (0.069)	-0.138** (0.070)
Absol	-0.097*** (0.032)	0.078 (0.075)	0.077 (0.075)
Accelgor	-0.186*** (0.069)	-0.178** (0.069)	-0.181*** (0.069)

Aerodactyl	-0.043 (0.030)	-0.024 (0.052)	-0.075 (0.059)
Aggron	-0.117*** (0.030)	-0.085* (0.043)	-0.072 (0.047)
Alakazam	-0.060*** (0.014)	-0.002 (0.019)	0.0002 (0.019)
Alomomola	-0.027 (0.045)	-0.027 (0.045)	-0.023 (0.045)
Altaria	-0.064*** (0.019)	-0.250*** (0.096)	-0.237** (0.095)
Ambipom	0.018 (0.038)	0.035 (0.038)	0.029 (0.038)
Amoonguss	0.072*** (0.028)	0.075*** (0.028)	0.082*** (0.028)
Ampharos	-0.165*** (0.035)	-0.345*** (0.069)	-0.343*** (0.069)
Arbok	-0.273** (0.119)	-0.220* (0.119)	-0.244** (0.120)
Arcanine	-0.047** (0.023)	-0.036 (0.023)	-0.043* (0.023)
Archeops	-0.258*** (0.072)	-0.254*** (0.072)	-0.305*** (0.082)
Ariados	-0.131 (0.109)	-0.150 (0.110)	-0.184* (0.110)
Armaldo	-0.021 (0.078)	-0.009 (0.078)	0.025 (0.088)
Aromatisse	-0.047 (0.129)	-0.022 (0.130)	-0.023 (0.130)
Articuno	-0.169** (0.077)	-0.133* (0.077)	-0.144* (0.078)
Audino	-0.068 (0.072)	0.148 (0.114)	0.114 (0.114)
Aurorus	-0.127 (0.081)	-0.113 (0.081)	-0.164* (0.090)
Avalugg	0.018 (0.065)	0.046 (0.065)	0.028 (0.066)
Azelf	0.070** (0.033)	0.007 (0.033)	-0.081 (0.055)
Azumarill	0.034*** (0.012)	0.035*** (0.012)	0.038*** (0.012)
Banette	-0.188*** (0.047)	-0.336** (0.138)	-0.350** (0.138)
Barbaracle	-0.051 (0.076)	-0.036 (0.076)	-0.067 (0.085)
Basculin	-0.390 (0.358)	-0.416 (0.359)	-0.464 (0.365)
Bastiodon	-0.305*** (0.100)	-0.330*** (0.100)	-0.312** (0.126)
Beartic	-0.059 (0.123)	-0.041 (0.124)	-0.046 (0.124)
Beautifly	-0.465** (0.221)	-0.440** (0.223)	-0.416* (0.222)
Beedrill	-0.099*** (0.029)	-0.094*** (0.030)	-0.089*** (0.030)
Beheeyem	-0.045 (0.126)	-0.028 (0.126)	-0.040 (0.126)
Bellossom	0.200 (0.179)	0.238 (0.179)	0.247 (0.180)
Bibarel	0.016 (0.160)	0.038 (0.160)	0.153 (0.173)
Bisharp	0.059*** (0.013)	0.048*** (0.013)	0.026 (0.016)
Blastoise	-0.067*** (0.024)	-0.022 (0.037)	-0.025 (0.037)
Blissey	-0.124*** (0.026)	-0.117*** (0.026)	-0.116*** (0.031)
Bouffalant	-0.191** (0.091)	-0.147 (0.092)	-0.149 (0.092)
Braviary	-0.056 (0.078)	-0.049 (0.078)	-0.041 (0.078)
Breloom	-0.065*** (0.013)	-0.054*** (0.013)	-0.054*** (0.013)
Bronzong	-0.024 (0.051)	-0.070 (0.051)	0.020 (0.065)
Butterfree	-0.191** (0.093)	-0.161* (0.093)	-0.159* (0.094)
Cacturne	-0.280*** (0.080)	-0.240*** (0.080)	-0.239*** (0.080)
Camerupt	-0.055 (0.067)	0.088 (0.147)	0.067 (0.149)
Carbink	-0.181 (0.132)	-0.200 (0.132)	-0.438** (0.171)

Carnivine	0.354 (0.265)	0.399 (0.266)	0.364 (0.268)
Carracosta	-0.267*** (0.080)	-0.248*** (0.080)	-0.258*** (0.089)
Castform	-0.276 (0.178)	-0.283 (0.179)	-0.270 (0.179)
Celebi	-0.092*** (0.020)	-0.082*** (0.020)	-0.141*** (0.025)
Chandelure	-0.018 (0.025)	0.002 (0.025)	-0.004 (0.025)
Chansey	-0.037** (0.015)	-0.037** (0.015)	-0.067*** (0.019)
Charizard	-0.101*** (0.011)	-0.298*** (0.036)	-0.296*** (0.036)
Chatot	-0.045 (0.076)	-0.047 (0.076)	-0.061 (0.077)
Cherrim	-0.237 (0.166)	-0.202 (0.167)	-0.214 (0.167)
Chesnaught	-0.042 (0.034)	-0.045 (0.035)	-0.047 (0.035)
Chimecho	0.136 (0.294)	0.287 (0.294)	0.214 (0.296)
Cinccino	-0.075 (0.052)	-0.070 (0.052)	-0.072 (0.052)
Clawitzer	-0.178** (0.079)	-0.155* (0.080)	-0.166** (0.080)
Claydol	0.020 (0.086)	-0.002 (0.086)	-0.060 (0.105)
Clefable	0.028** (0.012)	0.024** (0.012)	0.007 (0.015)
Clefairy	-0.294 (0.181)	-0.244 (0.181)	-0.205 (0.189)
Cloyster	-0.023 (0.025)	-0.008 (0.025)	-0.014 (0.025)
Cobalion	-0.113** (0.051)	-0.115** (0.052)	-0.174*** (0.062)
Cofagrigus	0.013 (0.041)	0.006 (0.041)	0.018 (0.042)
Combusken	-0.079 (0.110)	-0.056 (0.110)	-0.059 (0.110)
Conkeldurr	-0.030** (0.014)	-0.020 (0.014)	-0.019 (0.014)
Corsola	-0.336 (0.231)	-0.310 (0.230)	-0.323 (0.241)
Cradily	-0.176*** (0.053)	-0.182*** (0.053)	-0.193*** (0.065)
Crawdaunt	-0.008 (0.030)	-0.004 (0.031)	-0.004 (0.031)
Cresselia	-0.103*** (0.038)	-0.091** (0.038)	-0.092** (0.038)
Crobat	-0.021 (0.027)	-0.007 (0.027)	-0.010 (0.027)
Crustle	0.042 (0.099)	0.015 (0.099)	0.041 (0.119)
Cryogonal	-0.159 (0.105)	-0.131 (0.105)	-0.128 (0.105)
Darmanitan	-0.047* (0.026)	-0.037 (0.026)	-0.038 (0.026)
Dedenne	-0.180*** (0.067)	-0.159** (0.067)	-0.160** (0.067)
Delcatty	-0.082 (0.257)	-0.070 (0.257)	-0.098 (0.258)
Delibird	-0.080 (0.126)	-0.016 (0.127)	-0.028 (0.128)
Delphox	-0.078* (0.046)	-0.065 (0.046)	-0.073 (0.046)
Dewgong	-0.268 (0.210)	-0.264 (0.211)	-0.266 (0.211)
Diancie	-0.009 (0.018)	-0.096* (0.055)	-0.103* (0.057)
Diggersby	0.068** (0.031)	0.072** (0.031)	0.072** (0.031)
Ditto	-0.010 (0.039)	-0.016 (0.039)	-0.013 (0.039)
Dodrio	0.120 (0.140)	0.140 (0.140)	0.142 (0.140)
Donphan	0.072** (0.029)	0.056* (0.030)	0.0004 (0.038)
Doublade	-0.001 (0.038)	0.010 (0.038)	0.004 (0.038)
Dragalge	0.027 (0.041)	0.029 (0.042)	0.032 (0.042)

Dragonair	-0.318 (0.261)	-0.320 (0.262)	-0.336 (0.262)
Dragonite	-0.030** (0.012)	-0.022* (0.012)	-0.024* (0.012)
Drapion	-0.106** (0.041)	-0.087** (0.042)	-0.095** (0.042)
Drifblim	-0.001 (0.079)	-0.00001 (0.079)	-0.006 (0.079)
Druidigon	0.010 (0.090)	-0.017 (0.090)	-0.010 (0.118)
Dugtrio	0.092** (0.040)	0.086** (0.040)	0.050 (0.049)
Dunsparce	-0.075 (0.144)	-0.148 (0.145)	-0.343* (0.193)
Duosion	0.022 (0.787)	0.046 (0.789)	-0.107 (0.793)
Durant	-0.037 (0.066)	-0.025 (0.067)	-0.029 (0.067)
Dusclops	-0.050 (0.048)	-0.051 (0.048)	-0.047 (0.048)
Dusknoir	-0.091 (0.062)	-0.063 (0.062)	-0.078 (0.062)
Dustox	-0.302 (0.364)	-0.327 (0.364)	-0.286 (0.365)
Eelektross	-0.186*** (0.043)	-0.172*** (0.043)	-0.176*** (0.043)
Electivire	-0.072** (0.032)	-0.047 (0.032)	-0.055* (0.032)
Electrode	-0.191 (0.137)	-0.168 (0.137)	-0.179 (0.138)
Emboar	-0.087 (0.056)	-0.086 (0.057)	-0.085 (0.057)
Emolga	-0.215*** (0.074)	-0.206*** (0.075)	-0.199*** (0.075)
Empoleon	-0.017 (0.030)	-0.032 (0.030)	-0.038 (0.037)
Entei	0.102*** (0.033)	0.110*** (0.033)	0.113*** (0.033)
Escavalier	-0.063 (0.062)	-0.039 (0.062)	-0.059 (0.062)
Espeon	-0.012 (0.022)	-0.013 (0.022)	-0.016 (0.022)
Excadrill	0.067*** (0.012)	0.056*** (0.013)	0.030* (0.016)
Exeggutor	0.076 (0.077)	-0.076 (0.077)	-0.086 (0.078)
Exploud	0.062 (0.066)	0.075 (0.066)	0.084 (0.067)
Farfetchd	-0.198 (0.238)	-0.130 (0.239)	-0.134 (0.240)
Fearow	-0.046 (0.228)	-0.074 (0.229)	-0.079 (0.229)
Feraligatr	-0.055* (0.029)	-0.047 (0.030)	-0.048 (0.030)
Ferroseed	-0.080 (0.176)	-0.170 (0.176)	0.114 (0.298)
Ferrothorn	0.040*** (0.011)	0.010 (0.011)	-0.011 (0.014)
Flareon	-0.027 (0.067)	-0.016 (0.067)	-0.037 (0.067)
Fletchinder	-0.480 (0.357)	-0.363 (0.357)	-0.510 (0.368)
Floatzel	-0.160* (0.082)	-0.149* (0.083)	-0.155* (0.084)
Florges	-0.057* (0.034)	-0.041 (0.034)	-0.041 (0.035)
Flygon	-0.087* (0.048)	-0.069 (0.049)	-0.073 (0.049)
Forretress	-0.008 (0.027)	-0.052* (0.028)	-0.046 (0.040)
Fraxure	0.006 (0.405)	0.064 (0.405)	0.047 (0.405)
Froslax	0.034 (0.045)	0.032 (0.045)	0.030 (0.046)
Furfrou	-0.260** (0.115)	-0.194* (0.115)	-0.204* (0.115)
Furret	-0.400*** (0.155)	-0.394** (0.156)	-0.412*** (0.156)
Gabite	-0.012 (0.258)	-0.117 (0.257)	-0.173 (0.343)
Gallade	-0.086*** (0.021)	-0.160*** (0.058)	-0.156*** (0.058)

Galvantula	-0.006 (0.026)	-0.035 (0.031)	-0.057* (0.032)
Garbodor	-0.167 (0.109)	-0.210* (0.111)	-0.200* (0.111)
Garchomp	0.023** (0.010)	0.033*** (0.011)	-0.004 (0.013)
Gardevoir	-0.054*** (0.015)	-0.061* (0.032)	-0.057* (0.032)
Gastrodon	0.027 (0.034)	0.036 (0.035)	0.037 (0.035)
Gengar	-0.041*** (0.011)	-0.032*** (0.011)	-0.032*** (0.011)
Gigalith	-0.118 (0.108)	-0.131 (0.108)	-0.033 (0.128)
Girafarig	-0.240 (0.275)	-0.233 (0.276)	-0.206 (0.277)
Glaceon	-0.276*** (0.065)	-0.247*** (0.066)	-0.251*** (0.066)
Glalie	-0.095 (0.074)	-0.073 (0.199)	-0.074 (0.199)
Gligar	0.021 (0.114)	0.001 (0.115)	-0.135 (0.141)
Gliscor	-0.046*** (0.012)	-0.043*** (0.012)	-0.054*** (0.015)
Gogoat	-0.364*** (0.108)	-0.359*** (0.109)	-0.365*** (0.109)
Golbat	0.086 (0.107)	0.085 (0.107)	0.094 (0.107)
Golduck	-0.216* (0.126)	-0.213* (0.126)	-0.226* (0.126)
Golem	-0.018 (0.051)	-0.047 (0.052)	-0.047 (0.063)
Golurk	-0.052 (0.073)	-0.037 (0.074)	-0.011 (0.083)
Goodra	0.020 (0.022)	0.030 (0.022)	0.031 (0.022)
Gorebyss	-0.048 (0.140)	-0.070 (0.141)	-0.092 (0.141)
Gothitelle	-0.036 (0.120)	-0.042 (0.121)	-0.051 (0.121)
Gourgeist	0.137 (0.269)	0.132 (0.270)	0.132 (0.271)
Granbull	-0.116 (0.092)	-0.096 (0.092)	-0.099 (0.093)
Grumpig	-0.044 (0.219)	0.024 (0.220)	0.030 (0.222)
Gurdurr	-0.077 (0.257)	-0.049 (0.257)	-0.095 (0.257)
Gyarados	-0.007 (0.016)	0.023 (0.022)	0.022 (0.022)
Hariyama	-0.181** (0.089)	-0.164* (0.089)	-0.184** (0.089)
Haunter	-0.103 (0.149)	-0.111 (0.149)	-0.101 (0.150)
Hawlucha	-0.063** (0.028)	-0.050* (0.028)	-0.054** (0.028)
Haxorus	-0.026 (0.030)	-0.019 (0.030)	-0.022 (0.030)
Heatmor	-0.504 (0.338)	-0.433 (0.338)	-0.401 (0.338)
Heatran	0.057*** (0.011)	0.039*** (0.011)	0.017 (0.014)
Heliolisk	-0.082** (0.039)	-0.072* (0.040)	-0.080** (0.040)
Heracross	0.005 (0.022)	0.046 (0.041)	0.049 (0.041)
Hippowdon	0.047*** (0.017)	0.024 (0.017)	0.027 (0.025)
Hitmonchan	-0.154** (0.066)	-0.161** (0.066)	-0.159** (0.066)
Hitmonlee	-0.078 (0.053)	-0.079 (0.054)	-0.076 (0.054)
Hitmontop	-0.007 (0.061)	0.011 (0.062)	-0.001 (0.062)
Honchkrow	-0.062 (0.044)	-0.049 (0.044)	-0.043 (0.044)
Hoopa	-0.164* (0.091)	-0.137 (0.091)	-0.153* (0.091)
HoopaU			
Houndoom	-0.118*** (0.039)	-0.130* (0.078)	-0.135* (0.078)

Huntail	-0.072 (0.244)	-0.109 (0.245)	-0.069 (0.246)
Hydreigon	0.012 (0.026)	0.010 (0.026)	0.015 (0.026)
Hypno	-0.061 (0.142)	-0.056 (0.142)	-0.067 (0.142)
Illumise	0.019 (0.331)	0.026 (0.332)	0.010 (0.332)
Infernape	-0.041** (0.021)	-0.049** (0.021)	-0.045* (0.025)
Jellicent	-0.088** (0.040)	-0.099** (0.040)	-0.092** (0.040)
Jirachi	0.059*** (0.016)	0.045*** (0.016)	0.030 (0.021)
Jolteon	-0.067*** (0.024)	-0.063*** (0.024)	-0.064*** (0.024)
Jumpuff	-0.002 (0.116)	-0.018 (0.116)	-0.011 (0.116)
Jynx	-0.172* (0.097)	-0.157 (0.097)	-0.157 (0.097)
Kabutops	0.057 (0.049)	0.058 (0.049)	0.021 (0.057)
Kadabra	-1.118*** (0.413)	-1.007** (0.416)	-1.013** (0.415)
Kangaskhan	-0.028 (0.125)	-0.007 (0.125)	-0.040 (0.128)
Kecleon	-0.096 (0.067)	-0.075 (0.067)	-0.092 (0.074)
Keldeo	0.058*** (0.016)	0.047*** (0.016)	0.052*** (0.016)
Kingdra	-0.042 (0.031)	-0.046 (0.031)	-0.042 (0.031)
Kingler	0.096 (0.079)	0.090 (0.079)	0.102 (0.079)
Klang	0.010 (0.481)	0.052 (0.484)	0.067 (0.485)
Klefki	0.042** (0.017)	0.040** (0.018)	0.042** (0.018)
Klinklang	0.035 (0.092)	0.025 (0.092)	0.014 (0.093)
Kricketune	-0.517** (0.202)	-0.509** (0.203)	-0.512** (0.204)
Krokorok	-0.338 (0.327)	-0.263 (0.325)	-0.254 (0.340)
Krookodile	-0.048 (0.032)	-0.050 (0.032)	-0.077** (0.038)
Kyurem	-0.080 (0.078)	-0.075 (0.078)	-0.071 (0.078)
KyuremB			
LandorusT			
Lanturn	-0.010 (0.054)	0.004 (0.054)	0.009 (0.054)
Lapras	-0.227*** (0.040)	-0.192*** (0.041)	-0.200*** (0.041)
Latias	0.034** (0.015)	0.041*** (0.016)	0.054*** (0.015)
Latios	0.036*** (0.013)	0.055*** (0.013)	0.066*** (0.013)
Leafeon	-0.147** (0.067)	-0.132** (0.067)	-0.149** (0.067)
Leavanny	0.054 (0.103)	0.020 (0.104)	0.004 (0.104)
Ledian	-0.418** (0.208)	-0.389* (0.210)	-0.379* (0.210)
Lickilicky	-0.125 (0.099)	-0.085 (0.099)	-0.079 (0.099)
Liepard	0.067 (0.073)	0.094 (0.074)	0.093 (0.074)
Lilligant	-0.212*** (0.076)	-0.203*** (0.076)	-0.210*** (0.076)
Linoone	-0.077 (0.075)	-0.042 (0.075)	-0.054 (0.075)
Lopunny	0.007 (0.016)	-0.284*** (0.079)	-0.277*** (0.079)
Lucario	-0.098*** (0.024)	-0.077*** (0.024)	-0.080*** (0.024)
Ludicolo	-0.063 (0.042)	-0.048 (0.042)	-0.047 (0.042)
Lumineon	-0.092 (0.311)	0.030 (0.312)	0.042 (0.312)

Lunatone	-0.270* (0.153)	-0.202 (0.154)	-0.292 (0.181)
Luvdisc	-0.245 (0.527)	-0.285 (0.527)	-0.293 (0.526)
Luxray	-0.281*** (0.055)	-0.254*** (0.055)	-0.252*** (0.056)
Machop	0.001 (0.032)	0.009 (0.032)	0.005 (0.032)
Machoke	-0.139 (0.191)	-0.151 (0.192)	-0.139 (0.193)
Magcargo	-0.227 (0.159)	-0.251 (0.160)	-0.342* (0.198)
Magmortar	-0.067 (0.056)	-0.060 (0.056)	-0.060 (0.057)
Magneton	0.052 (0.070)	0.049 (0.070)	0.063 (0.070)
Magnezone	-0.008 (0.016)	-0.017 (0.016)	-0.010 (0.016)
Malamar	-0.075 (0.046)	-0.066 (0.046)	-0.072 (0.046)
Mamoswine	0.070*** (0.026)	0.048* (0.026)	0.074** (0.034)
Manaphy	0.068*** (0.016)	0.057*** (0.016)	0.059*** (0.016)
Mandibuzz	0.075*** (0.027)	0.097*** (0.028)	0.096*** (0.028)
Manectric	-0.007 (0.017)	-0.088 (0.061)	-0.088 (0.061)
Mantine	-0.179* (0.101)	-0.153 (0.101)	-0.161 (0.102)
Maractus	-0.071 (0.245)	-0.080 (0.246)	-0.097 (0.248)
Marowak	-0.176** (0.084)	-0.182** (0.084)	-0.200** (0.097)
Masquerain	-0.078 (0.146)	-0.114 (0.147)	-0.144 (0.147)
Mawile	-0.318*** (0.107)	-0.330*** (0.108)	-0.466*** (0.123)
Medicham	0.008 (0.020)	-0.107 (0.074)	-0.111 (0.074)
Meganium	-0.173** (0.086)	-0.177** (0.087)	-0.194** (0.087)
Meloetta	0.051 (0.056)	0.061 (0.056)	0.067 (0.056)
Meowstic	-0.069 (0.059)	-0.050 (0.059)	-0.071 (0.059)
Mesprit	-0.310* (0.168)	-0.275 (0.168)	-0.250 (0.178)
Metagross	-0.013 (0.014)	-0.031 (0.029)	-0.043 (0.031)
Metang	-0.419 (0.351)	-0.406 (0.350)	-0.150 (0.395)
Mew	-0.022 (0.017)	-0.012 (0.017)	-0.023 (0.021)
Mienshao	-0.097** (0.043)	-0.088** (0.043)	-0.091** (0.043)
Mightyena	-0.168 (0.178)	-0.157 (0.178)	-0.140 (0.179)
Milotic	-0.022 (0.023)	-0.012 (0.023)	-0.010 (0.023)
Miltank	-0.123* (0.069)	-0.131* (0.070)	-0.049 (0.079)
Minun	-0.990** (0.409)	-1.005** (0.412)	-1.053** (0.419)
Misdreavus	-0.298 (0.225)	-0.307 (0.225)	-0.298 (0.226)
Mismagius	-0.008 (0.055)	-0.019 (0.055)	-0.018 (0.055)
Moltres	-0.146 (0.099)	-0.120 (0.099)	-0.130 (0.099)
Monferno	0.031 (0.529)	-0.021 (0.529)	-0.033 (0.530)
Mothim	-0.474 (0.386)	-0.451 (0.386)	-0.500 (0.386)
MrMime	0.036 (0.118)	0.057 (0.119)	0.047 (0.119)
Muk	-0.198*** (0.073)	-0.189** (0.073)	-0.201*** (0.074)
Murkrow	-0.033 (0.105)	-0.029 (0.106)	-0.013 (0.106)
Musharna	0.131 (0.124)	0.160 (0.124)	0.163 (0.125)

Nidoking	0.010 (0.027)	0.018 (0.027)	0.003 (0.031)
Nidoqueen	0.002 (0.063)	-0.019 (0.063)	-0.052 (0.079)
Ninetales	-0.051* (0.031)	-0.023 (0.031)	-0.026 (0.031)
Ninjask	-0.232*** (0.057)	-0.195*** (0.057)	-0.203*** (0.058)
Noctowl	0.026 (0.127)	-0.013 (0.128)	0.017 (0.127)
Noivern	-0.053 (0.038)	-0.044 (0.038)	-0.049 (0.038)
Octillery	0.403*** (0.126)	0.423*** (0.127)	0.415*** (0.127)
Omastar	-0.010 (0.058)	-0.010 (0.058)	-0.012 (0.071)
Pachirisu	-0.085 (0.190)	-0.067 (0.190)	-0.096 (0.191)
Pangoro	-0.028 (0.062)	-0.022 (0.062)	-0.013 (0.063)
Parasect	-0.114 (0.207)	-0.088 (0.208)	-0.114 (0.208)
Pawniard	0.283 (0.261)	0.194 (0.261)	0.282 (0.326)
Pelipper	0.051 (0.137)	0.123 (0.137)	0.104 (0.138)
Persian	-0.099 (0.098)	-0.101 (0.099)	-0.093 (0.099)
Phione	-0.145 (0.348)	-0.154 (0.348)	-0.099 (0.357)
Pidgeot	-0.063** (0.029)	-0.151 (0.100)	-0.150 (0.101)
Piloswine	0.088 (0.102)	0.006 (0.103)	0.162 (0.162)
Pinsir	-0.004 (0.020)	-0.140 (0.103)	-0.164 (0.104)
Plusle	4.530 (14.898)	4.499 (14.802)	4.518 (14.196)
Politoed	0.057* (0.031)	0.071** (0.033)	0.063* (0.033)
Poliwrath	-0.371*** (0.085)	-0.347*** (0.085)	-0.355*** (0.085)
PorygonZ	-0.065* (0.039)	-0.061 (0.039)	-0.067* (0.039)
Porygon2	0.005 (0.036)	0.021 (0.036)	0.022 (0.036)
Primeape	-0.068 (0.103)	-0.035 (0.103)	-0.048 (0.104)
Prinplup	-0.217 (0.422)	-0.222 (0.424)	-0.090 (0.443)
Probopass	0.181* (0.097)	0.136 (0.097)	0.211* (0.127)
Purugly	-0.134 (0.236)	-0.144 (0.236)	-0.152 (0.237)
Pyroar	-0.028 (0.086)	-0.029 (0.086)	-0.037 (0.087)
Quagsire	0.013 (0.030)	0.024 (0.030)	0.021 (0.030)
Quilladin			
Qwilfish	-0.298** (0.145)	-0.275* (0.145)	-0.314** (0.146)
Raichu	-0.124** (0.050)	-0.075 (0.051)	-0.085* (0.051)
Raikou	0.021 (0.016)	0.018 (0.016)	0.027* (0.016)
Rampardos	-0.185* (0.100)	-0.161 (0.100)	-0.085 (0.113)
Rapidash	-0.141 (0.095)	-0.135 (0.095)	-0.141 (0.095)
Raticate	-0.095 (0.115)	-0.101 (0.115)	-0.103 (0.115)
Regice	0.179* (0.103)	0.199* (0.104)	0.204* (0.104)
Regigigas	-0.532*** (0.142)	-0.496*** (0.143)	-0.512*** (0.144)
Regirock	-0.079 (0.122)	-0.081 (0.122)	-0.130 (0.162)
Registeel	0.143 (0.093)	0.123 (0.093)	0.273** (0.129)
Relicanth	0.042 (0.256)	0.044 (0.257)	0.176 (0.281)

Reuniclus	0.031 (0.040)	0.027 (0.040)	0.029 (0.040)
Rhydon	-0.076 (0.106)	-0.074 (0.107)	-0.188 (0.127)
Rhyperior	-0.060 (0.039)	-0.052 (0.039)	-0.085* (0.045)
Roselia	-1.058* (0.623)	-1.090* (0.628)	-1.131* (0.630)
Roserade	-0.090*** (0.032)	-0.071** (0.033)	-0.081** (0.033)
Rotom	0.063 (0.167)	0.091 (0.167)	0.083 (0.168)
RotomC			
RotomF			
RotomH			
RotomS			
RotomW			
Sableye	-0.018 (0.015)	-0.013 (0.025)	-0.016 (0.025)
Salamence	-0.029 (0.026)	-0.016 (0.026)	-0.022 (0.026)
Samurott	-0.292*** (0.067)	-0.248*** (0.067)	-0.253*** (0.067)
Sandslash	-0.164* (0.090)	-0.158* (0.091)	-0.201* (0.106)
Sawk	-0.174** (0.085)	-0.139 (0.085)	-0.151* (0.086)
Sawsbuck	-0.207** (0.086)	-0.196** (0.086)	-0.224*** (0.086)
Sceptile	-0.182*** (0.023)	-0.152*** (0.048)	-0.157*** (0.048)
Scizor	0.054*** (0.011)	0.063*** (0.014)	0.069*** (0.014)
Scolipede	-0.038 (0.029)	-0.015 (0.029)	-0.022 (0.029)
Scrafty	-0.080** (0.036)	-0.070* (0.036)	-0.070* (0.036)
Scyther	-0.306*** (0.115)	-0.319*** (0.115)	-0.315*** (0.116)
Seaking	-0.004 (0.134)	-0.047 (0.135)	-0.011 (0.135)
Seismitoad	0.113*** (0.043)	0.076* (0.043)	-0.061 (0.061)
Serperior	-0.017 (0.013)	-0.011 (0.013)	-0.010 (0.013)
Servine	-0.910** (0.445)	-0.866* (0.443)	-0.890** (0.443)
Seviper	-0.137 (0.128)	-0.128 (0.128)	-0.107 (0.129)
Sharpedo	-0.077** (0.037)	-0.060 (0.064)	-0.067 (0.064)
Shaymin	0.020 (0.072)	0.012 (0.073)	0.020 (0.073)
Shedinja	-0.066 (0.050)	-0.047 (0.050)	-0.065 (0.051)
Shiftry	-0.282*** (0.077)	-0.281*** (0.077)	-0.279*** (0.078)
Shuckle	-0.043 (0.031)	-0.120*** (0.034)	-0.104** (0.041)
Sigilyph	-0.164*** (0.042)	-0.125*** (0.042)	-0.130*** (0.043)
Simipour	-0.804* (0.441)	-0.700 (0.451)	-0.699 (0.449)
Simisage	-0.104 (0.206)	-0.123 (0.207)	-0.106 (0.208)
Simisear	0.044 (0.320)	0.018 (0.323)	-0.003 (0.324)
Skarmory	0.056*** (0.013)	0.029** (0.015)	0.031* (0.019)
Skuntank	-0.132 (0.127)	-0.115 (0.127)	-0.109 (0.128)
Slaking	-0.189*** (0.063)	-0.180*** (0.064)	-0.181*** (0.064)
Slowbro	0.030** (0.015)	0.030* (0.017)	0.034** (0.017)
Slowking	0.040 (0.041)	0.047 (0.041)	0.050 (0.041)

Slurpuff	-0.085* (0.045)	-0.072 (0.045)	-0.073 (0.045)
Smeargle	-0.189*** (0.043)	-0.211*** (0.043)	-0.211*** (0.044)
Sneasel	0.708** (0.320)	0.625* (0.321)	0.718** (0.321)
Snorlax	-0.110*** (0.026)	-0.073*** (0.026)	-0.081*** (0.026)
Solrock	-0.010 (0.145)	-0.020 (0.146)	0.069 (0.183)
Spinda	-0.626*** (0.164)	-0.560*** (0.164)	-0.578*** (0.164)
Spiritomb	-0.003 (0.062)	0.018 (0.062)	0.017 (0.062)
Stantler	-0.041 (0.168)	-0.094 (0.169)	-0.109 (0.169)
Staraptor	-0.010 (0.024)	-0.002 (0.024)	-0.004 (0.024)
Starmie	0.042*** (0.013)	0.036*** (0.014)	0.046*** (0.014)
Steelix	-0.228*** (0.044)	-0.203*** (0.067)	-0.247*** (0.079)
Stoutland	-0.067 (0.087)	-0.053 (0.087)	-0.057 (0.087)
Stunfisk	-0.267 (0.173)	-0.292* (0.173)	-0.124 (0.244)
Sudowoodo	-0.536*** (0.158)	-0.544*** (0.159)	-0.486*** (0.178)
Suicune	-0.038 (0.032)	-0.018 (0.033)	-0.019 (0.033)
Sunflora	-0.157 (0.313)	-0.180 (0.315)	-0.195 (0.316)
Swalot	0.125 (0.183)	0.170 (0.183)	0.133 (0.183)
Swampert	-0.101*** (0.021)	-0.102*** (0.032)	-0.131*** (0.035)
Swanna	-0.402** (0.159)	-0.403** (0.159)	-0.424*** (0.160)
Swellow	-0.040 (0.064)	-0.032 (0.064)	-0.042 (0.064)
Swoobat	-0.298*** (0.101)	-0.287*** (0.101)	-0.277*** (0.101)
Sylveon	-0.052*** (0.014)	-0.047*** (0.014)	-0.042*** (0.014)
Talonflame	-0.013 (0.011)	-0.004 (0.011)	-0.003 (0.011)
Tangela	0.246* (0.146)	0.251* (0.147)	0.240 (0.147)
Tangrowth	-0.022 (0.054)	-0.024 (0.055)	-0.024 (0.055)
Tauros	-0.044 (0.089)	-0.065 (0.090)	-0.062 (0.090)
Tentacruel	0.021 (0.025)	0.032 (0.025)	0.038 (0.025)
Terrakion	0.001 (0.030)	-0.004 (0.031)	-0.042 (0.039)
Throh	-0.247** (0.116)	-0.230** (0.117)	-0.242** (0.117)
Thundurus	0.041*** (0.016)	0.038** (0.016)	0.041*** (0.016)
ThundurusT			
Togekiss	-0.045** (0.018)	-0.032* (0.018)	-0.032* (0.018)
Togetic	-0.050 (0.098)	-0.027 (0.098)	-0.023 (0.099)
Torkoal	0.025 (0.067)	-0.013 (0.067)	-0.035 (0.085)
Tornadus	0.091 (0.109)	0.121 (0.109)	0.109 (0.109)
TornadusT			
Torterra	-0.226*** (0.050)	-0.216*** (0.050)	-0.244*** (0.056)
Toxicroak	0.034 (0.037)	0.028 (0.037)	0.033 (0.037)
Trevenant	-0.115*** (0.039)	-0.110*** (0.039)	-0.111*** (0.039)
Tropius	-0.176* (0.099)	-0.135 (0.099)	-0.157 (0.100)
Typhlosion	-0.133*** (0.043)	-0.117*** (0.044)	-0.118*** (0.044)

Tyranitar	-0.052*** (0.013)	-0.024* (0.014)	-0.027 (0.017)
Tyrantrum	-0.091** (0.045)	-0.085* (0.045)	-0.092* (0.051)
Umbreon	-0.045** (0.022)	-0.035 (0.022)	-0.039* (0.022)
Unfezant	-0.296* (0.160)	-0.252 (0.160)	-0.243 (0.160)
Unown	-1.165*** (0.392)	-1.202*** (0.394)	-1.178*** (0.396)
Ursaring	-0.034 (0.081)	-0.017 (0.082)	-0.029 (0.082)
Uxie	-0.054 (0.095)	-0.063 (0.095)	-0.094 (0.118)
Vanilluxe	-0.107 (0.132)	-0.092 (0.132)	-0.108 (0.133)
Vaporeon	-0.099*** (0.028)	-0.089*** (0.0)	-0.089*** (0.028)
Venomoth	-0.107 (0.100)	-0.099 (0.100)	-0.109 (0.101)
Venusaur	-0.047*** (0.014)	-0.119*** (0.030)	-0.124*** (0.030)
Vespiqueen	-0.306** (0.134)	-0.328** (0.135)	-0.327** (0.135)
Vibrava	5.478 (36.577)	5.344 (36.577)	5.335 (36.577)
Victini	-0.045* (0.023)	-0.031 (0.023)	-0.031 (0.023)
Victreebel	-0.160* (0.095)	-0.180* (0.096)	-0.192** (0.096)
Vigoroth	-0.120 (0.138)	-0.093 (0.138)	-0.073 (0.141)
Vileplume	-0.194** (0.082)	-0.208** (0.082)	-0.197** (0.083)
Virizion	-0.139 (0.089)	-0.094 (0.089)	-0.103 (0.090)
Vivillon	-0.011 (0.066)	0.022 (0.067)	0.012 (0.067)
Volbeat	0.073 (0.109)	0.109 (0.110)	0.097 (0.110)
Volcarona	-0.016 (0.018)	-0.002 (0.018)	-0.002 (0.018)
Vullaby	-0.939** (0.450)	-0.905** (0.451)	-0.945** (0.451)
Wailord	-0.427** (0.176)	-0.396** (0.177)	-0.415** (0.177)
Walrein	-0.249*** (0.088)	-0.246*** (0.088)	-0.249*** (0.088)
Wartortle	-0.498** (0.241)	-0.501** (0.242)	-0.507** (0.243)
Watcho	-0.425 (0.292)	-0.402 (0.292)	-0.445 (0.293)
Weavile	0.004 (0.013)	0.007 (0.013)	0.007 (0.013)
Weezing	-0.017 (0.045)	0.0002 (0.045)	0.0002 (0.045)
Whimsicott	-0.066** (0.031)	-0.058* (0.031)	-0.060* (0.031)
Whiscash	0.032 (0.198)	0.079 (0.198)	0.060 (0.199)
Wigglytuff	-0.114 (0.132)	-0.088 (0.132)	-0.126 (0.142)
Wobbuffet	-0.213** (0.101)	-0.181* (0.101)	-0.201** (0.101)
Wormadam	-4.023 (36.574)	-4.063 (36.574)	-4.056 (36.574)
WormadamSandy	-0.655 (0.483)	-0.697 (0.485)	-0.587 (0.685)
WormadamTrash	-4.137 (18.258)	-4.093 (18.276)	-4.095 (25.862)
Xatu	0.102 (0.066)	0.111* (0.066)	0.115* (0.066)
Yanmega	0.063 (0.064)	0.068 (0.064)	0.059 (0.064)
Zangoose	-0.142** (0.069)	-0.136** (0.069)	-0.151** (0.069)
Zapdos	0.060** (0.024)	0.074*** (0.024)	0.078*** (0.024)
Zebstrika	-0.250** (0.111)	-0.229** (0.111)	-0.236** (0.112)
Zoroark	-0.032 (0.035)	-0.014 (0.035)	-0.022 (0.035)

Zweilous	5.112 (25.864)		5.018 (25.864)		4.952 (25.864)
Zygarde	-0.060 (0.045)		-0.029 (0.045)		-0.032 (0.045)
Abomasite		-0.063 (0.081)		-0.067 (0.081)	
Abite		-0.188*** (0.045)			
Aerotylite		-0.133*** (0.033)	-0.200** (0.079)		-0.199** (0.079)
Aggron		-0.061* (0.035)	-0.053 (0.062)		-0.059 (0.062)
Alakazit		-0.201*** (0.038)	-0.084 (0.056)		-0.066 (0.057)
Altarianit		-0.058*** (0.019)	-0.115*** (0.026)		-0.114*** (0.026)
Ampharosite		0.021 (0.019)	0.188* (0.096)		0.179* (0.096)
Audinite		-0.104*** (0.039)	0.256*** (0.078)		0.254*** (0.078)
Banettite		-0.292*** (0.080)	-0.279** (0.133)		-0.254* (0.133)
Beedrillite		-0.228*** (0.046)	0.155 (0.142)		0.170 (0.142)
Blastoisinite		-0.124*** (0.029)	-0.049 (0.046)		-0.046 (0.046)
Cameruptite		-0.205*** (0.070)	-0.179 (0.158)		-0.164 (0.159)
Charizarditex		-0.052*** (0.014)	0.196*** (0.038)		0.194*** (0.038)
Charizarditey		-0.048*** (0.015)	0.245*** (0.038)		0.242*** (0.038)
Diancite		0.107*** (0.018)	0.080 (0.058)		0.066 (0.058)
Galladite		-0.044** (0.022)	0.085 (0.061)		0.082 (0.061)
Garchompite		-0.161*** (0.025)	-0.177*** (0.027)		-0.177*** (0.027)
Gardevoirite		0.001 (0.017)	0.007 (0.035)		0.005 (0.035)
Glalitite		-0.159** (0.075)	-0.028 (0.208)		-0.024 (0.208)
Gyaradosite		0.014 (0.021)	-0.057* (0.030)		-0.055* (0.030)
Heracronite		0.068*** (0.026)	-0.059 (0.047)		-0.057 (0.047)
Houndoominite		-0.132*** (0.043)	0.035 (0.089)		0.035 (0.089)
Latiasite		0.035 (0.042)	-0.092** (0.045)		-0.101** (0.045)
Latiosite		-0.217*** (0.039)	-0.288*** (0.041)		-0.296*** (0.041)
Lopunnite		0.102*** (0.016)	0.273*** (0.080)		0.274*** (0.080)
Manectite		0.094*** (0.018)	0.066 (0.063)		0.072 (0.063)
Medichamite		0.097*** (0.020)	0.111 (0.076)		0.119 (0.076)
Metagrossite		0.058*** (0.016)	0.013 (0.033)		0.008 (0.033)
Pidgeotite		-0.072** (0.029)	0.090 (0.102)		0.087 (0.102)
Pinsirite		0.091*** (0.020)	0.124 (0.103)		0.126 (0.103)
Sablenite		0.079*** (0.017)	-0.005 (0.030)		-0.001 (0.030)
Sceptilite		-0.175*** (0.024)	-0.020 (0.053)		-0.021 (0.053)
Scizorite		0.126*** (0.015)	-0.030 (0.020)		-0.027 (0.020)
Sharpedonite		-0.040 (0.043)	-0.043 (0.077)		-0.033 (0.077)
Slowbronite		0.083*** (0.028)	-0.007 (0.032)		-0.007 (0.033)
Steelixite		-0.321*** (0.053)	-0.084 (0.084)		-0.082 (0.085)
Swampertite		-0.065*** (0.023)	-0.004 (0.042)		-0.005 (0.042)
Tyrannitarite		-0.115*** (0.025)	-0.121*** (0.029)		-0.131*** (0.029)
Venusaurite		0.039** (0.015)	0.081** (0.033)		0.086** (0.033)
Constant	-0.085*** (0.004)	0.083*** (0.017)	0.005 (0.007)	0.027 (0.018)	0.068*** (0.018)

Observations	141,154	141,154	141,154	141,154	141,154
Log Likelihood	-97,132.680	-96,235.580	-97,454.260	-95,725.700	-95,763.950
Akaike Inf. Crit.	194,283.400	193,281.200	194,986.500	192,353.400	192,607.900
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Note:	*p<0.1; **p<0.05;				
***p<0.01					

In the main Rmd file

In Chapter @ref(ref-labels):