Identification of the best hyperspectral indices in estimating plant species richness in sandy grasslands

Supplementary Data

Table S1 The Pearson's correlation coefficients between the combinations on sensitive wavebands and species richness

Richness	Ri	D	R	ND	ID	FD	FDD	FDR	FDND	FDID
b375	-0.49368					-0.10695				
b376	-0.48505	0.081919	0.094131	0.089477	-0.04821	-0.2927	-0.1913	-0.15128	0.05873	0.065291
b377	-0.48328	-0.17454	-0.1372	-0.13589	0.092877	-0.39331	-0.1734	0.036223	0.048113	-0.05695
b378	-0.49071	-0.28995	-0.2394	-0.2435	0.155591	-0.48603	-0.19352	-0.14131	0.050998	-0.05097
b379	-0.50307	-0.33265	-0.08206	-0.09178	-0.02411	-0.38131	0.122491	-0.00189	0.260013	-0.04187
b380	-0.5095	-0.21476	0.05213	0.044279	-0.1247	-0.35604	0.106929	0.149146	0.124698	0.080348
b381	-0.50493	0.041114	0.114288	0.108409	-0.09772	-0.31536	0.030537	-0.02591	-0.05697	0.09143
b382	-0.50253	-0.20944	-0.14368	-0.14183	0.105151	-0.23685	0.111394	-0.00698	0.119819	-0.06959
b383	-0.50251	-0.22818	-0.18779	-0.19105	0.14736	-0.18622	0.075773	0.033372	0.004842	0.148203
b384	-0.50384	-0.01738	0.034179	0.031486	-0.03302	0.043995	0.261411	0.027054	-0.00051	0.01397
b385	-0.50135	0.199781	0.17899	0.18114	-0.11796	0.230253	0.215747	0.086012	0.036015	-0.09064
b386	-0.49454	0.176398	0.154783	0.158109	-0.09712	0.158839	-0.09623	-0.00769	0.083187	0.05618
b387	-0.48935	0.024524	0.030094	0.026142	-0.007	-0.11548	-0.31727	0.126059	-0.01101	-0.06056
b388	-0.48909	-0.14269	-0.06125	-0.06925	0.038401	-0.37015	-0.3679	0.057864	-0.07444	-0.04123
b389	-0.4974	-0.2534	-0.11199	-0.11246	-0.02264	-0.4793	-0.15669	-0.00483	-0.00705	0.061261
b390	-0.50155	-0.34626	-0.12867	-0.12549	-0.01788	-0.41724	0.11537	0.022962	0.120772	-0.07058
b391	-0.50119	-0.19152	-0.05846	-0.05487	-0.01057	-0.37138	0.16401	-0.06319	-0.06522	0.040379
b392	-0.5031	-0.00095	0.055235	0.053308	-0.05795	-0.33315	0.043223	0.033544	0.219662	0.087972
b393	-0.50392	-0.12697	-0.04923	-0.05033	0.036698	-0.0989	0.272955	0.124215	0.084531	-0.11949
b394	-0.50251	-0.1969	-0.12493	-0.13224	0.105204	0.117746	0.265458	0.085449	-0.04814	-0.03064
b395	-0.49733	0.205381	0.259599	0.260582	-0.22335	0.248372	0.215972	0.099776	-0.02222	0.142294
b396	-0.48997	0.342002	0.34251	0.34217	-0.27681	0.358964	0.120356	0.121323	-0.06606	-0.1104
b397	-0.48385	0.184957	0.129579	0.123341	-0.05409	0.129321	-0.34389	-0.0802	0.056332	-0.01612
b398	-0.48464	-0.15138	-0.13551	-0.14093	0.13503	-0.17473	-0.30251	0.076314	-0.00482	-0.06011
b399	-0.49017	-0.29264	-0.20151	-0.20471	0.127795	-0.35759	-0.19468	-0.06484	0.037862	0.070976
b400	-0.48925	-0.07102	0.170101	0.169334	-0.20575	-0.40621	-0.12795	-0.02615	0.057045	0.07399
b401	-0.48942	-0.07266	0.160915	0.158876	-0.18624	-0.38971	-0.05968	-0.03858	-0.0627	-0.08312
b402	-0.49604	-0.30219	-0.19203	-0.19351	0.033756	-0.51688	-0.27124	0.030742	-0.00542	-0.01842

b403	-0.5001	-0.47925	-0.34006	-0.34144	0.176722	-0.59537	-0.0962	0.04528	-0.05211	0.076991
b404	-0.50128	-0.34827	-0.21946	-0.22445	0.126179	-0.50922	0.201018	-0.03275	-0.06601	0.015649
b405	-0.50335	-0.18412	0.062448	0.060743	-0.12362	-0.38066	0.339302	0.055751	0.055991	-0.0131
b406	-0.50427	-0.0927	0.182334	0.183674	-0.23619	-0.14582	0.340597	0.091821	0.092058	-0.07621
b407	-0.50344	0.005373	0.071545	0.066338	-0.07003	-0.02673	0.135511	0.02054	-0.00058	-0.00102
b408	-0.50044	0.030494	0.177896	0.175689	-0.14372	-0.04507	-0.02986	0.00606	0.024618	0.147375
b409	-0.49766	-0.01166	0.124468	0.123497	-0.13572	-0.164	-0.15971	-0.10761	-0.05507	-0.15233
b410	-0.49824	-0.1045	-0.08621	-0.09003	0.047692	-0.34193	-0.16413	0.063561	0.006593	0.034422
b411	-0.50041	-0.32941	-0.21034	-0.21131	0.108377	-0.2881	0.092822	0.135462	0.003581	-0.07454
b412	-0.50216	-0.16917	-0.01745	-0.01902	-0.02668	-0.14801	0.143763	-0.07363	0.081286	-0.01599
b413	-0.49874	0.124949	0.297724	0.301537	-0.22649	-0.18979	-0.05889	-0.11529	-0.00774	0.074463
b414	-0.4959	0.067467	0.290101	0.291102	-0.24193	-0.26951	-0.06901	0.020519	0.006563	-0.01627
b415	-0.49775	-0.27441	-0.12931	-0.12785	0.025472	-0.45788	-0.27475	-0.0634	-0.13754	0.087947
b416	-0.50088	-0.41298	-0.17255	-0.17413	0.06272	-0.44215	-0.07176	-0.12161	0.090127	0.153932
b417	-0.50293	-0.23811	-0.06307	-0.06526	0.026705	-0.32037	0.282364	0.150173	0.190867	-0.1879
b418	-0.50016	-0.03738	-0.00676	-0.00767	0.032215	-0.18703	0.233683	-0.04799	-0.02493	0.177727
b419	-0.49831	0.015316	0.201811	0.201448	-0.1656	-0.15574	-0.01005	0.076972	-0.03039	0.002427
b420	-0.49926	-0.02551	0.185121	0.187696	-0.16973	-0.28724	-0.17934	0.037048	-0.02144	-0.01343
b421	-0.49999	-0.3013	-0.03143	-0.03324	-0.05654	-0.35644	-0.0519	-0.08861	0.015853	0.055351
b422	-0.50005	-0.30995	-0.14364	-0.14488	0.07084	-0.39763	-0.08788	-0.10261	-0.08239	-0.00372
b423	-0.4994	-0.05837	0.099476	0.096964	-0.11436	-0.37549	0.033471	0.002956	0.121652	0.004637
b424	-0.50063	-0.213	-0.01492	-0.0179	-0.04216	-0.32111	0.163429	0.001794	0.100646	0.001506
b425	-0.50303	-0.23336	-0.09597	-0.09679	-0.00538	-0.38521	-0.05868	-0.03395	0.043394	0.060156
b426	-0.50227	-0.08176	0.18993	0.185457	-0.19494	-0.43534	-0.08597	0.058594	-0.05284	-0.01795
b427	-0.50195	-0.16786	0.1302	0.127674	-0.14631	-0.28436	0.162479	0.09332	0.15856	-0.07651
b428	-0.50387	-0.20179	-0.15092	-0.15877	0.106123	-0.12959	0.188959	0.153164	0.04225	0.032975
b429	-0.50234	-0.02201	0.157838	0.157044	-0.17784	0.037295	0.229125	0.091988	-0.00601	-0.10163
b430	-0.49835	0.136066	0.270839	0.265424	-0.2445	0.159815	0.201961	0.078972	0.180334	0.099258
b431	-0.49525	0.16884	0.201722	0.203905	-0.13	0.113077	-0.13042	0.040259	0.017189	0.179245
b432	-0.49457	0.031117	0.094097	0.093224	-0.0589	-0.00317	-0.15515	-0.18701	0.076622	-0.17988
b433	-0.49588	-0.16518	-0.09067	-0.09208	0.061181	-0.21416	-0.23225	-0.07202	0.04608	0.077869
b434	-0.49419	-0.07693	0.326523	0.326562	-0.34924	-0.38061	-0.27072	-0.20875	-0.09388	0.066404
b435	-0.49317	-0.14866	0.275199	0.274572	-0.3149	-0.41736	-0.18979	-0.13584	-0.11679	0.01671
b436	-0.49618	-0.32427	-0.10048	-0.10323	-0.04292	-0.50831	-0.27402	-0.22319	0.009751	0.182165
b437	-0.49801	-0.50944	-0.35993	-0.36077	0.147133	-0.57161	-0.01696	-0.2051	0.017525	-0.16799
b438	-0.49821	-0.31778	-0.2214	-0.22121	0.14842	-0.4513	0.269824	-0.00395	0.108449	-0.06977
b439	-0.49861	-0.16203	0.05237	0.050217	-0.08847	-0.28231	0.385449	-0.20843	0.104168	0.073406
b440	-0.49779	-0.06003	0.288861	0.289424	-0.2897	-0.15047	0.248144	0.087344	0.005919	-0.05308
b441	-0.49558	0.0007	0.220141	0.219325	-0.16463	-0.1768	-0.03312	-0.04376	-0.05673	0.053599
b442	-0.49485	-0.10801	0.224404	0.224933	-0.24581	-0.329	-0.2633	0.000279	0.056254	-0.0102
b443	-0.49544	-0.22285	0.030447	0.028822	-0.1477	-0.46907	-0.30383	-0.06246	-0.12714	0.066862
b444	-0.49664	-0.35181	-0.05677	-0.05753	-0.09428	-0.55801	-0.13885	-0.0593	-0.02766	0.003857
b445	-0.49772	-0.48518	-0.21156	-0.21125	-0.03232	-0.52226	0.025337	-0.01052	-0.01964	0.020427

b446	-0.49831	-0.23257	-0.07987	-0.08154	0.043278	-0.45083	0.248752	0.008214	-0.08309	0.052646
b447	-0.49817	-0.22094	0.022116	0.020931	-0.09762	-0.37511	0.209893	0.067148	0.074645	-0.09715
b448	-0.49779	-0.19882	0.096845	0.09574	-0.1595	-0.4022	-0.06905	-0.18099	0.074609	0.165109
b449	-0.49771	-0.13413	0.074466	0.074254	-0.1339	-0.45719	-0.23627	0.056126	-0.04153	0.005153
b450	-0.49846	-0.42049	-0.06388	-0.0646	-0.14646	-0.5048	-0.18818	0.028324	-0.19788	0.022275
b451	-0.4997	-0.37923	-0.12262	-0.12315	-0.11298	-0.50789	-0.07999	0.014957	0.0272	-0.04629
b452	-0.50058	-0.36547	-0.0889	-0.08906	-0.11887	-0.47181	0.201249	0.072249	0.049554	-0.00491
b453	-0.50077	-0.32438	0.094793	0.094696	-0.26669	-0.41618	0.263561	0.016786	0.005902	0.035695
b454	-0.50026	-0.13703	0.177077	0.176599	-0.2353	-0.33775	0.219032	-0.04196	0.004159	0.122619
b455	-0.50024	-0.14193	-0.0024	-0.00356	-0.02205	-0.30567	0.083073	-0.13289	-0.09116	-0.1027
b456	-0.50037	-0.13482	-0.05114	-0.05266	0.038867	-0.32234	-0.04329	-0.02342	0.028065	0.015032
b457	-0.49998	-0.16936	0.12365	0.122401	-0.19422	-0.39337	-0.11114	0.063741	-0.00135	-0.04178
b458	-0.49988	-0.28895	0.179942	0.179228	-0.33658	-0.48326	-0.25843	0.030651	-0.07556	0.014577
b459	-0.50031	-0.22475	-0.03106	-0.03153	-0.07047	-0.5488	-0.17621	-0.10112	-0.06468	-0.07162
b460	-0.50151	-0.46683	-0.27952	-0.27935	0.150927	-0.53217	0.141835	-0.05665	0.023323	0.175133
b461	-0.50234	-0.40814	-0.20526	-0.20627	0.092494	-0.53539	-0.10308	-0.20591	-0.18289	-0.18743
b462	-0.50209	-0.08442	0.183312	0.18338	-0.18759	-0.54133	-0.02147	0.04102	0.081929	0.102979
b463	-0.50259	-0.43025	-0.11008	-0.11073	-0.06068	-0.48672	0.207297	0.03211	0.110374	-0.10498
b464	-0.50356	-0.45076	-0.27152	-0.27143	0.149083	-0.50801	-0.07088	-0.16448	-0.10866	0.234732
b465	-0.50354	-0.18809	0.074381	0.073638	-0.14753	-0.49589	0.171881	-0.05	0.135977	-0.0065
b466	-0.50362	-0.23146	0.077826	0.077487	-0.14169	-0.35999	0.362168	-0.00281	0.033069	0.001274
b467	-0.50401	-0.1982	-0.05939	-0.06001	-0.00158	-0.24496	0.14771	-0.03771	0.073311	0.048172
b468	-0.50339	-0.11011	0.147584	0.146	-0.18105	-0.16613	0.170032	-0.02461	0.00822	-0.03471
b469	-0.5024	-0.0176	0.231115	0.229851	-0.23649	-0.13731	0.044837	0.004836	0.035305	0.0144
b470	-0.50197	0.030028	0.071015	0.070556	-0.03968	-0.22318	-0.17382	-0.05727	-0.15976	0.250169
b471	-0.50192	-0.19381	-0.08873	-0.08975	0.05099	-0.27253	-0.05971	0.145279	-0.0698	0.085516
b472	-0.50205	-0.25881	-0.109	-0.10895	0.032406	-0.36316	-0.17802	0.116869	0.089914	-0.12042
b473	-0.50166	-0.08093	0.130744	0.129003	-0.16449	-0.45743	-0.2979	0.025949	-0.03725	-0.04108
b474	-0.50182	-0.25628	0.091992	0.090811	-0.18956	-0.43717	0.08617	0.025402	0.007401	-0.04778
b475	-0.50303	-0.39497	-0.16014	-0.16134	0.035247	-0.38193	0.067554	-0.05977	0.061921	0.010639
b476	-0.50296	-0.18393	-0.02727	-0.02783	-0.04874	-0.45965	-0.07047	-0.0252	-0.0823	0.061425
b477	-0.50221	0.010954	0.070993	0.069932	-0.06916	-0.42058	0.16563	0.01851	0.039867	-0.03561
b478	-0.50275	-0.23131	-0.04565	-0.04715	-0.03535	-0.41361	-0.06684	-0.01027	-0.01653	-0.01906
b479	-0.5033	-0.32579	-0.11922	-0.12023	0.03601	-0.45104	-0.20963	-0.01967	-0.02978	-0.08914
b480	-0.50353	-0.21324	-0.09964	-0.09978	0.060339	-0.48463	-0.03052	-0.12037	0.068801	0.097354
b481	-0.50371	-0.27423	0.062218	0.061405	-0.12601	-0.47488	-0.16926	-0.05053	-0.04365	-0.02036
b482	-0.50429	-0.35324	0.033022	0.0325	-0.17019	-0.50557	-0.19842	-0.0196	0.024488	0.024839
b483	-0.50575	-0.3513	-0.14186	-0.14204	0.014961	-0.52198	-0.04295	0.034239	-0.04847	-0.01112
b484	-0.50691	-0.48348	-0.2579	-0.25848	0.039444	-0.45077	0.326755	0.086172	0.047218	-0.03618
b485	-0.50713	-0.23544	-0.0318	-0.03299	-0.05155	-0.16705	**0.42295**	-0.01714	0.014792	0.027343
b486	-0.50543	0.077087	0.255577	0.254441	-0.25242	0.193497	0.377935	0.184948	0.033596	0.007914
b487	-0.50315	0.312112	0.399848	0.399335	-0.34246	0.163549	-0.06054	0.08303	-0.00358	0.064827
b488	-0.5015	0.203298	0.160527	0.160513	-0.05285	-0.15725	-0.46985	0.015079	-0.01029	-0.03781

b489	-0.50218	-0.4153	-0.31972	-0.31916	0.238999	-0.38498	-0.30708	-0.01451	-0.14426	-0.0593
b490	-0.504	-0.48046	-0.37884	-0.37864	0.215614	-0.5704	-0.31344	-0.06142	-0.0781	-0.0813
b491	-0.50476	-0.18082	0.081758	0.082838	-0.11296	-0.53138	0.028582	-0.13308	0.154173	0.170376
b492	-0.50487	-0.31882	0.129035	0.129188	-0.2176	-0.36276	**0.45591**	0.071821	0.227438	0.051356
b493	-0.50447	-0.21914	-0.04829	-0.04839	0.001741	-0.28483	0.140845	0.047985	-0.02769	-0.00121
b494	-0.50381	-0.03956	0.227256	0.226894	-0.27635	-0.32094	-0.07787	0.011623	-0.03817	0.002215
b495	-0.50344	-0.05664	0.220996	0.22148	-0.23379	-0.37173	-0.15569	0.015126	-0.00718	-0.04438
b496	-0.50385	-0.25551	0.000991	0.000719	-0.08331	-0.45753	-0.36466	-0.19059	-0.06788	0.003174
b497	-0.50426	-0.43246	-0.03114	-0.03102	-0.15293	-0.54075	-0.23948	-0.06093	-0.02642	0.052861
b498	-0.5047	-0.35256	-0.0234	-0.02357	-0.13385	-0.53407	0.14739	0.101838	0.023288	-0.10361
b499	-0.50612	-0.31081	-0.07391	-0.07439	-0.02551	-0.38869	0.368908	0.282915	0.27114	-0.0717
b500	-0.50603	-0.16979	0.10714	0.108169	-0.11883	-0.23151	0.29394	0.025337	0.089259	-0.05993
b501	-0.50373	0.035511	0.366739	0.366746	-0.36126	-0.15043	0.136372	0.041702	0.096576	0.067111
b502	-0.50301	-0.0908	0.140808	0.139883	-0.1251	-0.14895	-0.017	0.066249	-0.03689	-0.04709
b503	-0.50324	-0.18052	-0.00586	-0.0065	-0.02806	-0.27558	-0.18586	-0.03604	0.024202	0.094454
b504	-0.50295	-0.14273	0.118014	0.117081	-0.16142	-0.35615	-0.1281	0.065083	0.003079	-0.10942
b505	-0.50293	-0.2433	0.221811	0.222172	-0.28964	-0.37907	-0.08015	0.034795	0.032344	-0.01259
b506	-0.50325	-0.24082	0.176445	0.177049	-0.21267	-0.39691	-0.05123	-0.00585	-0.00254	-0.05908
b507	-0.50348	-0.24624	0.112926	0.112515	-0.21839	-0.37108	0.053994	-0.01869	0.065906	0.024179
b508	-0.50357	-0.24634	0.18682	0.187093	-0.29021	-0.36556	0.048994	0.058946	0.087726	-0.07706
b509	-0.50356	-0.08669	0.201902	0.20228	-0.24016	-0.4052	-0.0014	-0.03913	0.001141	0.020045
b510	-0.50433	-0.24912	0.236461	0.237463	-0.26224	-0.40765	-0.16238	-0.14501	-0.11794	0.080191
b511	-0.50536	-0.24361	0.173308	0.173674	-0.24653	-0.45423	-0.18605	-0.12187	-0.11321	0.023318
b512	-0.50515	-0.30837	0.060932	0.060759	-0.19571	-0.47753	-0.06845	-0.05842	-0.04668	0.028361
b513	-0.50521	-0.36426	0.14328	0.143927	-0.23393	-0.47342	-0.0761	-0.10431	-0.1226	0.176495
b514	-0.50599	-0.2501	0.193157	0.19375	-0.24442	-0.46517	0.167811	0.128326	0.148399	-0.1381
b515	-0.50701	-0.37763	0.082508	0.082212	-0.19654	-0.22615	**0.40594**	**0.42874**	**0.44372**	-0.41851
b516	-0.50709	-0.18343	0.196431	0.196881	-0.26144	-0.0045	0.323784	0.33866	0.344306	-0.26341
b517	-0.50502	0.229845	**0.45277**	**0.45386**	-0.39213	0.131115	0.257995	0.279061	0.305412	-0.07082
b518	-0.50366	0.211544	**0.41272**	**0.41524**	-0.34166	0.242278	0.267847	0.237021	0.131713	0.065085
b519	-0.50326	0.046386	0.221223	0.222662	-0.21933	0.158902	-0.26144	0.060492	-0.18427	-0.06752
b520	-0.50196	0.22485	**0.41006**	**0.41163**	-0.35961	-0.08245	-0.39023	-0.03583	-0.34448	0.030362
b521	-0.50146	-0.05087	**0.40486**	**0.40597**	-0.37277	-0.29466	-0.28235	-0.06794	-0.18763	0.031039
b522	-0.50255	-0.33102	0.179584	0.17968	-0.29885	-0.43286	-0.40133	-0.32134	-0.36181	0.303423
b523	-0.5039	-0.41425	0.177126	0.177328	-0.28317	-0.47081	-0.25954	-0.25474	-0.25515	0.241266
b524	-0.50515	-0.27503	0.155046	0.155182	-0.24909	-0.41446	0.287951	0.185035	0.191838	-0.05602
b525	-0.50617	-0.26007	0.171556	0.171558	-0.25831	-0.26603	0.36324	0.355751	0.348822	-0.29229
b526	-0.50654	-0.15218	0.321465	0.321833	-0.355	0.002832	**0.46853**	**0.4756**	**0.44455**	-0.31234
b527	-0.5059	0.073871	**0.40743**	**0.40762**	-0.40541	0.185988	0.335361	0.293253	0.341679	-0.27989
b528	-0.50314	0.301037	**0.51311**	**0.51421**	-0.43438	0.073903	-0.28311	-0.24931	-0.23397	0.161066
b529	-0.50115	0.153076	**0.42647**	**0.42739**	-0.38817	-0.13591	-0.34717	-0.33108	-0.34359	0.277657
b530	-0.50248	-0.34415	0.065602	0.064943	-0.2584	-0.41627	-0.38705	-0.35143	-0.36747	0.296074
b531	-0.50387	-0.44731	0.149336	0.149046	-0.31001	-0.52847	-0.27693	-0.27128	-0.28962	0.203426

b532	-0.50454	-0.26946	0.235009	0.235013	-0.32658	-0.45657	0.213467	0.213812	0.229574	-0.17181
b533	-0.50422	-0.13257	0.276654	0.276479	-0.36221	-0.33359	0.174697	0.150946	0.125937	-0.04929
b534	-0.50362	-0.16795	0.301559	0.301649	-0.39806	-0.29711	0.019693	-0.05529	-0.05732	0.026887
b535	-0.50328	-0.19034	0.115887	0.115182	-0.19063	-0.37633	-0.10054	-0.05562	-0.15451	0.036508
b536	-0.50372	-0.28218	0.178223	0.177832	-0.2756	-0.4623	-0.13587	0.031828	-0.01597	-0.1472
b537	-0.50449	-0.30101	0.173369	0.173277	-0.3046	-0.50125	-0.08906	-0.0155	-0.05323	-0.00838
b538	-0.50493	-0.2895	0.09847	0.097996	-0.27766	-0.4927	0.020529	-0.07626	-0.0657	0.077875
b539	-0.50516	-0.40231	0.149567	0.149363	-0.37273	-0.41557	0.156823	0.060673	0.041294	0.041669
b540	-0.50503	-0.21636	0.101142	0.100724	-0.26374	-0.28773	0.224656	0.142287	0.123518	0.008269
b541	-0.50407	-0.09254	0.173023	0.172607	-0.19639	-0.19078	0.182017	0.146	0.055486	-0.01416
b542	-0.50286	-0.06365	0.276967	0.276693	-0.30757	-0.25368	-0.15012	-0.05688	0.026525	0.017806
b543	-0.50198	-0.13093	0.279678	0.27892	-0.38702	-0.39131	-0.3157	-0.12592	0.004534	-0.0031
b544	-0.50243	-0.40468	-0.04239	-0.04287	-0.17552	-0.45162	-0.1725	-0.03897	-0.06653	0.018417
b545	-0.50342	-0.41627	-0.16212	-0.16253	-0.00114	-0.47819	-0.15723	-0.12118	-0.16122	0.105172
b546	-0.50306	-0.2197	0.101234	0.10105	-0.21498	-0.48205	0.017069	0.05722	0.013777	-0.08055
b547	-0.5029	-0.34818	0.118108	0.117932	-0.32265	-0.40178	0.248646	0.22632	0.191288	-0.04117
b548	-0.5032	-0.29929	-0.02716	-0.02763	-0.1439	-0.39532	0.053657	0.021661	0.010657	-0.03993
b549	-0.50246	-0.2329	0.173873	0.173275	-0.35063	-0.44616	-0.1106	-0.06121	-0.0627	0.051081
b550	-0.50191	-0.23083	0.151126	0.150507	-0.2839	-0.42957	0.041379	0.025434	0.004219	0.011763
b551	-0.50291	-0.41067	-0.05002	-0.05046	-0.18593	-0.43316	-0.04861	-0.05825	-0.0292	0.031436
b552	-0.50312	-0.4018	-0.03288	-0.03282	-0.25866	-0.49543	-0.21592	-0.0949	-0.19782	0.031511
b553	-0.50257	-0.24829	-0.00381	-0.00422	-0.12403	-0.48546	-0.15845	-0.16984	-0.13206	0.05946
b554	-0.50291	-0.40592	-0.17725	-0.17714	-0.05634	-0.50164	-0.29827	-0.02842	-0.1321	-0.058
b555	-0.50357	-0.49866	-0.32	-0.31996	0.079161	-0.51561	-0.09277	-0.06894	0.037584	0.074378
b556	-0.5042	-0.44592	-0.32354	-0.32345	0.17373	-0.46591	0.216582	0.110697	0.161139	-0.07734
b557	-0.5043	-0.34699	-0.04023	-0.04012	-0.15251	-0.39419	0.269388	-0.03618	0.141384	-0.07596
b558	-0.50388	-0.2174	0.062934	0.06271	-0.18916	-0.34427	0.279791	0.113358	-0.04945	0.062836
b559	-0.50305	-0.22374	-0.1939	-0.19428	0.189415	-0.33764	0.005308	-0.1072	0.044919	0.027939
b560	-0.50265	-0.29884	-0.21132	-0.21115	0.158186	-0.34955	-0.19479	-0.05101	-0.04601	-0.10422
b561	-0.50273	-0.32168	-0.09984	-0.09965	-0.07011	-0.37419	-0.13372	-0.0997	-0.02624	0.104087
b562	-0.50224	-0.30044	-0.13647	-0.13651	0.021072	-0.3968	-0.1337	-0.19466	0.115444	-0.07849
b563	-0.50185	-0.34163	-0.24171	-0.24158	0.164492	-0.41686	-0.15887	-0.04485	0.023978	-0.13477
b564	-0.50211	-0.32025	-0.25086	-0.25134	0.211421	-0.44395	-0.07128	0.211433	0.071694	0.033368
b565	-0.50254	-0.46267	-0.39384	-0.39338	0.281065	-0.41176	0.117325	0.030987	-0.03967	-0.02998
b566	-0.50275	-0.34625	-0.19767	-0.19841	0.074104	-0.36965	0.038736	-0.03331	-0.06312	-0.12462
b567	-0.50194	-0.21034	-0.14609	-0.14619	0.135415	-0.3605	-0.0873	-0.13614	-0.07526	0.141461
b568	-0.50155	-0.30437	-0.25835	-0.25808	0.220826	-0.36576	0.032089	-0.10592	0.04762	0.04959
b569	-0.502	-0.36201	-0.31902	-0.31816	0.242859	-0.39431	-0.00807	-0.1425	-0.1429	-0.07939
b570	-0.50206	-0.37774	-0.29096	-0.29045	0.214986	-0.38226	0.112488	0.046041	0.06143	0.072907
b571	-0.50164	-0.28412	-0.23435	-0.23432	0.219194	-0.36643	0.074635	0.220044	-0.03446	-0.15944
b572	-0.50078	-0.20835	-0.22358	-0.22424	0.243912	-0.39063	-0.21448	-0.1099	0.128779	0.070767
b573	-0.50084	-0.37462	-0.33732	-0.33674	0.264769	-0.40122	-0.17928	-0.00335	-0.09576	-0.05924
b574	-0.50168	-0.41449	-0.28444	-0.28442	0.11701	-0.43407	-0.17408	-0.07293	0.011056	0.134455

b575	-0.50178	-0.37485	-0.22676	-0.22584	0.092761	-0.44786	0.053527	-0.08871	0.028855	-0.11334
b576	-0.50178	-0.38599	-0.28898	-0.28832	0.216403	-0.41441	0.30362	-0.05593	-0.03022	0.037433
b577	-0.50196	-0.36022	-0.32304	-0.32265	0.27845	-0.37902	0.265329	0.024463	0.042065	-0.0326
b578	-0.5017	-0.30526	-0.22399	-0.22403	0.118863	-0.35464	0.114226	0.047365	-0.13614	-0.00049
b579	-0.50119	-0.22475	-0.06657	-0.06739	-0.03951	-0.35041	-0.00899	0.058654	-0.0418	-0.03715
b580	-0.50089	-0.28639	-0.18653	-0.18614	0.157636	-0.3912	-0.24502	-0.02016	-0.03031	0.034031
b581	-0.50111	-0.39963	-0.3056	-0.30519	0.227214	-0.48017	-0.46491	0.085486	0.019842	-0.04062
b582	-0.5019	-0.39233	-0.3058	-0.30559	0.186991	-0.53966	-0.27077	-0.1096	-0.21265	0.148552
b583	-0.50317	-0.57356	-0.53269	-0.53248	0.388534	-0.53188	0.189109	-0.01788	-0.10403	-0.11159
b584	-0.50395	-0.51854	-0.42754	-0.42706	0.295719	-0.46174	0.31283	0.094828	0.125551	0.027983
b585	-0.50344	-0.18214	-0.11079	-0.11043	0.061524	-0.34258	**0.48759**	0.093565	-0.10413	0.066123
b586	-0.50281	-0.15568	0.061733	0.06145	-0.14845	-0.31391	0.182275	0.023067	-0.08301	-0.05933
b587	-0.50246	-0.17733	0.052484	0.052044	-0.14676	-0.26442	0.251757	0.132387	-0.04205	-0.02741
b588	-0.50307	-0.42785	-0.33254	-0.33225	0.226727	0.077669	**0.50984**	-0.01619	-0.01565	-0.04571
b589	-0.50184	0.080111	0.062588	0.062126	0.013194	0.195566	0.249498	0.055775	0.074213	-0.03427
b590	-0.49808	**0.48027**	0.338752	0.336146	-0.17162	0.265802	0.246424	0.053343	-0.12286	0.041968
b591	-0.49668	0.16794	-0.01965	-0.0212	0.164035	0.262024	-0.08091	-0.05008	-0.06157	-0.13268
b592	-0.49675	-0.22618	-0.24629	-0.24695	0.243538	0.008553	-0.49861	-0.09005	0.066178	0.12456
b593	-0.4963	-0.02368	0.095481	0.095351	-0.1233	0.005761	-0.00778	0.029647	-0.10475	-0.01594
b594	-0.49533	0.126995	0.262207	0.261836	-0.2516	0.130338	0.260596	0.005474	0.046931	0.025837
b595	-0.49401	0.145701	0.128279	0.127326	-0.05086	0.135635	0.058265	0.093003	-0.01882	-0.01932
b596	-0.49324	0.101101	0.04144	0.040666	0.07371	0.085959	-0.10009	-0.03674	-0.05578	0.054682
b597	-0.49234	0.04316	0.089057	0.08866	-0.00187	0.007804	-0.20386	-0.0404	0.03575	-0.17061
b598	-0.49097	-0.02343	0.132042	0.131426	-0.1729	-0.05167	-0.15997	-0.07462	-0.0075	0.002529
b599	-0.49011	-0.089	0.004853	0.004753	-0.00823	-0.06618	-0.01364	-0.02184	-0.0057	-0.17291
b600	-0.48961	-0.08078	-0.06003	-0.06043	0.096779	-0.04731	0.057438	0.163292	0.041876	0.179654
b601	-0.48899	0.028128	0.09983	0.099441	-0.08017	-0.04074	0.016733	0.00268	-0.09835	-0.06063
b602	-0.48828	0.066673	0.077261	0.076755	-0.02193	-0.28345	-0.33204	-0.07553	-0.00681	-0.13527
b603	-0.48785	-0.0663	-0.06387	-0.06444	0.083965	-0.52463	-0.4967	-0.13791	-0.05524	0.130474
b604	-0.48918	-0.54593	-0.31553	-0.31537	0.10005	-0.53789	-0.38661	0.082697	-0.03675	-0.1119
b605	-0.49123	-0.52693	-0.3408	-0.34128	0.075799	-0.53391	-0.41665	0.014718	-0.11549	-0.02829
b606	-0.49294	-0.39514	-0.29971	-0.29989	0.108572	-0.52394	-0.32471	-0.06086	0.001155	0.062896
b607	-0.49528	-0.49928	-0.37591	-0.3763	0.140469	-0.49552	-0.13608	0.059854	0.013065	0.111145
b608	-0.49796	-0.51793	-0.37371	-0.37401	0.155062	-0.48874	-0.10544	-0.11801	-0.06521	-0.02288
b609	-0.49985	-0.41743	-0.34444	-0.34343	0.176654	-0.46335	0.088718	0.046289	0.263717	0.002412
b610	-0.50178	-0.39932	-0.35416	-0.35342	0.193233	-0.44689	0.032339	-0.02794	-0.02111	0.013289
b611	-0.5041	-0.37863	-0.27701	-0.27627	0.107862	-0.4581	0.03494	-0.1756	0.115486	0.057071
b612	-0.50666	-0.47277	-0.48525	-0.4851	0.326015	-0.44841	0.353735	-0.11659	-0.07337	-0.06236
b613	-0.50861	-0.46736	-0.44846	-0.44791	0.294431	-0.44919	0.259093	0.012673	0.010113	-0.06849
b614	-0.50883	-0.22076	0.003059	0.001984	-0.11936	-0.43877	0.246978	-0.07483	0.039535	0.104253
b615	-0.5093	-0.33776	-0.16629	-0.16653	-0.00973	-0.42838	0.295361	0.099752	0.037439	0.085099
b616	-0.51027	-0.36033	-0.26393	-0.26504	0.172623	-0.45839	0.117805	-0.14681	0.017234	-0.08459
b617	-0.51037	-0.22617	-0.14657	-0.14695	0.110898	-0.2994	0.193831	0.016281	0.208896	0.029935

b618	-0.51015	-0.06673	-0.08439	-0.08518	0.10201	0.04542	**0.40803**	-0.12813	0.002524	-0.04703
b619	-0.50983	0.009545	-0.0837	-0.08384	0.146772	0.236181	**0.42686**	0.062217	-0.08102	0.073432
b620	-0.50788	0.315303	0.35909	0.358835	-0.24673	0.288467	0.265951	-0.13087	-0.04828	-0.15447
b621	-0.50504	0.359348	**0.42422**	**0.42436**	-0.31953	0.329327	0.239289	0.096524	0.079226	0.117032
b622	-0.50303	0.203369	0.030468	0.029105	0.131979	0.342631	-0.05561	-0.00335	0.027849	-0.11535
b623	-0.50144	0.265848	0.10056	0.100137	0.099014	0.351305	-0.13715	-0.10741	0.076834	-0.00826
b624	-0.50008	0.293095	0.223818	0.223226	-0.14276	**0.4192**	0.001316	0.028769	0.096252	0.054764
b625	-0.49849	0.373971	0.273184	0.272645	-0.13193	**0.45056**	-0.11257	0.035813	-0.02887	-0.06868
b626	-0.49698	0.35511	0.26656	0.26572	-0.13248	**0.40715**	-0.20253	0.032498	0.077181	0.015355
b627	-0.49584	0.121856	0.156534	0.155077	-0.11232	0.257407	-0.30436	0.012446	-0.06722	-0.02942
b628	-0.49531	0.108705	0.014683	0.013738	0.084694	-0.02409	-0.40228	0.001811	-0.03656	0.095187
b629	-0.49532	-0.01146	-0.10735	-0.10852	0.151761	-0.22433	-0.29911	0.020481	0.04399	-0.08455
b630	-0.49585	-0.25226	-0.09859	-0.09968	0.041831	-0.29872	-0.14128	0.044918	0.08055	0.036441
b631	-0.49614	-0.29944	-0.13948	-0.13968	0.016014	-0.25088	0.062691	0.047856	0.049448	-0.01225
b632	-0.49589	-0.0725	-0.01579	-0.01688	-0.01349	-0.13854	0.286693	0.126843	-0.01312	-0.02068
b633	-0.49527	0.1036	0.345828	0.345759	-0.33236	-0.14503	0.003094	0.006043	-0.16213	0.112881
b634	-0.49484	0.020985	0.192452	0.192846	-0.18951	-0.19666	-0.10767	0.005561	0.065868	-0.10072
b635	-0.49522	-0.24284	-0.19799	-0.19873	0.168727	-0.26949	-0.22728	-0.06658	-0.0212	-0.01697
b636	-0.49545	-0.27625	-0.1706	-0.17108	0.096412	-0.36525	-0.19094	0.034349	-0.13064	-0.06436
b637	-0.49546	-0.16503	-0.00969	-0.01007	-0.0589	-0.3934	-0.04339	-0.07597	0.056275	0.104366
b638	-0.4958	-0.23546	-0.10588	-0.10619	0.004677	-0.44162	-0.0999	-0.25642	0.07248	-0.05003
b639	-0.49635	-0.34804	-0.30327	-0.30326	0.241384	-0.41545	0.102775	-0.03598	-0.01366	0.03738
b640	-0.49694	-0.33401	-0.31504	-0.3146	0.272608	-0.34085	0.193892	-0.02774	-0.06286	0.057418
b641	-0.49653	-0.0711	-0.10545	-0.10592	0.138351	-0.34319	-0.00922	-0.05765	-0.01664	-0.0398
b642	-0.4959	0.019492	0.051508	0.050784	-0.01767	-0.27499	0.177259	-0.1449	-0.10813	-0.12193
b643	-0.4965	-0.29907	-0.25839	-0.25883	0.196104	-0.21956	0.082571	-0.03707	-0.01821	-0.01212
b644	-0.49662	-0.25377	-0.14941	-0.14906	0.083843	-0.21143	-0.03423	0.072153	0.056869	-0.09684
b645	-0.49591	0.033834	0.085279	0.083475	-0.05955	-0.11214	0.19304	-0.0709	0.123199	0.156947
b646	-0.495	-0.02665	-0.07966	-0.07989	0.11485	-0.10572	-0.00189	-0.0825	-0.02405	-0.03831
b647	-0.49457	-0.12853	-0.16871	-0.16856	0.176798	-0.18482	-0.08828	0.076165	-0.097	0.069134
b648	-0.49507	-0.12031	-0.08674	-0.08705	0.059982	-0.21535	-0.02707	-0.11365	-0.02494	0.03825
b649	-0.4949	-0.10632	-0.0985	-0.09885	0.101793	-0.28937	-0.10608	-0.02941	0.060747	-0.11788
b650	-0.49432	-0.04382	-0.07381	-0.07346	0.108889	-0.27336	0.031131	0.017079	0.018539	0.017908
b651	-0.49445	-0.17707	-0.14127	-0.14193	0.110865	-0.25212	0.07011	0.058541	-0.0946	0.024532
b652	-0.49451	-0.16414	-0.05783	-0.05777	0.005248	-0.30268	-0.12954	0.011585	0.025923	-0.02795
b653	-0.49439	0.003312	0.104257	0.103114	-0.13212	-0.30802	-0.00613	0.072503	0.096111	0.072473
b654	-0.49487	-0.23888	-0.1367	-0.13763	0.079294	-0.22335	0.150973	-0.04728	-0.00674	-0.07435
b655	-0.495	-0.22891	-0.19056	-0.19124	0.164637	-0.16651	0.068302	0.115739	0.063119	-0.00806
b656	-0.49379	0.07012	0.01069	0.009318	0.017219	-0.02388	0.189052	-0.15658	0.082716	0.100729
b657	-0.49279	0.105502	0.005272	0.00491	0.044574	0.03569	0.102534	0.027277	-0.06848	0.001685
b658	-0.49238	0.001774	-0.02971	-0.03046	0.057672	-0.09836	-0.1606	-0.06157	-0.03541	-0.05081
b659	-0.49225	-0.10404	-0.0549	-0.05574	0.026074	-0.21237	-0.2037	-0.06761	-0.04289	0.081541
b660	-0.49244	-0.19299	-0.11968	-0.1202	0.035909	-0.28404	-0.17036	-0.02481	0.123612	-0.15533

b661	-0.49283	-0.13424	-0.0846	-0.08474	0.031852	-0.31954	-0.09369	-0.08881	0.025966	0.061734
b662	-0.49269	-0.24705	-0.20487	-0.20485	0.162694	-0.3203	0.004127	-0.05746	-0.03214	0.090955
b663	-0.49233	-0.22444	-0.16276	-0.16291	0.138101	-0.30901	0.072639	0.111869	-0.01596	-0.06761
b664	-0.4922	-0.1397	-0.00292	-0.00394	-0.0556	-0.26375	0.124363	-0.08615	0.131378	-0.07112
b665	-0.49239	-0.09183	-0.04215	-0.04308	0.012098	-0.28594	-0.04053	0.065817	-0.06405	-0.02163
b666	-0.49283	-0.05629	-0.12481	-0.1252	0.12334	-0.26666	0.028834	-0.04178	0.076394	0.046467
b667	-0.49327	-0.23464	-0.19829	-0.19874	0.175499	-0.12633	0.245732	0.325301	-0.00904	0.020629
b668	-0.49287	-0.13523	-0.11089	-0.11161	0.123917	-0.06696	0.095282	-0.01262	0.108218	-0.10396
b669	-0.49146	0.198132	0.164481	0.163669	-0.09299	0.033151	0.104489	-0.12714	-0.00826	0.065445
b670	-0.49129	0.068794	0.112812	0.111419	-0.13811	-0.03879	-0.10206	0.075818	0.006349	0.046694
b671	-0.49182	-0.13652	-0.03104	-0.03216	-0.05043	-0.26395	-0.28132	0.01539	-0.05594	0.084302
b672	-0.49176	-0.19536	-0.1191	-0.1211	0.101731	-0.32447	-0.10662	0.070134	-0.07269	-0.02988
b673	-0.49166	-0.21956	-0.11324	-0.11423	0.106704	-0.3078	0.000231	0.020432	-0.01485	-0.04148
b674	-0.49169	-0.08706	-0.01529	-0.01567	0.02611	-0.25964	0.153453	-0.05368	0.033169	0.036247
b675	-0.492	-0.13982	-0.08939	-0.0901	0.070492	-0.10843	0.219749	0.012603	-0.03132	-0.00962
b676	-0.49202	-0.04948	0.031223	0.030679	-0.03947	-0.17338	-0.08506	-0.09156	0.036327	-0.02027
b677	-0.49148	0.107198	0.171491	0.172043	-0.15243	-0.17341	-0.05325	-0.07596	-0.00657	0.090429
b678	-0.4916	-0.19098	0.034218	0.033807	-0.09037	0.148861	0.339016	0.088515	-0.00459	-0.0061
b679	-0.49179	-0.17043	0.034397	0.03407	-0.08495	0.114203	-0.05957	0.002315	0.02548	-0.03182
b680	-0.49041	0.34	0.273828	0.276215	-0.18134	-0.16107	-0.26532	-0.02109	0.000678	-0.05063
b681	-0.49036	0.062188	0.137357	0.138147	-0.12659	0.017203	0.153951	0.079194	0.01546	-0.05777
b682	-0.49191	-0.39942	-0.25816	-0.25866	0.158453	-0.15883	-0.19603	-0.06278	-0.09011	0.065616
b683	-0.4917	0.03562	0.229689	0.22932	-0.22688	-0.16855	-0.03084	0.099381	-0.0311	0.030805
b684	-0.491	0.234376	0.326143	0.327645	-0.24973	0.071443	0.273397	0.161404	0.019812	-0.12906
b685	-0.4911	0.001822	0.135426	0.135279	-0.09507	0.023622	-0.04514	-0.08256	-0.06933	0.097837
b686	-0.49156	-0.11584	0.179993	0.180674	-0.17864	0.128607	0.162628	0.065393	0.042015	-0.03849
b687	-0.4918	-0.0332	0.282893	0.283467	-0.2862	0.245947	0.279764	0.06575	0.225757	-0.02854
b688	-0.49032	0.282008	0.355067	0.35556	-0.31273	0.286198	0.186026	0.151386	0.013571	0.058154
b689	-0.48952	0.324689	0.361306	0.363201	-0.28256	0.26407	-0.01584	0.074508	0.039227	-0.042
b690	-0.49013	0.11192	0.167867	0.168568	-0.12133	0.157578	-0.24317	-0.07122	-0.16141	0.027883
b691	-0.491	-0.05342	0.207065	0.208898	-0.20398	0.155374	0.026035	-0.09629	-0.11448	0.045658
b692	-0.49144	0.028551	0.3179	0.319526	-0.28558	0.223706	0.261893	0.078339	0.105988	-0.04605
b693	-0.49084	0.288861	0.383793	0.386594	-0.31255	0.293545	0.33285	0.159044	0.228315	-0.10768
b694	-0.48983	0.343858	0.393528	0.397055	-0.30989	0.288575	0.10853	0.011808	0.074759	-0.05694
b695	-0.48905	0.236482	0.335821	0.339455	-0.27882	0.247668	-0.07189	-0.062	0.010441	-0.05141
b696	-0.48992	0.110606	0.317199	0.318719	-0.29902	0.246932	0.101327	-0.07282	-0.04522	0.0669
b697	-0.48999	0.205147	0.364328	0.366216	-0.32791	0.218444	-0.09174	-0.16925	-0.09599	0.069085
b698	-0.48872	0.294065	0.383446	0.386172	-0.33058	0.222469	0.081633	-0.06098	0.022818	-0.07357
b699	-0.49019	0.149947	0.301735	0.303652	-0.29346	0.266725	0.364351	0.122285	-0.02108	-0.05109
b700	-0.49171	0.145521	0.298414	0.300173	-0.29655	0.26274	0.039322	0.062897	-0.01235	0.065571
b701	-0.48927	0.344851	**0.41689**	**0.42042**	-0.36275	0.270991	0.097083	0.098501	-0.00912	-0.07264
b702	-0.48736	0.298753	**0.423**	**0.42505**	-0.37749	0.286149	0.130922	0.086845	0.100989	-0.0346
b703	-0.48697	0.18925	0.370011	0.371049	-0.35493	0.249611	-0.31447	-0.06666	-0.11972	0.061856

b704	-0.48712	0.222079	0.3588	0.360307	-0.35067	0.224118	-0.20299	-0.1411	-0.19494	-0.0485
b705	-0.48748	0.221732	0.351779	0.353356	-0.3478	0.23265	0.10535	0.06236	0.096628	0.038718
b706	-0.48769	0.200386	0.344417	0.345596	-0.34637	0.241447	0.111195	0.083598	0.065464	0.004637
b707	-0.4871	0.233112	0.368751	0.37012	-0.36524	0.259496	0.210706	0.073248	0.00622	-0.10048
b708	-0.48598	0.256473	0.376484	0.378114	-0.37011	0.290456	0.316606	0.097755	0.172138	0.018845
b709	-0.48482	0.27993	0.367553	0.369751	-0.35831	0.315398	0.273071	0.138039	0.062091	0.044143
b710	-0.48265	0.334291	**0.42788**	**0.42954**	-0.40972	0.305449	-0.06116	0.003594	0.056183	-0.06607
b711	-0.47994	0.325566	**0.4461**	**0.44718**	-0.43251	0.29533	-0.08001	0.056172	-0.03622	0.07329
b712	-0.47919	0.221001	0.362641	0.36348	-0.37859	0.300997	0.07203	-0.05729	0.077819	-0.01501
b713	-0.47813	0.251341	0.368886	0.369943	-0.38057	0.294587	-0.02031	-0.05614	-0.00785	0.020298
b714	-0.4754	0.3374	**0.4145**	**0.41572**	-0.40856	0.305059	0.111306	0.065796	0.031108	-0.10865
b715	-0.4728	0.306028	0.393284	0.394257	-0.39729	0.309189	0.055448	-0.10486	-0.09621	0.09562
b716	-0.47024	0.256534	0.354801	0.355537	-0.36468	0.299458	-0.03324	-0.07977	0.020866	0.061013
b717	-0.4673	0.249583	0.364376	0.365701	-0.3915	0.31607	0.108081	-0.02062	-0.00927	-0.0704
b718	-0.46345	0.309256	**0.43407**	**0.43523**	-0.43797	0.332235	0.117221	-0.05406	-0.06131	0.081706
b719	-0.45902	0.338742	**0.44375**	**0.44446**	-0.42866	0.333501	0.061444	0.050089	-0.05785	0.063852
b720	-0.45501	0.292263	0.378962	0.380773	-0.38877	0.322217	-0.03553	-0.06366	0.089509	-0.06479
b721	-0.45096	0.28477	0.367884	0.369258	-0.3818	0.284963	-0.30762	0.001647	-0.03817	0.021498
b722	-0.44649	0.27517	0.354865	0.355419	-0.36391	0.25323	-0.25354	-0.07897	-0.12447	-0.03395
b723	-0.44504	0.180476	0.288406	0.28911	-0.32676	0.282583	0.12524	-0.06472	0.036131	0.065095
b724	-0.44399	0.163258	0.28274	0.28377	-0.33398	0.301257	0.134196	0.089239	-0.03302	-0.00809
b725	-0.43719	0.377974	**0.48413**	**0.48461**	-0.4943	0.319299	0.199054	0.061277	-0.00865	-0.10708
b726	-0.43072	0.364361	**0.45362**	**0.45442**	-0.46541	0.344404	0.170561	-0.05652	0.080042	0.022101
b727	-0.4263	0.254386	0.328201	0.329148	-0.35173	0.323711	-0.22382	-0.09355	-0.10401	0.029128
b728	-0.42166	0.287525	0.392437	0.392958	-0.41848	0.316217	-0.09794	-0.04963	0.064818	-0.07408
b729	-0.41666	0.319317	**0.42144**	**0.42198**	-0.43162	0.323	0.030404	-0.01595	-0.03851	-0.04649
b730	-0.41124	0.317552	0.395041	0.395884	-0.40097	0.311893	-0.08374	0.05755	-0.01011	-0.02085
b731	-0.40562	0.296783	0.391213	0.39188	-0.41352	0.287814	-0.17488	0.003508	0.018164	0.075836
b732	-0.40045	0.244085	0.347672	0.347942	-0.38526	0.261093	-0.27289	-0.12616	-0.04476	-0.0497
b733	-0.39632	0.197287	0.289649	0.289871	-0.31912	0.256415	-0.15796	-0.06096	0.055918	-0.00361
b734	-0.39287	0.229177	0.309251	0.309822	-0.32812	0.29569	0.079795	0.015719	0.151922	0.081451
b735	-0.38932	0.265156	0.327497	0.328359	-0.34326	0.340596	0.119461	0.050869	0.002241	0.019625
b736	-0.38322	0.376527	**0.44287**	**0.44326**	-0.45025	0.335625	-0.04882	0.011519	0.01585	-0.06634
b737	-0.37727	0.34901	**0.43036**	**0.43044**	-0.45111	0.33789	-0.02199	0.011563	0.038858	0.011388
b738	-0.37388	0.187372	0.274894	0.275208	-0.3151	0.329673	-0.13533	0.044037	0.055017	0.022964
b739	-0.36943	0.305601	**0.40429**	**0.40465**	-0.41814	0.296542	-0.21888	-0.05835	-0.06697	-0.00715
b740	-0.36432	0.347059	**0.42229**	**0.42303**	-0.41983	0.308435	-0.05648	0.046806	0.017111	-0.06343
b741	-0.36084	0.218256	0.29743	0.29773	-0.32754	0.296377	-0.13792	0.019262	-0.08734	0.011601
b742	-0.35781	0.220558	0.284145	0.28438	-0.30956	0.271676	-0.144	0.042532	-0.03806	0.0151
b743	-0.35473	0.227423	0.278094	0.278176	-0.30223	0.295784	-0.005	0.140889	-0.02042	-0.12757
b744	-0.3511	0.288528	0.372119	0.372426	-0.39816	0.321553	-0.05526	0.029216	-0.02407	0.066514
b745	-0.3478	0.29213	0.395027	0.395237	-0.42161	0.331826	-0.05364	0.063226	-0.09968	-0.06534
b746	-0.34569	0.201758	0.279861	0.280019	-0.30758	0.332891	-0.0984	-0.04188	0.034923	0.030309

b747	-0.34348	0.280257	0.353013	0.353018	-0.365	0.336139	-0.09639	-0.0307	0.041855	-0.03224
b748	-0.34105	0.253762	0.313816	0.313668	-0.33225	0.29723	-0.13397	-0.02324	0.048029	0.012401
b749	-0.33873	0.21902	0.265041	0.265304	-0.26931	0.164469	-0.26276	-0.03712	-0.04706	0.00866
b750	-0.33751	0.065719	0.106781	0.106889	-0.1076	0.111581	-0.16301	0.013775	-0.15332	0.050276
b751	-0.33744	-0.07939	-0.04487	-0.04483	0.023745	0.146001	0.02624	0.074685	0.116769	0.073132
b752	-0.33653	0.108428	0.168896	0.169003	-0.211	0.331372	0.270058	0.149883	0.063623	-0.07857
b753	-0.3344	0.329301	0.379369	0.379294	-0.39053	**0.49655**	0.245818	0.138434	0.177306	-0.03335
b754	-0.33097	0.33248	0.373849	0.373992	-0.38326	**0.46615**	0.052002	0.083246	-0.07535	-0.03405
b755	-0.32876	0.322029	0.344442	0.344383	-0.32835	0.369206	0.111967	0.041278	0.102772	0.052548
b756	-0.3269	0.141373	0.107898	0.107675	-0.05374	0.265376	-0.12621	-0.18225	-0.08436	-0.09536
b757	-0.3203	0.253393	0.212709	0.212981	-0.13495	0.077093	-0.23425	-0.05671	0.033972	0.042941
b758	-0.31792	0.119513	0.066005	0.065602	0.00247	-0.04034	-0.1442	-0.00336	**0.42561**	-0.02772
b759	-0.32415	-0.1736	-0.18609	-0.18599	0.181753	-0.05607	-0.06221	-0.05751	-0.06227	0.104066
b760	-0.32919	-0.11757	-0.08408	-0.08337	0.042477	0.059795	0.335173	0.009702	0.061845	0.003241
b761	-0.32648	0.072849	0.1234	0.123303	-0.15765	0.150592	0.115207	0.03948	-0.03743	-0.00149
b762	-0.31354	0.391019	0.393449	0.39263	-0.36589	0.193187	-0.07163	0.079143	0.018604	0.042573
b763	-0.31417	-0.06251	-0.03445	-0.03475	0.004284	0.173041	0.037978	-0.04439	-0.02647	0.000521
b764	-0.32234	-0.32492	-0.27059	-0.27163	0.19769	-0.03053	-0.28829	0.041996	0.091764	-0.08332
b765	-0.31906	0.185996	0.200097	0.200635	-0.20249	-0.05122	-0.08043	0.044444	-0.06449	0.014211
b766	-0.31695	0.11967	0.130303	0.130628	-0.13267	0.049766	0.291478	0.02564	0.028056	0.026536
b767	-0.31842	-0.12002	-0.0998	-0.09958	0.075035	-0.03985	-0.22835	0.093173	0.077578	-0.2242
b768	-0.31941	-0.1153	-0.07555	-0.07592	0.028407	-0.10518	-0.08998	-0.24094	-0.056	0.225971
b769	-0.31973	-0.04186	0.005823	0.005801	-0.05419	0.001964	0.19916	-0.00926	-0.02741	-0.01066
b770	-0.31933	0.055037	0.08181	0.081761	-0.09097	0.160924	0.184277	-0.04335	-0.02788	-0.00557
b771	-0.31798	0.208426	0.254977	0.255131	-0.27304	0.112811	-0.06399	0.014907	0.012247	-0.0179
b772	-0.31657	0.122054	0.15362	0.153839	-0.17415	0.03009	-0.12331	-0.05042	-0.1064	0.187318
b773	-0.31756	-0.1238	-0.11742	-0.11736	0.105517	0.014351	-0.01703	-0.18002	-0.10603	-0.13171
b774	-0.31846	-0.12543	-0.10142	-0.10134	0.06622	0.114013	0.106979	-0.02675	-0.08194	-0.01074
b775	-0.31817	0.09284	0.11567	0.11572	-0.13229	0.293714	0.266145	0.069908	0.074332	-0.03836
b776	-0.31636	0.285018	0.30492	0.305122	-0.31156	0.309724	-0.0172	0.114925	0.094949	0.049973
b777	-0.31477	0.216082	0.23367	0.233752	-0.23174	0.12231	-0.22665	0.033753	-0.0231	-0.03697
b778	-0.31525	-0.09352	-0.08259	-0.08251	0.079846	-0.17378	-0.32908	-0.03218	-0.05031	0.023674
b779	-0.31651	-0.26627	-0.2408	-0.2408	0.213668	-0.21758	-0.06764	-0.03053	0.014762	-0.01853
b780	-0.31753	-0.16605	-0.12738	-0.1271	0.084488	-0.13631	0.149849	0.192084	0.012442	0.069054
b781	-0.3164	0.125016	0.161224	0.161239	-0.18197	-0.01687	0.118269	0.083653	0.022442	-0.06596
b782	-0.31575	0.100583	0.083271	0.08314	-0.04812	0.128221	0.189132	-0.04498	0.029303	-0.01286
b783	-0.31632	-0.04498	-0.08206	-0.08223	0.112437	0.178761	0.037338	0.001608	-0.0374	0.053333
b784	-0.31611	0.080943	0.096158	0.096283	-0.11016	0.228969	0.084654	-0.03763	0.005477	-0.02638
b785	-0.31507	0.174558	0.210087	0.210194	-0.23539	0.14789	-0.0982	0.062714	0.005609	-0.10969
b786	-0.31345	0.153631	0.160408	0.160576	-0.15127	-0.08338	-0.2934	-0.05094	-0.09054	0.0461
b787	-0.31434	-0.2283	-0.1872	-0.18699	0.147807	0.032851	0.152321	0.009327	0.018747	-0.05591
b788	-0.31637	-0.27013	-0.24318	-0.24291	0.20795	0.065353	0.033552	-0.03438	-0.0335	0.058329
b789	-0.31415	0.307665	0.324755	0.32493	-0.3313	0.088839	0.03344	0.029864	-0.06615	-0.0415

b790	-0.31279	0.279805	0.302943	0.303154	-0.31727	0.260715	0.205154	-0.03597	0.019279	-0.05037
b791	-0.31377	-0.11485	-0.06557	-0.06542	0.017937	0.098667	-0.24112	-0.09103	0.021498	0.055919
b792	-0.31367	0.016947	-0.01016	-0.01005	0.039345	-0.14741	-0.20785	0.022073	0.018699	0.000998
b793	-0.31333	0.027353	0.010006	0.009965	0.016414	0.004908	0.146442	0.083665	0.074451	0.006547
b794	-0.3137	-0.08262	-0.02088	-0.02048	-0.03006	0.086787	0.116583	0.028257	-0.01788	0.014897
b795	-0.31269	0.095539	0.126838	0.126979	-0.13101	0.005645	-0.10001	-0.04768	-0.05722	-0.06745
b796	-0.31109	0.136857	0.106769	0.106898	-0.06837	0.066557	0.076164	0.099767	0.05955	-0.0242
b797	-0.31182	-0.09839	-0.1046	-0.10441	0.113999	0.149261	0.091622	0.09588	-0.15778	0.015844
b798	-0.31229	0.005861	0.025508	0.025705	-0.05206	0.091687	-0.0767	0.082125	0.089624	0.05212
b799	-0.3117	0.15973	0.177959	0.177812	-0.19708	0.170789	0.101068	0.161471	-0.0326	-0.00682
b800	-0.31091	0.061581	0.083025	0.083282	-0.10277	0.218654	0.0551	0.048095	0.000779	-0.09074
b801	-0.31015	0.020221	0.020765	0.020804	-0.00577	0.064895	-0.18329	0.117226	-0.00509	-0.02699
b802	-0.30966	0.061483	0.045485	0.045531	-0.01855	-0.05663	-0.12911	0.043254	0.0727	0.056869
b803	-0.31009	-0.08554	-0.02818	-0.02806	-0.02129	-0.02047	0.036971	0.077761	0.046668	0.094825
b804	-0.31073	-0.0955	-0.03882	-0.03902	-0.01942	0.027668	0.059411	-0.11548	0.103074	-0.18076
b805	-0.30995	0.058172	0.061949	0.062217	-0.0633	0.184888	0.167285	-0.07078	-0.06394	-0.03576
b806	-0.30882	0.212242	0.158365	0.158309	-0.09125	0.340429	0.163275	-0.01017	0.01572	0.118638
b807	-0.30766	0.141258	0.102586	0.10254	-0.05386	0.348009	0.070003	-0.03787	0.064335	-0.04147
b808	-0.30649	0.141373	0.167154	0.167299	-0.18005	0.300248	0.041405	0.021952	-0.03084	-0.00629
b809	-0.30466	0.140654	0.172885	0.172826	-0.18626	0.224922	-0.03965	0.065297	-0.07372	0.048405
b810	-0.30192	0.14691	0.132137	0.132311	-0.10102	0.147563	-0.12461	0.05968	-0.02544	-0.0521
b811	-0.30104	0.109323	0.083072	0.082843	-0.04955	-0.01933	-0.22597	-0.05706	-0.04489	-0.02682
b812	-0.30236	-0.03458	-0.05351	-0.05337	0.066846	-0.10707	-0.1816	-0.04119	0.04624	0.096805
b813	-0.30571	-0.17399	-0.18351	-0.18329	0.180717	-0.059	0.081813	0.086213	0.012899	-0.09272
b814	-0.30696	-0.0607	-0.08125	-0.08121	0.093162	-0.06285	-0.0034	-0.0729	0.009676	0.005515
b815	-0.30538	0.138571	0.126379	0.126818	-0.10897	0.03019	0.14566	-0.06664	0.010089	-0.00187
b816	-0.30581	-0.04165	-0.00563	-0.00539	-0.0209	0.181492	0.148837	-0.03041	0.068216	0.017789
b817	-0.30577	-0.02941	0.017286	0.017482	-0.05226	0.1129	-0.07671	0.145415	0.008479	-0.03939
b818	-0.30362	0.148901	0.142379	0.142407	-0.12569	0.121913	0.038031	-0.17165	0.113792	0.033306
b819	-0.30232	0.070735	0.097369	0.09761	-0.10928	0.191014	0.116659	0.031913	0.156129	0.003596
b820	-0.30151	0.012572	0.052045	0.051815	-0.08382	0.019196	-0.24782	0.185926	-0.05313	-0.00463
b821	-0.2998	0.114375	0.162974	0.162942	-0.2075	-0.23063	-0.26367	-0.05609	-0.09176	0.011325
b822	-0.30258	-0.22671	-0.19693	-0.19696	0.135537	-0.09327	0.171741	-0.09341	-0.08918	-0.14258
b823	-0.30788	-0.26441	-0.25518	-0.25606	0.224895	0.099937	0.198512	0.261301	0.0105	0.059686
b824	-0.30376	0.228706	0.248673	0.249081	-0.25537	0.318785	0.297424	-0.002	0.125994	-0.01197
b825	-0.29773	**0.42379**	**0.42754**	**0.42715**	-0.38586	**0.45791**	0.112609	-0.07441	0.003473	-0.0538
b826	-0.29525	0.168292	0.144718	0.144573	-0.10315	0.079035	-0.36678	-0.06286	-0.01502	0.043833
b827	-0.29891	-0.2198	-0.20136	-0.2016	0.16009	-0.18651	-0.3139	-0.04302	0.132178	0.05465
b828	-0.30391	-0.29887	-0.2499	-0.25066	0.180172	-0.20734	0.006389	0.161203	0.031339	-0.02965
b829	-0.30303	0.002176	0.022717	0.022828	-0.02913	0.09786	0.328926	-0.05876	0.085049	0.011278
b830	-0.29949	0.262887	0.320474	0.320562	-0.35848	0.232146	0.127366	0.043754	0.029404	0.017963
b831	-0.29582	0.210445	0.242384	0.242613	-0.26646	0.150192	-0.06719	-0.0003	-0.07767	-0.0826
b832	-0.29736	-0.08174	-0.1105	-0.10981	0.135107	0.07796	-0.08628	0.053586	0.125425	0.085676

b833	-0.29916	-0.09953	-0.11023	-0.10956	0.109089	0.003304	-0.0938	0.054313	-0.09037	-0.05102
b834	-0.29889	0.075836	0.111815	0.111984	-0.14205	0.094052	0.095849	0.081717	0.137465	0.02229
b835	-0.29765	0.120133	0.146429	0.146599	-0.16657	0.091409	-0.00593	-0.02735	-0.02696	0.029377
b836	-0.29673	0.050582	0.057775	0.058176	-0.05616	0.149066	0.056227	-0.04241	0.062302	-0.02786
b837	-0.29736	-0.07889	-0.08451	-0.0843	0.093127	0.262688	0.188855	-0.02677	-0.07047	0.031393
b838	-0.29507	0.213455	0.255654	0.255549	-0.27995	0.339169	0.062642	0.047405	0.04459	0.014675
b839	-0.29086	0.272703	0.306812	0.3067	-0.32653	0.368484	0.056064	0.05008	0.009336	-0.10909
b840	-0.28996	0.104648	0.087539	0.088266	-0.07918	0.233392	-0.21505	0.009884	-0.04778	-0.02615
b841	-0.2903	-0.03266	-0.07084	-0.07069	0.095141	-0.01875	-0.25945	0.083939	-0.02761	0.064607
b842	-0.29107	-0.0963	-0.10313	-0.10267	0.105384	-0.05967	-0.04375	0.063936	-0.04581	-0.06207
b843	-0.29192	-0.01816	0.008247	0.008621	-0.03253	0.042248	0.110205	0.059009	-0.00053	-0.06274
b844	-0.29163	0.085968	0.101619	0.101853	-0.10557	0.178772	0.13795	0.111278	-0.02903	-0.03525
b845	-0.28932	0.105399	0.082559	0.083176	-0.05105	0.195818	0.04652	0.029085	-0.06302	0.038393
b846	-0.28826	0.091629	0.154239	0.154208	-0.20355	0.236063	0.031766	0.079762	-0.01077	-0.05975
b847	-0.28792	0.038778	0.101045	0.101045	-0.15246	0.238518	-0.03354	-0.01885	0.000779	-0.06155
b848	-0.28544	0.087924	0.033893	0.033262	0.027795	0.147002	-0.06454	0.004309	-0.0487	0.049704
b849	-0.28454	0.106047	0.063941	0.063899	-0.01637	-0.00731	-0.15988	-0.03397	-0.01621	0.029038
b850	-0.28616	-0.01598	0.020434	0.020333	-0.06649	-0.16138	-0.15721	-0.03317	-0.13824	-0.03295
b851	-0.28837	-0.21615	-0.22643	-0.22623	0.230119	-0.07171	0.068757	-0.06652	-0.06298	-0.13356
b852	-0.28911	-0.09785	-0.09547	-0.09527	0.095236	-0.15775	-0.10247	-0.13882	0.078359	0.139235
b853	-0.28742	0.136313	0.177463	0.177927	-0.21811	-0.16713	-0.04679	0.045549	0.085611	0.111957
b854	-0.28967	-0.19824	-0.15302	-0.15294	0.094668	0.099751	0.291353	0.178811	0.053278	-0.17079
b855	-0.29227	-0.21357	-0.20154	-0.20156	0.180868	0.110811	0.02112	-0.10695	0.001927	0.02579
b856	-0.28753	0.269957	0.23823	0.23911	-0.19602	0.130085	0.052822	0.107402	-0.01957	-0.01009
b857	-0.28413	0.216824	0.209975	0.209639	-0.17011	0.266145	0.159749	0.029995	-0.08028	0.025062
b858	-0.28399	-0.0675	-0.05433	-0.05373	0.052982	0.11229	-0.19898	-0.04915	0.205194	-0.08593
b859	-0.28449	0.040793	0.01542	0.016095	-0.00432	0.012714	-0.14886	-0.0448	0.057446	0.155397
b860	-0.28448	0.062448	0.056328	0.056423	-0.06264	0.083225	0.072538	-0.08814	-0.03922	-0.03056
b861	-0.28353	0.005652	0.049626	0.050415	-0.08541	0.045145	-0.04241	-0.02317	0.049105	-0.07458
b862	-0.28318	0.029379	0.028937	0.029396	-0.02671	-0.09282	-0.15041	-0.02045	0.068506	0.181703
b863	-0.28426	-0.01719	-0.04501	-0.0445	0.066253	-0.0667	0.019414	0.043222	-0.03717	-0.06885
b864	-0.28766	-0.13007	-0.1624	-0.16171	0.179522	0.022023	0.107981	-0.06963	-0.04493	0.068558
b865	-0.28783	0.039871	0.080553	0.0809	-0.12369	0.014153	-0.01069	0.01468	-0.08947	0.020104
b866	-0.28503	0.154152	0.200799	0.201213	-0.23334	0.192171	0.176396	-0.04906	0.026293	-0.02337
b867	-0.28493	-0.03628	-0.0862	-0.08569	0.128897	0.275862	0.163692	-0.01154	-0.12336	-0.02953
b868	-0.28239	0.126004	0.144238	0.144608	-0.15384	0.096453	-0.21884	-0.07772	0.021038	-0.10532
b869	-0.27722	0.204656	0.277275	0.277772	-0.31349	-0.02932	-0.16495	-0.05794	0.00635	0.045176
b870	-0.27967	-0.17103	-0.14925	-0.1493	0.12126	-0.04591	-0.01445	0.028044	-0.02581	0.033948
b871	-0.2841	-0.24305	-0.28554	-0.28552	0.312118	-0.11965	-0.08735	-0.21577	0.070896	-0.23378
b872	-0.28436	0.050293	0.009217	0.00932	0.03037	0.05942	0.214731	-0.01518	0.151003	-0.03868
b873	-0.28242	0.165353	0.139897	0.140085	-0.1002	0.227463	0.223005	-0.01046	0.140098	0.049043
b874	-0.27942	0.107113	0.110322	0.110899	-0.10837	0.226658	-0.02549	0.017977	0.020472	-0.11139
b875	-0.27713	0.088877	0.078905	0.079409	-0.06585	0.124796	-0.10517	-0.10545	-0.05639	0.107222

b876	-0.27655	0.039008	0.0737	0.07428	-0.10516	0.098189	-0.0453	0.015058	-0.00473	-0.03377
b877	-0.2774	-0.02969	0.012253	0.012667	-0.05397	0.039348	-0.0669	0.03208	-0.05435	-0.04957
b878	-0.27665	0.046723	0.052999	0.053148	-0.05855	-0.0222	-0.07292	-0.08118	0.096603	0.065947
b879	-0.27588	0.026763	0.024752	0.024876	-0.02145	0.085358	0.09766	-0.06206	**0.4045**	-0.01385
b880	-0.27627	-0.05141	-0.04061	-0.04032	0.033668	0.113365	0.04325	0.011149	0.030033	-0.01235
b881	-0.2749	0.146045	0.128761	0.129095	-0.10401	-0.07589	-0.21929	-0.10927	-0.10262	-0.02882
b882	-0.27456	0.097171	0.076074	0.076715	-0.06213	-0.05565	0.011561	0.120086	-0.01192	0.035804
b883	-0.28022	-0.21565	-0.21254	-0.21329	0.189132	-0.00398	0.058439	-0.02306	-0.0389	-0.03533
b884	-0.28071	-0.06313	-0.02554	-0.02523	-0.01108	-0.03121	-0.0253	0.072465	-0.07152	0.063278
b885	-0.27563	0.148566	0.174545	0.174321	-0.17386	0.175321	0.242072	0.061743	0.145616	0.037835
b886	-0.27416	0.049127	0.016324	0.015997	0.028643	0.280883	0.158083	0.044186	0.017533	-0.0418
b887	-0.27239	0.11681	0.07079	0.070938	-0.02153	0.265028	-0.0366	-0.08581	0.06193	0.061173
b888	-0.26904	0.133386	0.138685	0.139794	-0.15286	0.286104	-0.01214	-0.23247	0.17663	-0.06559
b889	-0.26646	0.144793	0.133044	0.133301	-0.12637	0.177802	-0.0992	-0.06386	0.159282	0.064864
b890	-0.26531	0.034753	0.020115	0.021058	-0.00339	-0.01125	-0.19224	0.069733	-0.01518	-0.16096
b891	-0.2662	-0.04196	-0.06252	-0.06275	0.090771	-0.13635	-0.185	-0.26541	0.022764	0.106026
b892	-0.26835	-0.15179	-0.15306	-0.15274	0.159122	-0.17117	-0.03842	-0.04057	0.021452	-0.06544
b893	-0.27093	-0.11229	-0.09564	-0.09464	0.074957	-0.1589	0.011088	-0.07572	0.091588	-0.18538
b894	-0.27251	-0.02453	-0.00888	-0.00832	-0.00537	-0.12995	0.032306	0.080972	0.062298	-0.03361
b895	-0.2753	-0.0382	-0.05313	-0.05312	0.055601	-0.07771	0.068622	-0.0709	-0.26102	0.119565
b896	-0.27931	-0.04058	-0.07222	-0.07088	0.087331	-0.08031	-0.00039	-0.06689	0.004511	-0.11327
b897	-0.28028	-0.01571	-0.01324	-0.01217	0.010154	-0.08839	-0.01698	0.029431	0.024196	-0.00343
b898	-0.27988	-0.02952	-0.00077	-6.2E-06	-0.023	0.016315	0.113947	0.123935	0.073495	0.035631
b899	-0.27957	-0.03725	-0.01757	-0.01609	-0.00396	0.098787	0.110272	0.056651	0.027917	-0.0135
b900	-0.27332	0.121174	0.098001	0.096936	-0.05572	0.064171	-0.04078	0.002873	0.013728	-0.04314
b901	-0.26788	0.118481	0.075215	0.074164	-0.01848	0.195457	0.165684	0.063801	0.076677	0.036521
b902	-0.27445	-0.06682	-0.07725	-0.07708	0.076073	0.385873	0.259947	0.015264	0.033331	-0.03675
b903	-0.26879	0.290055	0.276167	0.275927	-0.25603	0.392182	-0.02896	-0.15032	0.008495	0.031092
b904	-0.2522	0.364911	0.357517	0.356526	-0.33328	0.389122	0.038386	0.126278	-0.13621	-0.02458
b905	-0.24844	0.057274	0.073882	0.075361	-0.09688	0.221328	-0.1776	0.066264	0.046847	-0.03904
b906	-0.249	-0.04652	-0.0224	-0.02196	-0.0018	-0.33263	-0.45587	0.042973	0.018156	0.008234
b907	-0.25214	-0.04971	-0.05318	-0.05228	0.060137	-0.42875	-0.20868	0.014428	-0.05348	-0.04412
b908	-0.26924	-0.33919	-0.31918	-0.32084	0.28551	-0.14886	0.348952	-0.0628	-0.10111	0.047736
b909	-0.27941	-0.17059	-0.15614	-0.15632	0.128529	-0.10629	0.040853	-0.20831	0.131581	-0.00429
b910	-0.26341	0.320225	0.306411	0.305212	-0.27489	-0.04189	0.072556	-0.02622	0.023836	-0.01729
b911	-0.26208	-0.01252	0.003208	0.003518	-0.01017	0.249044	0.308366	-0.05898	0.137448	0.025966
b912	-0.26974	-0.21037	-0.18361	-0.18278	0.144474	0.069602	-0.23383	-0.00851	0.044897	-0.07316
b913	-0.25781	0.260548	0.288836	0.287409	-0.30378	-0.03715	-0.12182	0.066989	-0.0215	0.00236
b914	-0.25482	0.139376	0.119321	0.118233	-0.07944	0.141661	0.1708	-0.00481	-0.11701	0.013229
b915	-0.26416	-0.14667	-0.17019	-0.17083	0.187968	0.005846	-0.19611	0.108647	-0.08611	-0.02682
b916	-0.26436	0.044084	0.037761	0.039791	-0.04474	-0.10117	-0.11719	0.001573	-0.00407	0.035505
b917	-0.26262	0.047881	0.06414	0.063851	-0.08999	0.012355	0.125535	0.010456	0.006611	0.009507
b918	-0.26361	-0.06071	-0.05354	-0.05198	0.043806	0.042756	0.033936	0.059691	-0.0101	0.044766

b919	-0.26451	0.01417	0.005022	0.005148	0.002814	0.096571	0.061139	0.023978	-0.03793	-0.04474
b920	-0.26239	0.08142	0.068025	0.068502	-0.05803	0.230589	0.185954	-0.04007	-0.04469	0.046179
b921	-0.2552	0.096399	0.10093	0.100533	-0.10525	0.320729	0.149224	0.072446	-0.0421	-0.00941
b922	-0.24479	0.259092	0.265158	0.265059	-0.26049	0.300744	-0.01789	0.073502	-0.14053	-0.03955
b923	-0.23414	0.169572	0.155731	0.156239	-0.13161	0.103833	-0.21617	0.005167	-0.09974	0.013013
b924	-0.22765	0.035192	0.015153	0.017152	0.011878	-0.18692	-0.30648	0.103732	0.132013	0.098745
b925	-0.23692	-0.23449	-0.23476	-0.23478	0.23409	-0.15611	0.061114	0.028438	0.045251	-0.06661
b926	-0.25882	-0.23727	-0.2295	-0.22819	0.206422	0.010654	0.142512	0.038729	0.159181	0.040328
b927	-0.2481	0.171902	0.161336	0.162157	-0.15578	-0.01585	-0.03527	0.047732	0.058031	-0.01101
b928	-0.23328	0.208256	0.197725	0.19818	-0.18737	0.103656	0.139469	-0.14368	-0.00275	0.016195
b929	-0.25039	-0.14352	-0.13789	-0.13728	0.128485	0.039787	-0.06331	-0.12569	0.084486	-0.08118
b930	-0.25379	-0.06734	-0.04833	-0.04735	0.028648	-0.00049	-0.03472	0.004173	-0.054	0.097744
b931	-0.24282	0.081556	0.088017	0.089646	-0.09307	0.018669	0.027913	0.028428	0.096428	0.012006
b932	-0.23409	0.082914	0.044884	0.044763	0.005624	-0.09052	-0.11507	-0.10482	-0.02657	-0.02081
b933	-0.25055	-0.13142	-0.11241	-0.1123	0.083409	0.024275	0.126956	-0.03895	0.226921	0.00841
b934	-0.27758	-0.14418	-0.09649	-0.09909	0.042913	0.084182	0.080208	0.004083	0.043834	-0.01476
b935	-0.24266	0.182051	0.163032	0.158754	-0.12597	0.083244	0.00658	0.00437	0.085956	0.176675
b936	-0.21224	0.19155	0.128469	0.12417	-0.04811	0.134663	0.062011	0.077088	0.027039	-0.08013
b937	-0.21854	-0.05207	-0.05873	-0.05806	0.058519	0.063471	-0.09173	-0.01004	-0.16069	-0.10526
b938	-0.22929	-0.07433	-0.07497	-0.07529	0.075385	0.164272	0.096814	-0.08092	0.109251	0.101854
b939	-0.21652	0.100731	0.11857	0.122361	-0.13166	0.021274	-0.15992	-0.05767	-0.03199	-0.00253
b940	-0.17039	0.202627	0.224861	0.222019	-0.2329	-0.2425	-0.29118	-0.00068	0.133869	-0.02354
b941	-0.21372	-0.39359	-0.39686	-0.39569	0.381793	-0.00364	0.211872	0.030113	-0.11485	0.007078
b942	-0.27547	-0.35198	-0.36441	-0.36758	0.363341	-0.16023	-0.1483	0.098648	0.071732	0.122452
b943	-0.2242	0.308619	0.296899	0.307785	-0.30347	-0.17213	-0.04301	-0.1254	-0.04937	-0.03545
b944	-0.22129	0.069372	0.078576	0.081679	-0.10251	0.08086	0.242329	0.005884	0.300433	-0.0378
b945	-0.27109	-0.23684	-0.21837	-0.20188	0.157008	-0.13938	-0.22952	-0.07253	-0.05107	0.053901
b946	-0.26822	0.014636	0.019711	0.022028	-0.02202	-0.14969	-0.02115	-0.04609	0.084403	0.030986
b947	-0.24872	0.099718	0.067976	0.0717	-0.03273	0.048822	0.183999	0.004202	-0.0415	-0.09728
b948	-0.23988	0.018814	-0.0181	-0.01492	0.054004	0.048613	-0.00922	0.09166	-0.13282	0.077385
b949	-0.25165	-0.05606	-0.034	-0.03813	-0.00212	0.088077	0.038516	-0.01754	-0.08468	0.056413
b950	-0.25219	0.005856	0.028566	0.027474	-0.05472	-0.03721	-0.12895	0.015527	0.030722	0.052046
b951	-0.22174	0.111625	0.11935	0.11818	-0.10629	-0.11864	-0.12005	0.045876	0.031443	-0.08396
b952	-0.24634	-0.20094	-0.16826	-0.16819	0.125071	0.1463	0.239609	-0.0644	-0.19213	0.068934
b953	-0.28113	-0.17204	-0.16719	-0.16822	0.14481	0.124891	-0.01285	0.013465	-0.18855	0.087725
b954	-0.22503	0.299483	0.245823	0.240485	-0.16125	0.07138	-0.06658	0.2174	-0.03369	-0.06438
b955	-0.20212	0.190951	0.215624	0.21676	-0.22912	0.170964	0.089345	0.065342	0.01099	0.064102
b956	-0.23257	-0.19428	-0.11453	-0.12162	0.04154	-0.13951	-0.33151	-0.05877	0.011577	0.028029
b957	-0.24562	-0.02756	-0.07475	-0.07356	0.11033	-0.304	-0.18457	-0.02663	-0.05926	-0.07
b958	-0.25534	-0.06609	-0.14138	-0.14295	0.194206	-0.13107	0.16323	0.062019	-0.04286	0.069728
b959	-0.26923	-0.09358	-0.07667	-0.07072	0.036601	-0.08118	0.058765	-0.02376	-0.08282	-0.03729
b960	-0.27093	0.015976	0.065333	0.06309	-0.10667	-0.06546	0.018421	0.057942	-0.02818	-0.08056
b961	-0.26709	0.047055	0.079663	0.082305	-0.11068	0.126401	0.171117	0.003041	-0.03529	0.108472

b962	-0.27047	-0.02432	-0.02039	-0.0209	0.013804	0.202317	0.101127	0.048068	-0.12125	0.137149
b963	-0.25325	0.179591	0.145791	0.147262	-0.11202	0.043968	-0.17669	-0.26763	-0.02951	-0.22086
b964	-0.23338	0.129116	0.099035	0.099885	-0.06523	0.023621	-0.02068	0.009048	-0.06357	0.039432
b965	-0.26119	-0.17985	-0.18539	-0.18145	0.178135	0.006026	-0.02174	-0.05291	0.069064	0.051018
b966	-0.26921	-0.09149	-0.08843	-0.08758	0.077027	-0.11589	-0.11611	0.064967	0.014122	-0.06645
b967	-0.25424	0.117084	0.109681	0.115236	-0.1158	0.018254	0.161532	-0.06944	-0.01362	0.303198
b968	-0.25858	-0.02891	-0.06102	-0.05572	0.088717	0.097194	0.096122	0.04263	-0.02384	-0.29026
b969	-0.25772	-0.02344	-0.01353	-0.00833	0.000376	0.059296	-0.0376	0.122628	-0.08576	0.091924
b970	-0.24725	0.056544	0.098318	0.100297	-0.13853	0.087546	0.025139	0.0969	-0.03326	-0.02103
b971	-0.24133	0.089128	0.064639	0.068031	-0.04624	0.004677	-0.09157	-0.0077	-0.08087	-0.11766
b972	-0.2432	0.004017	-0.02009	-0.01755	0.036912	-0.15908	-0.17673	0.022682	-0.08597	0.205005
b973	-0.25841	-0.13008	-0.10379	-0.10038	0.067106	-0.2539	-0.11601	-0.13091	-0.0633	-0.08754
b974	-0.28419	-0.21163	-0.2197	-0.22145	0.231061	-0.10607	0.130386	0.043951	-0.07362	-0.0533
b975	-0.29539	-0.06884	-0.09057	-0.0894	0.109632	0.054561	0.204565	-0.03598	-0.08371	0.071235
b976	-0.26203	0.155951	0.168948	0.165353	-0.17888	0.141143	0.082961	-0.2192	0.00477	-0.05603
b977	-0.24597	0.14918	0.172262	0.172868	-0.19245	0.186776	0.061587	0.025679	0.052432	0.087653
b978	-0.25634	-0.04657	-0.04572	-0.04264	0.043834	0.092214	-0.10718	-0.02565	0.116016	-0.08187
b979	-0.25806	0.01856	-0.00658	-0.00401	0.028475	0.061818	-0.0259	0.09627	-0.03205	0.058182
b980	-0.2507	0.098382	0.099455	0.101127	-0.09379	0.110717	0.034638	-0.04623	-0.03456	-0.05665
b981	-0.23889	0.063135	0.086188	0.090524	-0.11049	0.084364	-0.02347	-0.06877	-0.03542	-0.17673
b982	-0.24329	-0.00909	-0.04243	-0.0433	0.077868	0.092393	0.003336	-0.15201	0.00447	0.191871
b983	-0.24526	-0.00935	-0.03673	-0.03438	0.055867	-0.01193	-0.09556	-0.03986	0.011181	0.054665
b984	-0.23369	0.05197	0.089659	0.090295	-0.1261	-0.08693	-0.09369	0.063416	0.013089	-0.02369
b985	-0.23963	-0.07092	-0.05367	-0.04874	0.027034	-0.11913	-0.0343	-0.17043	-0.01681	0.022407
b986	-0.25271	-0.13237	-0.14196	-0.138	0.146807	-0.12851	0.010794	-0.05908	0.095722	-0.10017
b987	-0.25867	-0.04064	-0.07501	-0.06919	0.099898	0.036505	0.202358	0.101075	-0.0683	0.097266
b988	-0.24726	0.119902	0.13473	0.134217	-0.14928	0.13345	0.099431	-0.09097	0.206502	-0.00582
b989	-0.22864	0.138715	0.168795	0.170828	-0.19956	0.162994	0.045738	-0.04133	-0.07002	-0.01254
b990	-0.2238	0.028403	0.041929	0.04337	-0.05787	0.157004	-0.0407	0.186626	0.003457	0.109874
b991	-0.22115	0.015283	-0.02401	-0.02621	0.063849	0.050736	-0.11291	0.037587	0.237996	0.004319
b992	-0.2177	0.020092	-0.02734	-0.02328	0.067896	-0.03587	-0.08272	-0.18094	-0.01634	-0.07425
b993	-0.22116	-0.00674	0.014967	0.016484	-0.03526	-0.11906	-0.1114	0.064907	-0.09576	0.030958
b994	-0.23287	-0.0961	-0.03367	-0.03481	-0.02732	-0.12011	0.026663	0.04888	0.146886	0.060711
b995	-0.25073	-0.11649	-0.09648	-0.09607	0.06655	-0.05021	0.090305	-0.03263	-0.02894	0.03128
b996	-0.24505	0.075155	0.048417	0.049269	-0.02222	-0.02563	0.016181	-0.04839	-0.14354	-0.08129
b997	-0.22899	0.099823	0.064731	0.060057	-0.01259	0.074576	0.11542	0.009807	0.13057	0.097302
b998	-0.23227	-0.04767	-0.05416	-0.05707	0.076648	0.072813	-0.00129	0.145574	-0.04091	-0.02013
b999	-0.22502	0.037304	0.034966	0.037426	-0.02141	-0.09999	-0.14176	0.051603	-0.12928	-0.0473
b1000	-0.21608	0.056133	0.064726	0.066874	-0.07918	-0.04897	0.053955	0.040592	0.034264	0.029382
b1001	-0.23911	-0.12264	-0.12205	-0.12151	0.102954	0.091447	0.16199	0.071807	-0.04401	0.054594
b1002	-0.23648	0.026886	0.042195	0.042066	-0.06668	0.023989	-0.07354	0.057477	0.000938	-0.11286
b1003	-0.20557	0.176764	0.189625	0.194441	-0.20476	0.096862	0.066774	-0.03464	-0.11651	0.110881
b1004	-0.21666	-0.04442	-0.08296	-0.07989	0.112859	0.109842	0.024067	0.002841	0.01844	-0.07635

b1005	-0.22618	-0.09006	-0.098	-0.09443	0.099807	0.060827	-0.04198	0.006557	-0.01996	0.194439
b1006	-0.21617	0.041103	0.084584	0.088623	-0.12942	0.129289	0.087522	0.207865	-0.01848	-0.1993
b1007	-0.19801	0.160178	0.124465	0.124875	-0.08217	0.038802	-0.07021	0.067283	-0.03597	-0.21152
b1008	-0.19101	0.062176	0.024334	0.026995	0.00738	-0.05384	-0.1123	0.310633	0.013063	0.287872
b1009	-0.21439	-0.12186	-0.07378	-0.07255	0.020574	-0.12924	-0.07679	-0.20973	0.02438	-0.12695
b1010	-0.23266	-0.10894	-0.11768	-0.11764	0.108652	-0.08026	0.023987	-0.08931	0.032404	-0.09904
b1011	-0.23101	0.027892	-0.00415	-0.00077	0.023419	0.050286	0.133386	-0.00691	0.028046	0.156703
b1012	-0.20905	0.068063	0.089621	0.096393	-0.115	0.102451	0.065979	0.004322	0.070602	-0.13185
b1013	-0.19696	0.054361	0.026714	0.025355	0.007617	0.244918	0.103266	0.289454	-0.05693	-0.01907
b1014	-0.18762	0.01843	-0.03693	-0.03507	0.087661	0.242577	-0.00111	-0.00607	-0.01067	0.10012
b1015	-0.15178	0.185027	0.181724	0.19019	-0.19329	0.11489	-0.13769	0.019858	-0.00417	-0.04478
b1016	-0.13689	0.099657	0.130877	0.131548	-0.15194	0.041912	-0.06157	-0.02229	-0.13822	-0.08575
b1017	-0.15978	-0.11317	-0.10742	-0.10072	0.082181	-0.13274	-0.18171	0.103153	0.025094	0.07954
b1018	-0.17667	-0.07729	-0.08116	-0.08186	0.073444	-0.20657	-0.11436	0.113402	0.031257	-0.03351
b1019	-0.18371	-0.05595	-0.071	-0.07389	0.085967	-0.14329	0.098915	-0.04165	0.078005	0.072517
b1020	-0.20377	-0.08767	-0.0904	-0.08269	0.072347	-0.02979	0.099386	0.106723	0.043897	0.0155
b1021	-0.20659	0.016362	0.054179	0.053307	-0.08978	0.028425	0.067691	0.046161	-0.06901	0.031474
b1022	-0.18444	0.07784	0.092575	0.0942	-0.10712	-0.00581	-0.04096	0.075005	-0.17526	0.008844
b1023	-0.17859	0.0297	-0.0043	-0.00225	0.034746	-0.13645	-0.1507	0.065748	-0.02056	-0.0684
b1024	-0.21638	-0.19429	-0.17384	-0.17531	0.152227	-0.06272	0.067648	0.12804	-0.0055	0.0388
b1025	-0.25478	-0.1528	-0.11623	-0.1139	0.073485	0.063809	0.132643	-0.10376	-0.03775	-0.05233

Table S1 (Continued)

Indices	Correlation coefficients
ShannonFD760-900	0.508034
CV760-900	0.490448
CV-Ri	0.488039
SD760-900	0.4811
CVRs	0.476317
MeanND760-900	0.440591
MeanR760-900	0.43956
M-FDD450-470	0.431709
MeanND640-700	0.427752
MeanND760-800	0.426342
MeanR760-800	0.42615
MeanR640-700	0.422968
CV510-570	0.422041
CV700-750	0.418142
MeanND700-750	0.41778
MeanR700-750	0.416665
MeanND720-740	0.408068
MeanR720-740	0.407282

CV720-740	0.406193
MeanD760-900	0.404625
CV490-550	0.394287
MeanND490-550	0.392535
SD-ID700-750	0.391988
MeanR490-550	0.390603
M-FD760-900	0.385423
M-FD900-920	0.383812
CV420-440	0.37828
CV673-683	0.374795
CV640-700	0.372195
MeanND680-700	0.370133
MeanR680-700	0.368086
CV680-700	0.367285
SD-R700-750	0.366961
CV-R700-750	0.366541
SD-ND700-750	0.366525
MeanND673-683	0.366456
MeanR673-683	0.366291
SD-ND640-700	0.360799
CV-R640-700	0.360055
SD-R640-700	0.359554
SD-ND630-690	0.353724
SD-R630-690	0.352615
CV-R630-690	0.352402
MeanR630-690	0.337452
MeanD760-800	0.320927
M-FD760-800	0.320926
MeanD700-750	0.315129
SD-ID720-740	0.314871
|CV|-FD490-550	0.314348
CV-R980-1000	0.312825
SD-R980-1000	0.312586
M-FD720-740	0.312437
SD-D980-1000	0.312397
MeanD720-740	0.311456
SD-ND650-670	0.309214
MeanND630-690	0.308704
M-FD700-750	0.308665
SD-R650-670	0.308335
|CV|-FD640-700	0.308041
CV-R650-670	0.30758
CV760-800	0.307354

MeanD900-920	0.305646
SD-ID680-700	0.304107
SD700-750	0.302682
SD720-740	0.30183
M-FDD640-700	0.301232
MeanR420-440	0.301222
CV800-960	0.300832
MeanND900-920	0.300328
MeanR900-920	0.29912
SD-ND980-1000	0.297934
MeanD673-683	0.29445
SD-ID450-470	0.291815
MeanND420-440	0.29066
SD-ID640-700	0.290547
SD-ID630-690	0.288315
SD-R630-650	0.279251
CV-R630-650	0.27887
SD-ND630-650	0.278483
SD-FD640-700	0.271742
CV-R420-440	0.269415
SD-R420-440	0.269114
SD-ND420-440	0.268837
SD-ID490-550	0.259511
|CV|-FD510-570	0.259141
SD-ID650-670	0.257698
SD-ID420-480	0.253146
SD-ID630-650	0.251674
SD800-960	0.251548
SD-ID673-683	0.249811
SD-ID420-440	0.249523
SD-ID510-570	0.247824
SD-FD630-690	0.24575
SD-R673-683	0.245014
CV-R673-683	0.244681
M-FD680-700	0.243259
M-FDD680-700	0.243219
SD-ND673-683	0.242637
MeanD680-700	0.239844
SD-R680-700	0.239359
CV420-480	0.238871
CV-R680-700	0.238145
SD-FD700-750	0.236406
SD-ND680-700	0.236289

SD680-700	0.2347
SD-R720-740	0.230717
SD-D640-700	0.230672
SD-ND720-740	0.230061
SD-FDR420-440	0.228319
SD-ID980-1000	0.227841
SDRs	0.227841
CV-R720-740	0.22741
MeanR420-480	0.226718
ShannonFD760-800	0.219109
M-FDD630-690	0.216117
SD-ID	0.215419
SD760-800	0.215023
CV630-690	0.215019
SD-FDR420-480	0.213127
MeanND420-480	0.212376
MeanND800-960	0.21131
SD-ND420-480	0.208412
SD-D630-690	0.208135
CV-R420-480	0.207871
SD-R420-480	0.207762
M-FDnd420-440	0.205445
SD-D700-750	0.202913
M-FDnd980-1000	0.202862
SD-FD650-670	0.202439
|CV|-FD420-440	0.202392
MeanD960-980	0.19691
SD-FDid420-480	0.196669
|CV|-D420-440	0.196503
ShannonFD720-740	0.195605
M-FDD650-670	0.195605
|CV|-D420-480	0.194737
|CV|-ID420-480	0.194679
|CV|-ID450-470	0.193215
MeanND960-980	0.19262
MeanR800-960	0.191338
|CV|-ND420-480	0.190517
|CV|-ND420-440	0.190211
SD-FDnd980-1000	0.187828
M-FDid510-570	0.186066
M-FD960-980	0.18579
SD-Ri	0.185706
|CV|-D490-550	0.184283

M-FDnd420-480	0.183065
ShannonFD700-750	0.182589
SD-FDid420-440	0.181839
MeanID630-650	0.181008
|CV|-D640-700	0.176838
MeanD800-960	0.17519
M-FD920-940	0.174838
|CV|-FD673-683	0.168391
|CV|-FDR900-920	0.16736
MeanD920-940	0.165741
|CV|-ND980-1000	0.163743
MeanR960-980	0.163571
|CV|-FD420-480	0.162944
M-FDid450-470	0.162694
MeanD640-700	0.161465
M-FD800-960	0.16138
MeanR920-940	0.161152
|CV-FDD|	0.160575
SD-FDnd420-440	0.160129
|CV|-FDnd680-700	0.150439
MeanND920-940	0.149557
SimpsonFD	0.148518
CV-FDID	0.144123
SD-FDnd420-480	0.143932
SD-FD980-1000	0.143112
SD-FD680-700	0.140098
SimpsonFD720-740	0.139132
SimpsonFD680-700	0.136602
|CV|-D980-1000	0.136193
SD-D720-740	0.135576
|CV|-FDD900-920	0.135194
|CV|-FDnd420-480	0.135037
M-FDD960-980	0.134277
M-FD640-700	0.131656
SD-FDnd900-920	0.130196
M-FDD900-920	0.128258
M-FDD673-683	0.127726
|CV|-D650-670	0.126953
SD-ND450-470	0.125049
SimpsonFD700-750	0.124358
|CV|-D630-690	0.123751
CV-R450-470	0.123439
SD-R450-470	0.123301

|CV|-ND650-670	0.123265
ShannonFD680-700	0.123255
SimpsonFD900-920	0.120785
MeanID650-670	0.120301
|CV|-ID650-670	0.119698
|CV|-ND630-690	0.119087
CV650-670	0.117873
Shannon960-980	0.116024
Simpson960-980	0.115511
|CV|-ID980-1000	0.11495
ShannonFD900-920	0.112674
|CV|-FDR510-570	0.110715
|CV|-FDnd900-920	0.104261
|CV|-ID630-690	0.103405
M-FDnd720-740	0.102043
M-FDnd920-940	0.098896
M-FDnd490-550	0.096341
MeanND980-1000	0.096189
|CV|-ND510-570	0.095529
SD-D673-683	0.09549
SD-ID900-920	0.094297
M-FDD760-800	0.093421
M-FDD760-900	0.09284
M-FDid490-550	0.09262
|CV-ID|	0.092302
|CV|-FDid760-800	0.089825
SD-FDid450-470	0.08759
MeanR980-1000	0.084721
MeanR510-570	0.083967
MeanD980-1000	0.082568
SD-ID920-940	0.081763
SD640-700	0.081329
|CV|-ID510-570	0.079463
|CV|-FDid420-440	0.079203
|CV|-ID420-440	0.078806
|CV|-D450-470	0.07863
|CV|-ND450-470	0.07611
M-FDR680-700	0.074207
|CV|-FD450-470	0.073875
|CV|-FD960-980	0.071819
MeanND510-570	0.071388
CV630-650	0.070648
SD-FDid630-650	0.070105

|CV|-FDR450-470	0.067363
SD-ND	0.066488
SD-R	0.06608
CV-R	0.065113
CV920-940	0.064446
|CV|-FD630-690	0.063674
SD-FDnd630-650	0.063471
SimpsonFD650-670	0.062316
SimpsonFD980-1000	0.062078
M-FDD420-440	0.0579
SD-FDnd630-690	0.057552
SD-FDnd640-700	0.056947
|CV|-FDD450-470	0.055819
M-FDid700-750	0.055288
SD-FD490-550	0.054654
M-FD980-1000	0.054551
SD-ID800-960	0.054537
SimpsonFD760-800	0.052438
SD-ID760-800	0.051835
M-FDR960-980	0.051804
SD-FDnd510-570	0.050815
SD-FDR630-650	0.050475
M-FDnd510-570	0.049732
SD-R900-920	0.049122
CV-R900-920	0.048625
ShannonFD920-940	0.047963
SD-ID760-900	0.047899
M-FDR490-550	0.046841
|CV|-FD920-940	0.046413
SD-ND900-920	0.04554
SD-ND490-550	0.044741
CV900-920	0.042192
|CV|-FDid980-1000	0.039742
M-FDid630-650	0.039731
SimpsonFD760-900	0.038968
|CV|-FDnd650-670	0.038798
|CV|-FDR420-480	0.037247
M-FDnd700-750	0.036851
|CV|-FDR650-670	0.036255
ShannonFD800-960	0.034703
SimpsonFD800-960	0.034443
|CV|-FDid450-470	0.034388
|CV|-FDD760-900	0.033358

M-FDR760-800	0.02942
|CV|-FDid650-670	0.028386
SD-FD673-683	0.025936
SD-ID960-980	0.024424
|CV|-FDD980-1000	0.024012
M-FDnd450-470	0.021884
|CV|-FDR980-1000	0.020891
SD-FDid980-1000	0.02033
|CV|-FDR630-690	0.018833
SD-ND510-570	0.016692
SimpsonFD630-650	0.016623
Simpson450-470	0.015781
Shannon450-470	0.015409
M-FDR673-683	0.014217
Shannon980-1000	0.013448
M-FDR920-940	0.01289
SD-FDnd450-470	0.01217
SD-FDR640-700	0.012157
Simpson980-1000	0.011686
SD-FDid490-550	0.010334
SD-FD720-740	0.008411
SD-FDid640-700	0.008222
|CV|-FDR920-940	0.007405
SD-ND920-940	0.007397
SD-R490-550	0.007027
MeanR450-470	0.006491
SD-FDR630-690	0.006224
M-FDid420-480	0.005551
M-FDnd650-670	0.005315
|CV|-FDD760-800	0.005312
SD-FDid630-690	0.005305
SD-R920-940	0.004983
CV-R490-550	0.004569
SD-FDR680-700	0.004474
SD-FDnd673-683	0.004433
CV-R920-940	0.004261
M-FDid673-683	0.003725
|CV|-FDD650-670	0.003007
|CV|-FDR760-900	0.002916
M-FDid760-900	0.002764
M-FDR450-470	0.0026
M-FDR510-570	0.001697
M-FDR980-1000	0.000396

M-FDR760-900	9.07E-05
MeanND450-470	4.13E-05
|CV|-FDnd920-940	-0.00081
|CV|-FDD420-440	-0.00455
|CV|-FDnd960-980	-0.0053
SD-FDR450-470	-0.0066
M-FDnd673-683	-0.00687
M-FDR800-960	-0.0071
SimpsonFD630-690	-0.00739
|CV|-ND920-940	-0.00824
|CV|-FDR490-550	-0.00881
|CV|-D920-940	-0.00982
|CV|-FDid680-700	-0.01163
|CV|-ID920-940	-0.01273
M-FDR900-920	-0.01369
Simpson900-920	-0.01406
Shannon900-920	-0.01412
SD-FDid650-670	-0.01558
SD-FDid960-980	-0.01585
SD-FDR760-800	-0.01599
|CV|-FDR800-960	-0.01946
|CV|-FD630-650	-0.02003
|CV|-FDR960-980	-0.02008
SD-FDR650-670	-0.02074
|CV|-FDD490-550	-0.02134
CV-FDR	-0.02141
|CV|-FD650-670	-0.02144
ShannonFD650-670	-0.02183
SD-FDid680-700	-0.02265
|CV|-FDnd450-470	-0.02311
|CV|-FDid960-980	-0.02348
SD-FDnd490-550	-0.02385
M-FDid420-440	-0.02431
CV-FDND	-0.02501
CV-R510-570	-0.02521
SD-FDR673-683	-0.02536
SD-R510-570	-0.02545
SD-FDid760-800	-0.02569
ShannonFD980-1000	-0.02576
M-FDid630-690	-0.02712
M-FDid640-700	-0.02733
CV-FDD	-0.02748
|CV|-FDnd640-700	-0.02786

CV450-470	-0.02789
M-FDD630-650	-0.02794
M-FDR700-750	-0.02826
SD920-940	-0.03019
|CV|-FDD920-940	-0.03029
M-FDid920-940	-0.03322
|CV|-FD980-1000	-0.03396
|CV|-FDnd630-650	-0.03476
ShannonFD630-650	-0.03518
|CV-FDND|	-0.03536
|CV|-FDR673-683	-0.03564
SD-ND800-960	-0.03569
SD-R800-960	-0.03576
CV-R800-960	-0.03595
|CV|-FDnd420-440	-0.03823
|CV|-FDR640-700	-0.0385
CV980-1000	-0.03883
M-FDid900-920	-0.04063
M-FDid980-1000	-0.04071
|CV|-FDR420-440	-0.04102
SD-D650-670	-0.04283
|CV|-ND640-700	-0.04311
SD-FDR980-1000	-0.04332
|CV|-FDnd800-960	-0.04343
SD-FDid510-570	-0.04347
|CV|-FDid640-700	-0.04375
Shannon920-940	-0.04409
Simpson920-940	-0.04483
|CV|-FDid490-550	-0.04508
|CV|-FDnd760-800	-0.04603
SimpsonFD450-470	-0.0479
SD-ND760-900	-0.048
SD-R760-900	-0.04821
CV-R760-900	-0.04851
|CV|-FDnd630-690	-0.04874
SD-FDnd650-670	-0.04995
|CV|-FDid700-750	-0.04995
SD-FDid673-683	-0.05063
|CV|-FDD800-960	-0.05066
|CV|-FD800-960	-0.05142
M-FDR650-670	-0.05233
SD-D900-920	-0.05237
SD-FDND	-0.05311

SD-FDND	-0.05311
SD-FDR510-570	-0.05336
M-FDnd680-700	-0.0546
M-FDid650-670	-0.05528
SD-FDnd960-980	-0.05559
|CV|-FDid760-900	-0.05666
M-FDnd960-980	-0.059
|CV|-FDid920-940	-0.05934
SD-FDR920-940	-0.06005
|CV|-FDid720-740	-0.06068
SD-FDR960-980	-0.06074
M-FDnd800-960	-0.06135
SimpsonFD920-940	-0.06191
M-FDnd640-700	-0.06231
M-FDnd760-900	-0.06232
|CV|-ID630-650	-0.06324
M-FDnd630-690	-0.06341
|CV|-ND630-650	-0.06342
|CV|-FDR630-650	-0.06345
|CV|-D630-650	-0.06359
SD-FDnd800-960	-0.06378
SD-FDnd760-900	-0.06382
M-FDnd630-650	-0.0648
SD-FDR760-900	-0.06545
M-FDR720-740	-0.06637
|CV-FDID|	-0.06644
M-FDid720-740	-0.06666
|CV|-FDR760-800	-0.06682
M-FDnd760-800	-0.06738
SD-FDR490-550	-0.06798
SimpsonFD960-980	-0.06936
SD-FDid920-940	-0.0698
SD-FDID	-0.07034
SD-FDID	-0.07034
M-FDD980-1000	-0.07217
SD-FDid700-750	-0.07273
SD-FDD900-920	-0.07319
|CV|-D760-800	-0.07366
|CV|-ND760-800	-0.07367
|CV|-ID760-800	-0.07371
M-FDid760-800	-0.07411
|CV|-FDD960-980	-0.07442
SD-R960-980	-0.07491

SD-ND960-980	-0.07512
SD-FDnd680-700	-0.07592
CV-R960-980	-0.07598
|CV|-FDid673-683	-0.07633
M-FDD800-960	-0.07655
SD-FDR720-740	-0.07701
|CV|-FDid510-570	-0.0777
M-FDid800-960	-0.07791
|CV|-FDnd490-550	-0.07795
|CV|-FDid630-650	-0.07919
|CV|-FDid630-690	-0.07987
|CV|-ID640-700	-0.08092
|CV|-D960-980	-0.08195
ShannonFD420-440	-0.08217
M-FDR630-690	-0.08247
M-FDR640-700	-0.08285
Simpson650-670	-0.08412
Shannon650-670	-0.08457
MeanID980-1000	-0.08459
|CV|-FDnd510-570	-0.08502
|CV|-ND800-960	-0.08511
|CV|-ND960-980	-0.08516
M-FDR630-650	-0.0871
|CV|-ID960-980	-0.08749
|CV|-D800-960	-0.08781
|CV|-ID800-960	-0.08786
SD-R760-800	-0.088
SD-ND760-800	-0.08812
M-FDid960-980	-0.08819
CV-R760-800	-0.08846
Shannon630-650	-0.0888
SD-FDid760-900	-0.0888
|CV|-D900-920	-0.08884
Simpson630-650	-0.08916
|CV|-ID900-920	-0.08917
|CV|-ND900-920	-0.08933
|CV|-FDid900-920	-0.08998
|CV|-FDid420-480	-0.09035
|CV|-FDD640-700	-0.09221
CV-ID	-0.0923
SD-FDnd760-800	-0.09269
SD-FDnd920-940	-0.09663
SD-FDD920-940	-0.09707

SD-FDR900-920	-0.09719
ShannonFD960-980	-0.09727
SD900-920	-0.10112
|CV|-FDD420-480	-0.10124
SD-FDR800-960	-0.10172
SD-FDid800-960	-0.10232
M-FDid680-700	-0.10255
|CV|-FDnd980-1000	-0.10341
|CV|-FDD630-650	-0.10512
SD-FDR	-0.10811
SD-FDR	-0.10811
|CV|-FDid800-960	-0.10834
M-FDnd900-920	-0.10923
|CV|-FDD673-683	-0.11113
|CV-FDR|	-0.11167
ShannonFD673-683	-0.11245
SD-FDR700-750	-0.11439
|CV|-FDnd673-683	-0.11456
SD-D680-700	-0.11497
SD-D920-940	-0.11526
ShannonFD630-690	-0.11787
M-FDD420-480	-0.11846
Shannon630-690	-0.11916
Simpson630-690	-0.12004
SD-FDid720-740	-0.12096
MeanID920-940	-0.12332
|CV|-FDnd760-900	-0.12454
|CV|-FDD510-570	-0.12529
SimpsonFD673-683	-0.12628
ShannonFD450-470	-0.12777
SD-FDD800-960	-0.12843
|CV|-FDR680-700	-0.13061
CV960-980	-0.13092
|CV|-D760-900	-0.13312
SD-FDid900-920	-0.13337
|CV|-ND760-900	-0.13572
SD-FDD760-800	-0.13601
SD-FDD673-683	-0.13821
|CV|-ID760-900	-0.13859
|CV|-FDnd700-750	-0.14053
SD-FDnd700-750	-0.14117
|CV|-FDD700-750	-0.1414
|CV|-ID720-740	-0.14756

M-FDR420-480	-0.14929
ShannonFD490-550	-0.14997
|CV|-FDnd720-740	-0.15083
M-FDD490-550	-0.15201
SD-FDD980-1000	-0.15226
CV-FD	-0.15274
|CV|-FDD630-690	-0.15924
SD-FD510-570	-0.15994
|CV|-D700-750	-0.16088
SimpsonFD420-440	-0.16113
SD-FD960-980	-0.16153
SimpsonFD490-550	-0.16205
|CV|-ND673-683	-0.16364
|CV|-ND700-750	-0.16511
SD-FDD700-750	-0.16708
SD-FDnd720-740	-0.16729
|CV|-FD700-750	-0.16733
SD-FD920-940	-0.16822
|CV|-D673-683	-0.16857
|CV|-ID700-750	-0.16863
SD-FD	-0.17191
|CV|-FD680-700	-0.17387
CV-D	-0.17406
MeanID960-980	-0.17453
SD-FD900-920	-0.18196
|CV|-D510-570	-0.18335
SD-FDD720-740	-0.18382
|CV|-FDD680-700	-0.18785
|CV|-FDR720-740	-0.18866
SD-D800-960	-0.19182
|CV|-FDR700-750	-0.19345
MeanR650-670	-0.19536
M-FDD510-570	-0.1959
MeanND650-670	-0.19592
SD980-1000	-0.19721
ShannonFD	-0.19748
|CV|-FDD720-740	-0.2016
|CV|-ID673-683	-0.2018
Shannon760-800	-0.20267
Simpson760-800	-0.20417
SD-D960-980	-0.20539
|CV|-FD760-900	-0.2101
Simpson420-480	-0.21057

Shannon420-480	-0.21179
M-FDR420-440	-0.21379
|CV|-D720-740	-0.21487
SD-FDD	-0.21622
SD-FDD680-700	-0.21646
SD-FD800-960	-0.21944
|CV|-ND720-740	-0.22071
SD-D760-900	-0.22299
SD-FDD960-980	-0.22447
ShannonFD420-480	-0.22654
SD-FDD630-650	-0.22728
SimpsonFD420-480	-0.22831
|CV|-FD900-920	-0.23022
MeanID800-960	-0.23102
Shannon800-960	-0.23225
Simpson800-960	-0.23246
SD-D	-0.23269
|CV|-ID490-550	-0.23331
SD-D490-550	-0.23531
MRi980-1000	-0.23826
SD-D630-650	-0.24047
MRi920-940	-0.2405
SD673-683	-0.24189
SimpsonFD640-700	-0.24504
Simpson680-700	-0.24732
MeanR630-650	-0.24791
MeanND630-650	-0.2482
Shannon680-700	-0.25002
|CV|-ND490-550	-0.25321
Simpson640-700	-0.25623
SimpsonFD510-570	-0.25997
|CV|-FD720-740	-0.26043
MRi960-980	-0.26135
MRi900-920	-0.26335
Shannon640-700	-0.26416
CV-ND	-0.26654
M-FDD920-940	-0.27117
|CV|-D680-700	-0.27309
Simpson673-683	-0.27556
Shannon673-683	-0.27599
ShannonFD510-570	-0.27682
MRi800-960	-0.27704
MeanID900-920	-0.28125

SD960-980	-0.28676
SD-FD760-900	-0.28717
Simpson420-440	-0.28933
M-FDD700-750	-0.28998
Shannon420-440	-0.2903
MeanID673-683	-0.29641
|CV|-ID680-700	-0.29691
ShannonFD640-700	-0.2976
MRi760-900	-0.29775
MeanD650-670	-0.30117
M-FD650-670	-0.30293
MeanID680-700	-0.30422
SD650-670	-0.30525
|CV|-ND680-700	-0.30782
SD-FDD640-700	-0.30808
MeanID420-440	-0.30904
SD-FDD630-690	-0.31029
MeanID420-480	-0.31234
SD-D760-800	-0.31299
MRi760-800	-0.31629
M-FD673-683	-0.318
SD-FD760-800	-0.31883
MeanID450-470	-0.31938
M-FDD720-740	-0.32204
Shannon490-550	-0.3245
Simpson490-550	-0.32636
Shannon720-740	-0.33051
Simpson720-740	-0.33102
M-FD630-690	-0.33744
MeanD630-690	-0.33947
MeanD630-650	-0.34135
Shannon700-750	-0.3428
SD-D420-440	-0.34536
M-FD630-650	-0.34584
Simpson700-750	-0.34605
MeanID640-700	-0.35833
SD630-690	-0.3593
|CV|-FD760-800	-0.36116
SD-FDD420-440	-0.36282
MeanID490-550	-0.36756
Shannon510-570	-0.37419
SD-FDD760-900	-0.37423
Simpson510-570	-0.38027

SD-FD630-650	-0.38247
SD490-550	-0.38506
SD-FDD650-670	-0.38894
SD-D510-570	-0.3933
MeanID720-740	-0.39383
SD630-650	-0.39544
SD-FDD450-470	-0.40633
MeanID700-750	-0.40922
SD-FDD420-480	-0.40928
MeanID760-800	-0.40995
SD420-440	-0.41074
MeanID760-900	-0.41323
MRi720-740	-0.41496
Shannon760-900	-0.41643
Simpson760-900	-0.41697
SD-FD420-440	-0.41843
MeanD420-440	-0.42789
MeanD490-550	-0.43013
ShannonRs	-0.43034
SimpsonRs	-0.43628
MeanID510-570	-0.44268
M-FD420-440	-0.4427
M-FD490-550	-0.4428
MRi700-750	-0.44548
SD-FDD510-570	-0.44586
ShannonRi	-0.45065
MeanID630-690	-0.454
SimpsonRi	-0.45885
SD510-570	-0.46816
M-FD510-570	-0.47539
MeanD510-570	-0.47693
MRi680-700	-0.4909
MRi673-683	-0.49152
MRi640-700	-0.49264
MRi650-670	-0.49312
MRi630-690	-0.4934
MRi630-650	-0.49567
MRi420-440	-0.49876
MRi420-480	-0.50023
MRi450-470	-0.50155
MRi510-570	-0.50374
MRi490-550	-0.50436
SD-FDD490-550	-0.50711

MeanD420-480	-0.50964
M-FD420-480	-0.51022
SD420-480	-0.51151
SD-D450-470	-0.51631
MeanD450-470	-0.51926
M-FD450-470	-0.52483
SD-D420-480	-0.52748
SD450-470	-0.54286
SD-FD450-470	-0.55688
SD-FD420-480	-0.58293

Table S1 (Continued)

The determining coefficients between the combinations on sensitive wavebands and species richness

	R2
Index1	0.097
Index2	0.109
Index3	0.159
Index4	0.125
Index5	0.152
Index6	0.143
Index7	0.135
Index8	0.182
Index9	0.177
Index10	0.108
Index11	0.119
Index12	0.182
Index13	0.075
Index14	0.096
Index15	0.155
Index16	0.027
Index17	0.19
Index18	0.056
Index19	
Index20	0.145
Index21	0.135
Index22	
Index23	0.065
Index24	0.189
Index25	0.104
Index26	0.142
Index27	0.181
Index28	0.136

Index29	0.138
Index30	0.142
Index31	0.145
Index32	0.105
Index33	0.095
Index34	0.089
Index35	0.131
Index36	0.16
Index37	0.154
Index38	0.135
Index39	0.163
Index40	0.124
Index41	0.034
Index42	0.08
Index43	0.14
Index44	0.143
Index45	0.134
Index46	0.176
Index47	0.091
Index48	0.188
Index49	0.18
Index50	0.113
Index51	0.115
Index52	0.166
Index53	0.137
Index54	0.135
Index55	0.121
Index56	0.031
Index57	0.136
Index58	
Index59	0.143
Index60	0.169
Index61	0.064
Index62	0.146
Index63	0.176
Index64	0.186
Index65	0.179
Index66	0.188
Index67	0.174
Index68	0.167
Index69	**0.195**
Index70	0.073
Index71	0.042

Index72	0.094
Index73	0.15
Index74	0.171
Index75	0.137
Index76	
Index77	0.151
Index78	**0.195**
Index79	0.17
Index80	0.122
Index81	0.081
Index82	0.085
Index83	0.159
Index84	0.059
Index85	
Index86	
Index87	0.128
Index88	0.07
Index89	
Index90	0.165
Index91	0.085
Index92	0.085
Index93	0.165
Index94	0.143
Index95	0.162
Index96	
Index97	
Index98	
Index99	0.132
Index100	0.083
Index101	**0.212**
Index102	0.065
Index103	0.065
Index104	0.092
Index105	**0.208**
Index106	
Index107	**0.214**
Index108	**0.207**
Index109	0.117
Index110	0.172
Index111	0.078
Index112	
Index113	0.057
Index114	0.168

Index115	
Index116	
Index117	0.128
Index118	0.128
Index119	**0.2**
Index120	0.156
Index121	**0.212**
Index122	0.171

Table S2 The potential spectral indices selected by correlation coefficients (r>0.4) from Fig S2

Indices	Pearson's correlation coefficients
ND528	**0.514215**
R528	**0.513108**
FDD588	**0.509837**
ShannonFD760-900	**0.508034**
FD753	**0.496554**
CV760-900	**0.490448**
Index121	**0.488208**
CV-Ri	**0.488039**
FDD585	**0.487593**
ND725	**0.484613**
R725	**0.484134**
SD760-900	**0.4811**
Index78	**0.480998**
D590	**0.480274**
CVRs	**0.476317**
FDR526	**0.475601**
FDD526	**0.468528**
Index69	**0.467121**
FD754	**0.466147**
Index48	**0.458988**
FD825	0.457908
Index122	0.456806
FDD492	0.455913
ND726	0.45442
ND517	0.453864
R726	0.453621
R517	0.452774
FD625	0.450564
Index64	0.450211
Index66	0.450116

Index27	0.450114
ND711	0.447175
R711	0.446098
Index37	0.446034
FDND526	0.444552
ND719	0.444464
R719	0.443748
FDND515	0.443719
ND736	0.443256
R736	0.442869
Index49	0.441141
Index120	0.441132
MeanND760-900	0.440591
Index65	0.43998
MeanR760-900	0.43956
Index46	0.437041
Index63	0.436982
Index26	0.4359
ND718	0.435228
Index67	0.434647
R718	0.434073
M-FDD450-470	0.431709
Index39	0.430533
ND737	0.430438
R737	0.430361
Index28	0.429564
ND710	0.429537
FDR515	0.428736
R710	0.427877
MeanND640-700	0.427752
R825	0.427543
ND529	0.427394
ND825	0.427152
FDD619	0.426862
R529	0.426468
MeanND760-800	0.426342
MeanR760-800	0.42615
Index36	0.426117
Index90	0.425756
Index93	0.425756

FDND758	0.425609
ND702	0.425046
Index60	0.424671
ND621	0.424356
R621	0.424217
D825	0.423788
Index75	0.423472
ND740	0.423029
R702	0.422998
MeanR640-700	0.422968
FDD485	0.422947
Index95	0.422512
R740	0.422287
CV510-570	0.422041
ND729	0.421979
Index68	0.421959
R729	0.421442
Index79	0.421291
Index114	0.420708
ND701	0.420418
FD624	0.419195
Index83	0.418805
CV700-750	0.418142
Index3	0.417863
MeanND700-750	0.41778
R701	0.416894
MeanR700-750	0.416665
Index52	0.416461
ND714	0.415724
ND518	0.415236
R714	0.414504
R518	0.41272
ND520	0.411625
R520	0.410062
MeanND720-740	0.408068
FDD618	0.408034
ND527	0.40762
Index5	0.40744
R527	0.407434
MeanR720-740	0.407282
FD626	0.407147

CV720-740	0.406193
ND521	0.405972
FDD515	0.405943
R521	0.404857
ND739	0.404653
MeanD760-900	0.404625
FDND879	0.404496
R739	0.40429
Index94	0.402472