

**Table S4.** AICc values for model selection using regularization. MAXENT software was used to run individual species models using regularization multiplier values from 1 to 10. AICc values were calculated based on Warren and Seifert (2011). Model with the smallest AICc value for each species was selected as the most parsimonious model and taken further for analysis.

<i>Species</i>	<i>Regularization value</i>									
	1	2	3	4	5	6	7	8	9	10
<i>Anacamptis coriophora</i>	477	491	484	480	482	482	480	480	480	480
<i>Cephalanthera damasonium</i>	313	285	288	294	295	300	297	301	304	303
<i>Cephalanthera longifolia</i>	197	202	203	205	206	208	209	211	210	210
<i>Cephalanthera rubra</i>	640	616	601	608	607	609	614	617	608	613
<i>Dactylorhiza euxina</i>	396	299	303	300	300	302	300	300	300	300
<i>Dactylorhiza incarnata subsp. cilicica</i>	623	585	574	580	590	589	591	590	596	592
<i>Dactylorhiza urvilleana</i>	871	865	863	866	859	860	869	867	876	879
<i>Dactylorhiza viridis</i>	207	208	209	211	211	207	210	210	210	210
<i>Epipactis helleborine</i>	256	257	264	260	271	270	271	272	270	270
<i>Epipactis persica</i>	163	163	162	165	167	165	165	165	165	165
<i>Epipactis persica</i>	163	163	162	165	167	165	165	165	165	165
<i>Gymnadenia conopsea</i>	472	461	459	459	461	463	460	459	465	462
<i>Limodorum abortivum</i>	192	193	194	197	199	200	196	203	202	204
<i>Neotinea tridentata</i>	281	280	287	290	291	293	293	293	290	300
<i>Neottia nidus-avis</i>	281	270	287	290	294	293	293	299	288	300
<i>Ophrys scolopax subsp. cornuta</i>	169	169	170	170	173	175	177	172	171	180
<i>Orchis mascula</i>	824	813	820	829	830	828	825	824	827	827
<i>Orchis punctulata</i>	170	180	176	183	180	182	180	180	180	180
<i>Orchis purpurea</i>	161	160	160	161	162	165	165	165	165	165
<i>Platanthera chlorantha</i>	462	450	447	448	452	450	450	450	450	450
<i>Traunsteinera sphaerica</i>	135	136	136	137	135	135	135	135	135	135