Table 1. Conroy Cool Dwarf Response Function. Column 1 is the Lick index name, Column 2 is the units of the index, Column 3 is the model base star index strength and Columns 4-12 are the variation of the index strength (in units of mag or Å) when the element at the top of the column is increased by 0.3 dex (0.15 dex for C). The last column shows the variation of the index strength when there is an overall metallicity increase of 0.3 dex.

Index	Units	I_0	C	N	Mg	Fe	Ca	Na	Si	Cr	Ti	[M/H]
$H\delta_A$	Å	-10.483	-0.603	-0.071	0.888	-4.021	0.688	0.189	1.580	0.160	-0.367	-0.754
$H\delta_F$	Å	-1.726	-0.046	-0.013	0.141	-1.638	0.448	0.009	1.295	-0.073	-0.319	-0.471
CN_1	mag	0.160	0.056	0.039	-0.022	-0.014	-0.017	-0.006	0.069	-0.021	0.001	0.014
CN_2	mag	0.342	0.058	0.038	-0.042	-0.026	-0.024	-0.011	0.115	-0.021	0.000	0.015
Ca4227	Å	6.548	-0.314	-0.099	0.053	-0.114	0.882	-0.004	-0.235	-0.072	-0.036	0.479
G4300	Å	7.876	1.097	0.040	-0.056	-0.843	0.210	-0.068	-0.248	-0.018	0.509	-0.191
$H\gamma_A$	Å	-13.117	-0.300	-0.069	0.769	-1.005	-0.011	0.192	-0.075	0.392	-0.527	-0.306
$H\gamma_F$	Å	-5.055	-0.413	-0.023	0.265	-0.172	-0.143	0.094	-0.174	0.257	-0.046	0.007
Fe4383	Å	10.127	-0.058	0.002	-0.749	1.877	-0.428	-0.108	-0.014	0.014	-0.040	0.641
Ca4455	Å	3.973	-0.060	-0.003	-0.101	-0.146	0.266	-0.026	-0.136	0.157	0.105	0.467
Fe4531	Å	6.929	0.048	0.014	-0.556	0.259	-0.256	-0.079	0.080	0.247	0.981	0.652
$C_2$4668	Å	-0.105	0.892	0.008	-0.652	0.143	0.128	0.027	-0.192	-0.345	0.268	-0.054
$H\beta$	Å	-0.781	-0.100	0.007	-0.494	0.304	-0.021	0.046	0.046	-0.080	0.057	-0.116
Fe5015	Å	10.973	0.061	0.034	-1.122	1.138	-0.007	0.009	-0.089	0.049	1.310	1.424
Mg_1	mag	0.424	0.008	0.001	0.090	-0.033	-0.018	-0.014	-0.009	-0.005	-0.007	0.023
Mg_2	mag	0.592	0.008	0.002	0.082	-0.028	-0.014	-0.013	-0.007	-0.006	0.002	0.033
Mg_b	Å	4.622	0.128	0.027	0.821	-0.369	0.057	-0.045	0.007	-0.401	-0.098	0.104
Fe5270	Å	5.805	0.036	0.015	-0.500	0.765	0.222	-0.079	-0.025	-0.012	0.104	0.408
Fe5335	Å	6.349	0.019	0.011	-0.489	1.058	-0.089	-0.109	-0.037	0.337	0.029	0.767
Fe5406	Å	4.448	0.021	0.010	-0.385	0.697	-0.096	-0.076	-0.049	0.243	0.022	0.439
Fe5709	Å	1.502	0.003	0.000	-0.093	0.231	-0.003	-0.092	-0.001	0.068	0.080	0.230
Fe5782	Å	1.255	0.007	0.001	-0.003	-0.012	-0.017	-0.011	-0.004	0.361	-0.031	0.305
Na_D	Å	7.142	0.053	0.019	-0.374	-0.139	-0.171	1.894	-0.080	0.018	-0.126	1.077
TiO_1	mag	0.013	-0.001	0.000	-0.001	0.000	-0.001	0.000	0.000	0.001	0.005	0.006
TiO_2	mag	0.026	-0.001	0.000	-0.002	0.005	-0.007	0.000	0.000	0.000	0.005	0.010

Table 2. Conroy Cool Giant Response Function. Column 1 is the Lick index name, Column 2 is the units of the index, Column 3 is the model base star index strength and Columns 4-12 are the variation of the index strength (in units of mag or Å) when the element at the top of the column is increased by 0.3 dex (0.15 dex for C). The last column shows the variation of the index strength when there is an overall metallicity increase of 0.3 dex.

Index	Units	I_0	C	N	Mg	Fe	Ca	Na	Si	Cr	Ti	[M/H]
$H\delta_A$	Å	-11.954	-0.494	0.180	0.320	-3.895	0.104	0.021	1.584	0.119	-0.394	-1.770
$H\delta_F$	Å	-3.788	-0.141	-0.013	-0.012	-1.746	0.076	-0.009	1.170	-0.111	-0.321	-1.334
CN_1	mag	0.356	0.105	0.087	-0.037	-0.031	-0.009	-0.005	0.042	-0.015	-0.001	0.035
CN_2	mag	0.476	0.106	0.088	-0.050	-0.045	-0.012	-0.006	0.080	-0.016	-0.003	0.032
Ca4227	Å	5.205	-0.288	-0.171	0.025	0.051	1.825	0.021	0.082	-0.045	-0.122	1.440
G4300	Å	9.197	0.752	0.088	-0.073	-0.614	0.126	-0.060	-0.113	-0.193	0.259	-0.351
$H\gamma_A$	Å	-12.170	0.435	-0.175	0.339	-1.022	-0.068	0.117	-0.342	-0.065	-0.221	-0.708
$H\gamma_F$	Å	-4.486	-0.250	-0.054	0.134	-0.246	-0.074	0.062	-0.166	-0.092	0.041	-0.380
Fe4383	Å	8.905	-0.513	-0.103	-0.417	1.620	-0.117	-0.013	0.086	0.070	0.080	0.640
Ca4455	Å	3.503	-0.081	-0.038	0.004	-0.127	0.135	0.001	-0.085	0.215	0.086	0.396
Fe4531	Å	6.237	0.068	0.076	-0.260	0.310	-0.177	-0.006	0.105	0.170	0.584	0.814
$C_2$4668	Å	3.591	3.518	0.030	-0.766	-0.424	-0.010	-0.106	-0.367	-0.340	0.159	0.903
$H\beta$	Å	0.218	-0.136	0.012	-0.171	0.313	0.007	0.007	0.052	-0.056	0.043	0.091
Fe5015	Å	13.008	-0.140	-0.003	-0.624	1.659	0.051	0.023	-0.067	0.069	0.713	2.018
Mg_1	mag	0.238	0.032	-0.001	0.061	-0.027	-0.006	-0.004	-0.007	-0.003	-0.005	0.035
Mg_2	mag	0.378	0.017	0.002	0.087	-0.025	-0.005	-0.004	-0.006	-0.003	0.002	0.062
Mg_b	Å	3.996	0.144	0.026	1.277	-0.240	-0.005	-0.062	-0.038	-0.286	0.006	0.867
Fe5270	Å	4.991	0.040	0.036	-0.311	0.606	0.078	-0.022	-0.027	-0.071	0.131	0.428
Fe5335	Å	6.052	-0.040	-0.020	-0.249	0.846	-0.025	-0.024	0.001	0.195	0.064	0.952
Fe5406	Å	3.911	0.001	0.008	-0.190	0.465	-0.027	-0.018	-0.037	0.140	0.028	0.493
Fe5709	Å	2.234	-0.022	-0.021	-0.035	0.213	0.017	-0.024	-0.008	0.054	0.075	0.322
Fe5782	Å	1.710	-0.001	-0.006	0.028	0.014	-0.002	-0.001	0.032	0.285	-0.036	0.367
Na_D	Å	3.240	0.062	0.058	-0.151	-0.028	-0.063	1.256	-0.059	0.030	-0.067	0.992
TiO_1	mag	0.021	0.000	0.000	-0.001	0.001	-0.001	0.000	0.000	0.001	0.005	0.008
TiO_2	mag	0.057	0.002	0.003	-0.002	0.005	-0.002	0.000	0.000	0.001	0.005	0.015

Table 3. Conroy Turn-Off Response Function. Column 1 is the Lick index name, Column 2 is the units of the index, Column 3 is the model base star index strength and Columns 4-12 are the variation of the index strength (in units of mag or Å) when the element at the top of the column is increased by 0.3 dex (0.15 dex for C). The last column shows the variation of the index strength when there is an overall metallicity increase of 0.3 dex.

Index	Units	I_0	C	N	Mg	Fe	Ca	Na	Si	Cr	Ti	[M/H]
Hδ_A	Å	1.250	-0.133	-0.049	0.173	-0.537	0.113	0.009	0.150	0.079	-0.095	-0.540
Hδ_F	Å	2.029	-0.023	-0.009	0.092	-0.241	0.118	0.004	0.086	-0.009	-0.063	-0.189
CN_1	mag	-0.079	-0.004	0.008	0.002	0.004	-0.002	0.000	0.000	-0.003	0.002	0.004
CN_2	mag	-0.022	-0.004	0.009	0.003	0.003	-0.001	0.000	0.001	-0.002	0.003	0.006
Ca4227	Å	0.894	-0.059	-0.061	0.018	0.108	0.251	-0.002	0.015	-0.051	0.002	0.178
G4300	Å	5.507	0.550	-0.025	-0.315	-0.337	0.048	-0.031	-0.220	-0.095	0.137	0.404
Hγ_A	Å	-1.625	-0.512	0.028	0.442	0.241	0.020	0.021	0.260	0.037	-0.190	-0.364
Hγ_F	Å	1.290	-0.308	0.015	0.214	0.249	-0.015	0.014	0.133	0.013	0.008	-0.047
Fe4383	Å	3.244	0.161	-0.015	-0.108	0.326	-0.040	0.024	-0.061	0.091	0.100	0.711
Ca4455	Å	1.347	-0.013	-0.004	-0.018	-0.059	0.063	0.000	-0.015	0.063	0.048	0.296
Fe4531	Å	3.098	-0.004	-0.004	-0.026	0.131	-0.006	0.005	0.009	0.100	0.233	0.509
$C_2$4668	Å	1.178	0.227	-0.004	0.011	-0.012	0.008	0.015	-0.122	-0.115	0.132	0.248
Hβ	Å	3.547	-0.020	0.003	0.032	0.098	0.007	0.001	0.040	-0.030	0.081	0.253
Fe5015	Å	6.048	-0.169	-0.016	0.279	1.036	0.065	0.050	-0.035	-0.010	0.314	1.561
Mg_1	mag	-0.004	-0.001	0.000	0.002	-0.004	0.000	0.000	0.000	-0.001	0.001	-0.003
Mg_2	mag	0.060	-0.001	0.000	0.018	-0.005	0.000	0.000	-0.001	-0.002	0.002	0.009
Mg_b	Å	1.076	-0.029	-0.005	0.649	-0.076	0.010	-0.023	-0.024	-0.076	-0.043	0.211
Fe5270	Å	1.686	-0.010	-0.005	-0.061	0.345	0.091	0.000	0.035	0.042	0.061	0.494
Fe5335	Å	2.292	0.000	-0.006	0.016	0.462	0.009	0.000	0.059	0.063	0.020	0.654
Fe5406	Å	0.877	-0.026	-0.003	0.009	0.193	-0.004	0.001	-0.008	0.052	0.004	0.202
Fe5709	Å	0.663	0.000	-0.002	0.014	0.134	0.006	-0.027	-0.015	0.031	0.008	0.204
Fe5782	Å	0.399	0.020	-0.001	0.051	0.023	-0.001	0.001	0.029	0.144	-0.009	0.274
Na_D	Å	0.607	-0.003	-0.002	-0.027	-0.015	-0.016	0.276	-0.057	0.008	-0.021	0.142
TiO_1	mag	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TiO_2	mag	0.009	0.000	0.000	0.000	0.000	0.000	0.003	0.000	0.000	0.001	0.004

Table 4. Coelho Cool Dwarf Response Function. Column 1 is the Lick index name, Column 2 is the units of the index, Column 3 is the model base star index strength and Columns 4-8 are the variation of the index strength (in units of mag or Å) when the element at the top of the column is increased by 0.3 dex. The last column shows the variation of the index strength when there is an overall metallicity increase of 0.3 dex.

Index	Units	I_0	C	N	O	Mg	Ca	[M/H]
Hδ_A	Å	-12.008	-3.181	-0.55	0.487	1.334	0.504	-1.708
Hδ_F	Å	-2.145	-0.648	-0.126	-0.033	0.23	0.338	-0.525
CN_1	mag	0.084	0.124	0.029	-0.027	-0.015	-0.015	0.017
CN_2	mag	0.214	0.128	0.029	-0.033	-0.03	-0.021	0.029
Ca4227	Å	6.281	-0.743	-0.083	0.179	-0.129	1.112	0.73
G4300	Å	9.214	3.207	0.035	-1.143	-0.377	0.195	0.126
Hγ_A	Å	-16.126	-0.385	-0.046	0.582	1.367	-0.072	-1.347
Hγ_F	Å	-5.885	-2.081	-0.018	0.672	0.546	-0.077	-0.187
Fe4383	Å	10.131	-0.694	0.01	0.229	-0.895	-0.703	1.074
Ca4455	Å	2.897	-0.029	0.005	0.003	-0.116	0.156	0.329
Fe4531	Å	5.972	-0.018	-0.012	-0.013	-0.623	-0.4	0.578
$C_2$4668	Å	2.016	4.006	0.011	-0.308	-0.208	0.079	0.384
Hβ	Å	-0.21	-0.135	0.004	0.024	-0.176	-0.03	-0.048
Fe5015	Å	6.925	-0.208	0.01	0.022	-1.118	0.017	1.19
Mg_1	mag	0.291	0.047	0.001	-0.003	0.065	-0.011	0.028
Mg_2	mag	0.588	0.033	0.002	-0.002	0.1	-0.012	0.056
Mg_b	Å	6.965	0.246	0.031	-0.021	1.263	0.005	0.432
Fe5270	Å	5.701	0.006	0.012	0.004	-0.402	0.133	0.546
Fe5335	Å	5.633	-0.092	0.005	0.01	-0.461	-0.064	0.726
Fe5406	Å	3.686	-0.043	0.004	0.004	-0.311	-0.066	0.449
Fe5709	Å	1.387	-0.016	0.000	-0.002	-0.033	0.007	0.289
Fe5782	Å	1.143	-0.015	0.000	0.000	-0.016	-0.048	0.266
Na_D	Å	7.854	-0.046	0.021	0.009	-0.431	-0.132	1.302
TiO_1	mag	0.001	0.001	0.000	0.000	0.000	-0.002	-0.001
TiO_2	mag	0.021	0.001	0.000	0.000	-0.001	-0.006	0.003

Table 5. Coelho Cool Giant Response Function. Column 1 is the Lick index name, Column 2 is the units of the index, Column 3 is the model base star index strength and Columns 4-8 are the variation of the index strength (in units of mag or Å) when the element at the top of the column is increased by 0.3 dex. The last column shows the variation of the index strength when there is an overall metallicity increase of 0.3 dex.

Index	Units	I_0	C	N	O	Mg	Ca	[M/H]
Hδ_A	Å	-13.165	-4.409	-1.412	1.505	0.969	-0.082	-3.116
Hδ_F	Å	-3.434	-1.239	-0.432	0.343	0.151	0.052	-1.381
CN_1	mag	0.222	0.212	0.075	-0.068	-0.034	-0.01	0.041
CN_2	mag	0.327	0.218	0.078	-0.072	-0.043	-0.015	0.047
Ca4227	Å	4.936	-0.242	-0.176	0.156	0.016	1.676	1.292
G4300	Å	10.365	1.859	0.095	-0.871	-0.170	0.125	0.1
Hγ_A	Å	-14.825	1.235	-0.109	0.159	0.445	-0.139	-1.905
Hγ_F	Å	-5.885	-1.096	-0.04	0.497	0.305	-0.043	-0.525
Fe4383	Å	9.616	-0.461	0.008	0.065	-0.489	-0.259	1.45
Ca4455	Å	2.903	-0.034	0.007	-0.015	-0.058	0.131	0.289
Fe4531	Å	5.745	-0.18	-0.07	-0.016	-0.258	-0.253	0.662
$C_2$4668	Å	5.051	10.266	0.044	-1.2	-0.553	0.003	1.552
Hβ	Å	-0.018	-0.187	0.014	0.083	-0.074	-0.012	-0.07
Fe5015	Å	7.72	-0.708	-0.011	0.163	-0.707	0.046	1.223
Mg_1	mag	0.222	0.12	0.001	-0.022	0.038	-0.004	0.041
Mg_2	mag	0.398	0.04	0.002	-0.01	0.079	-0.005	0.075
Mg$_b$	Å	4.139	-0.533	0.016	0.101	1.477	-0.031	0.854
Fe5270	Å	5.031	0.071	0.036	-0.052	-0.23	0.063	0.601
Fe5335	Å	4.749	-0.198	-0.022	-0.014	-0.187	-0.01	0.713
Fe5406	Å	3.244	-0.091	0.006	-0.014	-0.146	-0.013	0.471
Fe5709	Å	2.136	-0.107	-0.014	-0.003	-0.031	0.02	0.35
Fe5782	Å	1.683	-0.051	-0.004	-0.018	0.011	-0.017	0.343
Na_D	Å	4.318	0.237	0.064	-0.088	-0.165	-0.043	1.166
TiO_1	mag	0.009	0.000	0.000	0.004	-0.001	-0.001	0.006
TiO_2	mag	0.053	0.004	0.001	0.006	-0.003	-0.003	0.014

Table 6. Coelho Turn-Off Response Function. Column 1 is the Lick index name, Column 2 is the units of the index, Column 3 is the model base star index strength and Columns 4-8 are the variation of the index strength (in units of mag or Å) when the element at the top of the column is increased by 0.3 dex. The last column shows the variation of the index strength when there is an overall metallicity increase of 0.3 dex.

Index	Units	I_0	C	N	O	Mg	Ca	[M/H]
Hδ_A	Å	2.492	-0.070	-0.033	0.010	0.154	0.048	-0.171
Hδ_F	Å	2.844	0.010	-0.004	0.005	0.083	0.075	0.062
CN_1	mag	-0.086	-0.006	0.004	0.000	0.002	-0.002	-0.004
CN_2	mag	-0.031	-0.007	0.004	0.00	0.003	-0.002	-0.001
Ca4227	Å	0.774	-0.097	-0.031	0.002	0.012	0.239	0.200
G4300	Å	5.497	1.311	-0.030	-0.037	-0.293	0.054	0.697
Hγ_A	Å	-1.000	-0.900	0.036	0.033	0.367	-0.008	-0.578
Hγ_F	Å	1.809	-0.604	0.018	0.018	0.194	0.00	-0.112
Fe4383	Å	1.955	-0.033	-0.011	-0.014	-0.044	-0.088	0.477
Ca4455	Å	0.879	-0.012	-0.002	-0.001	-0.031	0.051	0.212
Fe4531	Å	2.951	-0.005	-0.009	-0.002	-0.039	-0.058	0.502
$C_2$4668	Å	0.931	0.609	-0.006	-0.008	0.073	0.024	0.747
Hβ	Å	3.768	-0.001	0.005	0.003	0.025	0.003	0.258
Fe5015	Å	4.520	-0.009	-0.011	0.013	0.001	0.052	1.030
Mg_1	mag	0.009	0.011	0.000	-0.001	0.000	-0.001	0.008
Mg_2	mag	0.076	0.006	0.000	0.000	0.019	0.001	0.022
Mg$_b$	Å	1.431	-0.046	-0.007	0.000	0.655	0.014	0.299
Fe5270	Å	1.983	-0.020	-0.006	0.000	-0.003	0.081	0.533
Fe5270	Å	1.983	-0.020	-0.006	0.000	-0.003	0.081	0.533
Fe5335	Å	1.749	-0.030	-0.006	0.006	0.007	0.005	0.415
Fe5406	Å	0.855	-0.033	-0.003	0.000	0.009	0.002	0.201
Fe5709	Å	0.635	-0.008	-0.002	0.000	0.029	0.006	0.263
Fe5782	Å	0.336	-0.005	-0.002	-0.001	0.037	-0.010	0.192
Na_D	Å	0.924	-0.008	-0.003	0.000	-0.020	-0.019	0.251
TiO_1	mag	0.002	0.000	0.000	0.000	0.000	0.000	0.000
TiO_2	mag	0.008	0.000	0.000	0.000	0.000	-0.001	0.002

Table 7. CAP Cool Dwarf Response Function. Column 1 is the Lick index name, Column 2 is the units of the index, Column 3 is the model base star index strength and Columns 4-13 are the variation of the index strength (in units of mag or Å) when the element at the top of the column is increased by 0.3 dex. The last column shows the variation of the index strength when there is an overall metallicity increase of 0.3 dex.

Index	Units	I_0	C	N	O	Mg	Fe	Ca	Na	Si	Cr	Ti	[M/H]
Hδ_A	Å	-10.167	-2.360	-0.164	0.544	1.490	-2.796	0.353	0.120	1.837	0.144	-0.305	-0.843
Hδ_F	Å	-1.048	-0.636	-0.072	-0.020	0.178	-1.356	0.271	0.008	1.460	0.016	-0.210	-0.298
CN_1	mag	0.127	0.313	0.050	-0.051	-0.024	-0.017	-0.014	-0.004	0.054	-0.020	0.004	0.023
CN_2	mag	0.275	0.316	0.050	-0.057	-0.039	-0.027	-0.017	-0.005	0.091	-0.019	0.005	0.033
Ca4227	Å	5.927	-1.582	-0.162	0.325	-0.105	-0.203	1.071	0.029	-0.264	-0.074	-0.016	0.572
G4300	Å	8.077	3.447	-0.001	-1.052	-0.901	-1.107	0.095	-0.129	-0.539	-0.077	0.399	-0.204
Hγ_A	Å	-13.805	0.644	-0.012	0.344	1.508	-0.979	-0.167	0.160	0.232	0.449	-0.462	-0.761
Hγ_F	Å	-5.077	-1.064	-0.002	0.361	0.518	-0.290	-0.097	0.063	-0.043	0.383	-0.084	-0.083
Fe4383	Å	10.171	-0.632	-0.028	-0.004	-1.150	1.921	-0.607	-0.085	-0.276	-0.112	-0.078	0.625
Ca4455	Å	2.556	-0.268	-0.010	0.053	-0.087	-0.184	0.185	0.001	-0.174	0.105	0.024	0.238
Fe4531	Å	5.496	0.114	-0.017	-0.049	-0.505	0.239	0.031	0.011	-0.094	0.146	0.863	0.588
$C_2$4668	Å	1.406	5.415	-0.002	0.156	-0.659	0.203	0.037	-0.074	-0.252	-0.356	0.487	0.414
Hβ	Å	0.147	-0.427	0.000	0.170	-0.508	-0.111	-0.057	-0.021	-0.049	-0.114	0.108	0.019
Fe5015	Å	7.817	-0.453	-0.009	0.151	-1.268	0.317	-0.001	0.015	-0.227	0.057	1.198	1.078
Mg_1	mag	0.228	0.054	-0.001	-0.006	0.084	-0.021	-0.003	-0.002	-0.008	-0.004	-0.004	0.030
Mg_2	mag	0.518	0.035	-0.001	0.005	0.065	-0.042	-0.006	-0.006	-0.019	-0.005	0.005	0.051
Mg_b	Å	7.213	0.200	-0.002	0.155	0.161	-0.775	-0.078	-0.149	-0.277	-0.559	-0.009	0.372
Fe5270	Å	5.389	0.036	0.002	-0.041	-0.553	0.691	0.206	-0.047	-0.066	-0.027	0.019	0.504
Fe5335	Å	5.742	-0.078	-0.007	-0.067	-0.604	0.677	-0.058	-0.057	-0.059	0.362	-0.005	0.674
Fe5406	Å	3.658	-0.007	-0.002	0.001	-0.364	0.528	-0.039	-0.031	-0.079	0.192	0.039	0.430
Fe5709	Å	1.273	-0.071	-0.006	-0.001	-0.101	0.119	-0.001	-0.111	-0.027	0.051	0.077	0.227
Fe5782	Å	0.958	-0.003	-0.002	-0.040	-0.042	-0.053	-0.034	-0.009	-0.020	0.296	-0.064	0.166
Na_D	Å	7.041	-0.008	-0.001	-0.058	-0.296	-0.233	-0.023	1.971	-0.132	0.006	-0.040	1.083
TiO_1	mag	0.006	-0.004	0.000	0.014	0.001	0.001	-0.001	0.001	0.001	0.000	0.009	0.011
TiO_2	mag	0.027	-0.005	0.000	0.020	-0.001	0.002	-0.005	0.000	0.000	0.000	0.011	0.020

Table 8. CAP Cool Giant Response Function. Column 1 is the Lick index name, Column 2 is the units of the index, Column 3 is the model base star index strength and Columns 4-13 are the variation of the index strength (in units of mag or Å) when the element at the top of the column is increased by 0.3 dex. The last column shows the variation of the index strength when there is an overall metallicity increase of 0.3 dex.

Index	Units	I_0	C	N	O	Mg	Fe	Ca	Na	Si	Cr	Ti	[M/H]
Hδ_A	Å	-10.125	-2.337	0.007	0.865	0.966	-2.010	-0.085	-0.003	1.768	0.151	-0.321	-1.433
Hδ_F	Å	-1.922	-1.071	-0.156	0.225	0.074	-1.025	0.031	-0.017	1.267	-0.014	-0.254	-0.794
CN_1	mag	0.341	0.510	0.089	-0.108	-0.053	-0.057	-0.010	-0.005	0.022	-0.016	0.002	0.040
CN_2	mag	0.461	0.517	0.089	-0.110	-0.059	-0.064	-0.012	-0.004	0.049	-0.014	0.002	0.046
Ca4227	Å	4.111	-0.866	-0.172	0.386	0.439	0.266	1.897	0.091	-0.010	-0.040	-0.023	1.430
G4300	Å	9.106	2.860	-0.006	-0.798	-0.716	-0.907	0.075	-0.101	-0.502	-0.169	0.266	-0.167
Hγ_A	Å	-12.092	2.490	-0.062	-0.064	0.557	-1.071	-0.201	0.077	-0.088	-0.012	-0.364	-1.313
Hγ_F	Å	-4.456	-0.842	-0.012	0.165	0.202	-0.327	-0.078	0.031	-0.072	0.043	-0.051	-0.517
Fe4383	Å	9.085	-2.952	-0.132	0.015	-0.579	1.754	-0.212	-0.001	-0.155	-0.066	0.023	0.751
Ca4455	Å	2.189	-0.268	-0.032	0.079	0.044	-0.120	0.137	0.010	-0.088	0.139	0.069	0.228
Fe4531	Å	5.154	0.032	-0.061	-0.039	-0.238	0.258	0.020	0.018	-0.061	0.003	0.504	0.594
$C_2$4668	Å	3.923	12.574	-0.016	-0.165	-0.822	-0.252	-0.002	-0.099	-0.456	-0.377	0.666	1.453
Hβ	Å	0.449	-0.457	-0.001	0.336	-0.290	-0.071	-0.024	-0.009	-0.060	-0.093	0.187	0.117
Fe5015	Å	8.163	-1.656	-0.057	0.649	-0.710	0.426	0.040	0.032	-0.201	0.113	0.806	1.316
Mg_1	mag	0.163	0.153	-0.002	-0.019	0.053	-0.009	-0.001	-0.001	-0.008	-0.002	-0.005	0.031
Mg_2	mag	0.336	0.048	-0.002	0.039	0.081	-0.012	0.002	0.001	-0.014	-0.003	0.023	0.084
Mg_b	Å	4.555	-0.753	-0.005	1.106	1.187	-0.225	0.041	-0.022	-0.221	-0.427	0.527	1.244
Fe5270	Å	4.442	0.231	0.022	-0.069	-0.288	0.557	0.075	-0.013	-0.077	-0.058	0.053	0.537
Fe5335	Å	4.961	-0.327	-0.045	-0.081	-0.276	0.496	-0.005	-0.011	-0.063	0.194	-0.026	0.666
Fe5406	Å	3.104	0.036	-0.002	0.019	-0.149	0.402	0.003	-0.001	-0.077	0.108	0.046	0.478
Fe5709	Å	1.819	-0.338	-0.042	0.034	-0.077	0.051	0.017	-0.024	-0.042	0.042	0.089	0.278
Fe5782	Å	1.315	-0.033	-0.012	-0.081	-0.011	-0.052	-0.006	0.000	-0.019	0.225	-0.083	0.207
Na_D	Å	3.566	0.400	0.047	0.055	0.014	-0.011	0.017	1.238	-0.088	0.020	0.058	1.018
TiO_1	mag	0.021	-0.012	0.000	0.037	0.002	0.002	0.001	0.001	-0.001	0.001	0.019	0.024
TiO_2	mag	0.069	0.001	0.002	0.063	0.002	0.002	0.001	0.002	-0.001	0.000	0.031	0.045

Table 9. CAP Turn-Off Response Function. Column 1 is the Lick index name, Column 2 is the units of the index, Column 3 is the model base star index strength and Columns 4-13 are the variation of the index strength (in units of mag or Å) when the element at the top of the column is increased by 0.3 dex. The last column shows the variation of the index strength when there is an overall metallicity increase of 0.3 dex.

Index	Units	I_0	C	N	O	Mg	Fe	Ca	Na	Si	Cr	Ti	[M/H]
Hδ_A	Å	2.354	-0.230	-0.044	0.023	-0.117	-0.722	-0.004	-0.009	-0.105	0.013	-0.088	-0.396
Hδ_F	Å	2.739	-0.043	-0.013	0.016	-0.084	-0.402	0.035	-0.004	-0.066	-0.008	-0.047	-0.134
CN_1	mag	-0.092	-0.003	0.007	0.000	0.003	0.006	-0.001	0.000	0.002	-0.001	0.002	0.001
CN_2	mag	-0.037	-0.006	0.007	0.000	0.003	0.004	-0.002	0.000	0.002	-0.001	0.002	0.003
Ca4227	Å	0.646	-0.147	-0.045	0.001	0.031	0.106	0.256	-0.006	0.024	-0.053	0.001	0.138
G4300	Å	4.630	1.163	0.000	-0.023	-0.041	-0.057	0.076	-0.023	-0.028	-0.055	0.134	0.610
Hγ_A	Å	-0.243	-0.879	0.001	0.036	-0.066	-0.474	-0.058	0.005	-0.130	-0.017	-0.164	-0.606
Hγ_F	Å	2.086	-0.538	0.002	0.023	-0.067	-0.216	-0.032	-0.002	-0.083	-0.014	-0.022	-0.185
Fe4383	Å	2.052	0.215	-0.002	-0.014	0.052	0.543	-0.076	0.018	0.030	0.044	0.049	0.481
Ca4455	Å	0.773	-0.019	0.000	0.000	-0.011	-0.081	0.049	0.001	-0.034	0.052	0.033	0.146
Fe4531	Å	2.480	0.001	0.000	0.000	-0.010	0.106	0.013	0.005	-0.022	0.092	0.217	0.411
$C_2$4668	Å	0.481	0.394	0.000	-0.004	0.081	0.303	0.040	0.007	-0.080	-0.090	0.144	0.502
Hβ	Å	3.864	-0.034	0.001	0.013	-0.099	-0.182	-0.014	-0.004	-0.070	-0.044	0.072	0.157
Fe5015	Å	4.277	0.000	-0.001	0.002	0.050	0.490	0.053	0.030	-0.004	-0.002	0.250	1.006
Mg_1	mag	0.011	0.004	0.000	0.000	0.001	0.002	0.000	0.000	0.000	-0.002	0.000	0.008
Mg_2	mag	0.073	0.002	0.000	0.000	0.023	0.005	0.001	0.000	0.000	-0.001	0.001	0.020
Mg$_b$	Å	1.668	-0.031	0.000	0.000	0.787	0.098	0.023	-0.014	0.009	-0.091	-0.016	0.391
Fe5270	Å	1.793	-0.019	0.000	0.000	0.031	0.324	0.082	0.001	0.107	0.023	0.043	0.475
Fe5335	Å	1.909	-0.017	0.000	0.005	0.041	0.315	0.005	0.002	0.140	0.052	0.025	0.493
Fe5406	Å	0.851	-0.021	0.000	0.001	0.022	0.207	0.003	0.001	0.024	0.026	-0.002	0.198
Fe5709	Å	0.543	-0.006	0.000	0.000	0.039	0.119	0.006	-0.022	0.016	0.020	0.011	0.214
Fe5782	Å	0.254	-0.002	0.000	0.000	0.042	-0.003	-0.005	0.001	0.012	0.123	-0.008	0.134
Na_D	Å	0.712	-0.007	0.001	0.000	0.014	0.022	-0.023	0.270	-0.007	0.004	-0.006	0.184
TiO_1	mag	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TiO_2	mag	0.008	-0.001	0.000	0.000	0.000	0.001	-0.001	0.000	0.000	0.000	0.000	0.001