Supplementary Materials

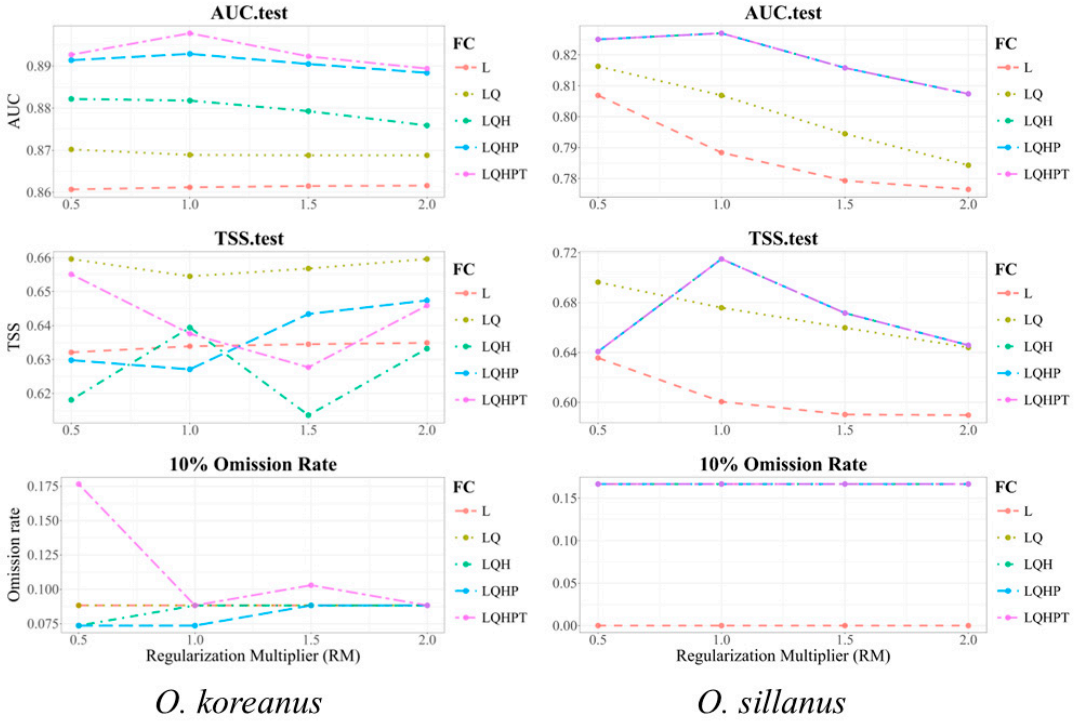


Figure S1. Feature classes and regularization multipliers used to build the species distribution models of the two *Onychodactylus* species in the study area.

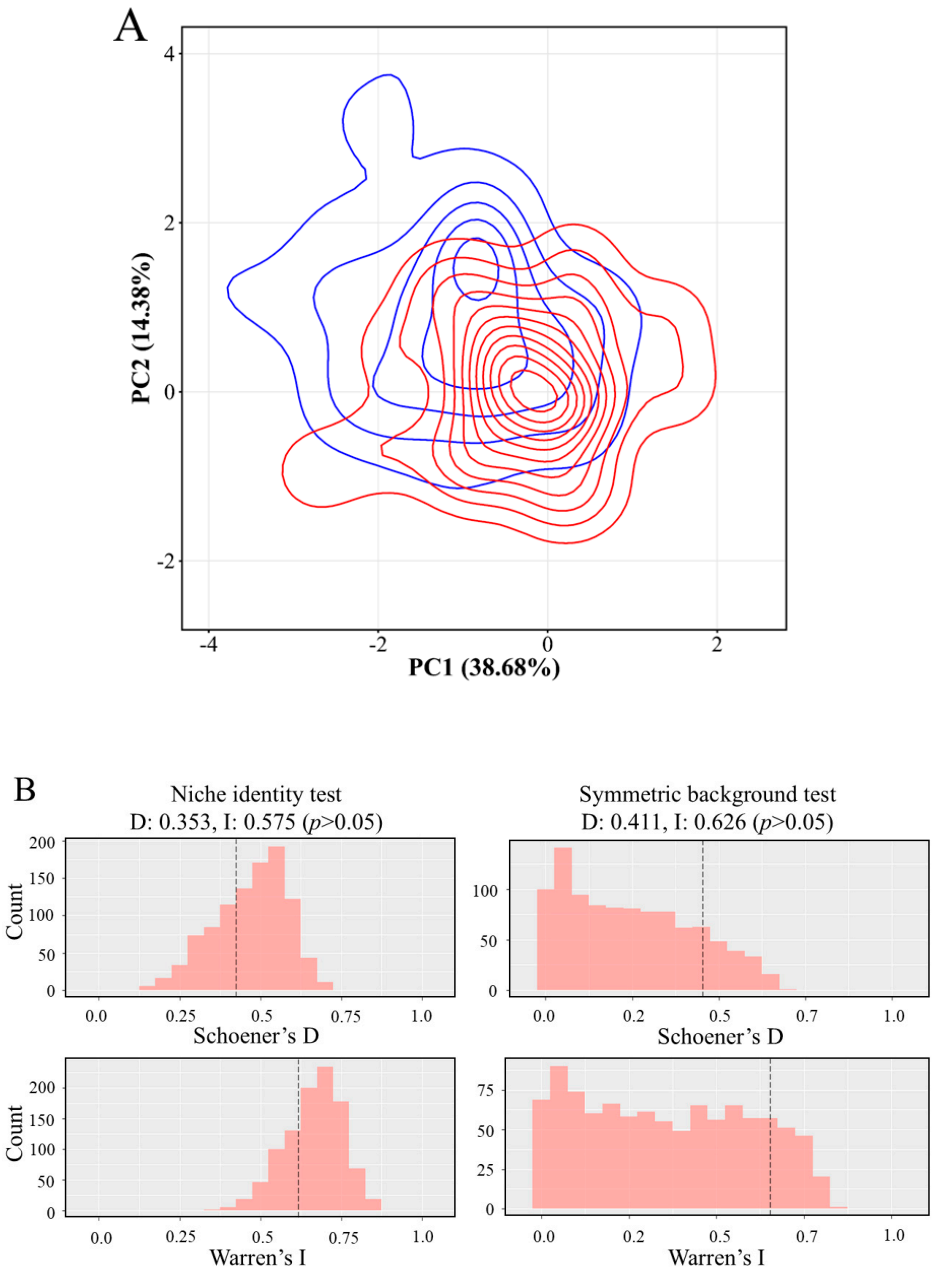


Figure S2. The result of the niche overlap analysis: (A) the quantified niche overlap between *Onychodactylus koreanus* (blue) and *O. sillanus* (red) in the two-dimensional environmental space defined by eight environmental variables, (B) the results of niche identity test (left column) and symmetric background test (right column) with Schoener's D and Warren's I indices.

Table S1. The species occurrence data of two *Onychodactylus* species in the study area used for species distribution modeling. NES, Natural Environment Survey; GBIF, Global Biodiversity Information Facility; KNPS, Korea National Park Service. The data from the KNPS are available upon reasonable request to the corresponding author following the data policy of the KNPS.

Species	Longitude	Latitude	Source
O. koreanus	128.2761	35.60833	4th NES
O. koreanus	128.0528	35.66331	4th NES
O. koreanus	128.0811	35.51028	4th NES
O. koreanus	128.0929	35.85978	4th NES
O. koreanus	128.0127	35.86400	4th NES
O. koreanus	127.6536	36.61268	4th NES
O. koreanus	127.8472	36.07651	4th NES
O. koreanus	127.9786	35.83383	4th NES
O. koreanus	128.5288	36.06022	4th NES
O. sillanus	128.9298	35.46825	4th NES
O. koreanus	128.5575	36.03248	4th NES
O. koreanus	128.5110	36.08446	4th NES
O. koreanus	128.4520	36.07621	4th NES
O. koreanus	127.8570	35.34849	5th NES
O. koreanus	127.8709	35.38410	5th NES
O. koreanus	128.4905	35.16805	5th NES
O. koreanus	128.2021	35.41460	5th NES
O. koreanus	128.9036	36.80241	5th NES
O. koreanus	127.6405	35.60221	5th NES
O. sillanus	129.1612	35.18832	5th NES
O. koreanus	127.6801	35.60596	5th NES
O. koreanus	127.7310	35.41146	5th NES
O. koreanus	128.7180	35.17667	5th NES
O. sillanus	129.1393	35.32483	5th NES
O. sillanus	129.0259	35.53116	5th NES
O. koreanus	127.7779	35.40433	5th NES
O. koreanus	129.2524	36.29237	5th NES
O. koreanus	127.5430	36.67850	5th NES
O. koreanus	129.2605	36.68416	5th NES
O. koreanus	129.1313	36.47139	5th NES
O. koreanus	129.2228	36.31842	5th NES
O. koreanus	128.8600	36.33611	5th NES
O. koreanus	128.9799	36.33469	5th NES
O. koreanus	127.5808	35.36861	GBIF
O. sillanus	129.0616	35.31258	GBIF
O. koreanus	127.5525	35.29361	GBIF
O. koreanus	127.5868	36.5600	GBIF
O. koreanus	128.0479	35.85697	GBIF
O. koreanus	128.1675	35.98869	GBIF
O. koreanus	128.0350	35.94826	GBIF
O. koreanus	128.0574	35.90526	GBIF
O. koreanus	127.6644	35.60670	GBIF

O. koreanus	128.1711	35.74765	GBIF
O. koreanus	127.6995	35.63021	GBIF
O. koreanus	127.7629	35.78169	GBIF
O. koreanus	128.0374	35.33876	GBIF
O. koreanus	128.7797	35.99647	GBIF
O. koreanus	128.0410	35.71270	GBIF
O. koreanus	128.4935	36.05309	GBIF
O. koreanus	128.6559	36.01314	GBIF
O. koreanus	128.6241	35.98363	GBIF
O. koreanus	128.7148	35.97890	GBIF
O. koreanus	128.4720	36.16879	GBIF
O. koreanus	128.5825	36.13181	GBIF
O. koreanus	128.4706	36.09444	GBIF
O. koreanus	128.5204	36.1913	GBIF
O. koreanus	129.2019	36.37431	GBIF
O. koreanus	127.5734	35.29431	GBIF
O. koreanus	129.2289	36.59222	GBIF
O. koreanus	129.2067	36.71662	GBIF
O. koreanus	129.2553	36.72439	GBIF
O. koreanus	127.7796	35.20141	GBIF
O. koreanus	127.4753	35.92082	GBIF
O. koreanus	127.4290	35.88808	GBIF
O. koreanus	128.0461	35.73915	GBIF
O. koreanus	128.1175	35.62522	GBIF
O. koreanus	127.6918	35.33660	GBIF
O. koreanus	127.6697	35.25134	GBIF
O. koreanus	127.7780	35.25390	GBIF
O. sillanus	128.7143	35.80219	GBIF
O. koreanus	127.4871	35.93829	GBIF
O. koreanus	128.1303	36.60952	GBIF
O. koreanus	128.1675	36.76974	GBIF
O. koreanus	127.4468	35.6368	GBIF
O. koreanus	127.6065	35.13844	GBIF
O. koreanus	127.4735	35.66945	GBIF
O. koreanus	127.9382	35.76865	GBIF
O. koreanus	127.9131	35.60027	GBIF
O. koreanus	127.7756	35.81306	GBIF
O. koreanus	128.1609	34.94814	GBIF
O. koreanus	127.9961	35.86111	GBIF
O. koreanus	127.9117	35.99306	GBIF
O. koreanus	127.8489	35.80639	GBIF
O. koreanus	127.8317	35.94361	GBIF
O. koreanus	128.0443	35.39705	GBIF
O. koreanus	128.6056	35.99510	GBIF
O. koreanus	128.1324	34.98389	GBIF
O. koreanus	127.5308	35.24261	GBIF
O. koreanus	128.0294	35.86250	GBIF
O. koreanus	127.5157	35.30351	GBIF
O. koreanus	127.8969	35.93170	GBIF

O. koreanus	127.7703	35.93314	GBIF
O. koreanus	128.9581	36.15453	GBIF
O. koreanus	127.7635	35.74439	GBIF
O. koreanus	127.8286	35.88750	GBIF
O. koreanus	128.4932	36.02358	GBIF
O. koreanus	128.898	35.95947	GBIF
O. koreanus	128.0909	34.99855	GBIF
O. koreanus	127.7584	35.10180	GBIF
O. koreanus	128.1007	35.92836	GBIF
O. koreanus	128.0884	35.96665	GBIF
O. koreanus	127.6650	35.46087	GBIF
O. koreanus	127.6028	35.57542	GBIF
O. koreanus	127.6509	35.59841	GBIF
O. koreanus	127.8111	36.56819	GBIF
O. koreanus	127.6191	35.42774	GBIF
O. koreanus	128.1749	34.94221	GBIF
O. koreanus	128.2938	36.28462	GBIF
O. koreanus	127.7728	35.75806	GBIF
O. koreanus	127.7127	35.40894	GBIF
O. koreanus	127.9837	35.68857	GBIF
O. koreanus	128.5868	36.05144	GBIF
O. koreanus	127.9543	36.11079	GBIF
O. sillanus	129.2157	35.76374	GBIF
O. koreanus	128.0695	35.86671	GBIF
O. koreanus	127.6551	35.36087	GBIF
O. koreanus	129.1110	36.75517	GBIF
O. koreanus	128.0880	36.46973	GBIF
O. koreanus	127.9686	35.90306	GBIF
O. koreanus	127.8294	36.05406	GBIF
O. koreanus	128.7319	36.26687	GBIF
O. koreanus	127.4003	36.01717	GBIF
O. koreanus	127.8426	36.09133	GBIF
O. koreanus	128.0413	36.53550	GBIF
O. koreanus	127.7828	35.73745	GBIF
O. koreanus	127.7970	35.94117	GBIF
O. koreanus	128.1838	34.94914	GBIF
O. koreanus	128.4104	36.06876	GBIF
O. koreanus	127.6774	36.63334	GBIF
O. koreanus	128.3601	36.32738	GBIF
O. koreanus	127.7558	35.80083	GBIF
O. koreanus	128.0542	35.84861	GBIF
O. koreanus	128.1965	36.39630	GBIF
O. koreanus	128.2263	36.30955	GBIF
O. koreanus	127.8721	36.05469	GBIF
O. koreanus	127.8634	36.15036	GBIF
O. koreanus	127.5744	35.21344	GBIF
O. koreanus	127.9872	35.82667	GBIF
O. sillanus	129.2048	35.27318	GBIF
O. koreanus	129.2964	36.58040	GBIF

O. sillanus	129.0384	35.74641	GBIF
O. sillanus	128.9888	35.53733	GBIF
O. koreanus	128.1081	34.96922	GBIF
O. koreanus	128.1847	34.95979	GBIF
O. koreanus	127.7642	35.68552	GBIF
O. koreanus	128.0454	35.72487	GBIF
O. koreanus	127.5915	35.64245	GBIF
O. sillanus	129.2344	35.75493	GBIF
O. koreanus	127.8536	34.99068	GBIF
O. koreanus	127.7184	35.83137	GBIF
O. koreanus	129.1417	36.59614	GBIF
O. koreanus	129.1859	36.67891	GBIF
O. koreanus	127.6035	35.39927	GBIF
O. koreanus	128.2319	36.79495	GBIF
O. koreanus	127.4339	35.33893	GBIF
O. sillanus	129.0346	35.6454	GBIF
O. koreanus	128.6982	36.02516	GBIF
O. koreanus	127.6098	35.27423	GBIF
O. koreanus	127.5322	35.26354	GBIF
O. koreanus	127.6314	35.31073	GBIF
O. koreanus	128.7424	35.94336	GBIF
O. koreanus	127.6020	35.11116	GBIF
O. koreanus	127.5714	35.0924	GBIF
O. koreanus	127.5381	35.25061	GBIF
O. koreanus	127.6353	35.36951	GBIF
O. koreanus	128.9273	36.77715	GBIF
O. koreanus	127.8096	35.20481	GBIF
O. koreanus	127.4170	35.98330	GBIF
O. koreanus	128.4475	36.05365	GBIF
O. koreanus	128.0568	36.09602	GBIF
O. koreanus	128.9774	36.54903	GBIF
O. koreanus	127.7700	36.51196	GBIF
O. koreanus	127.4856	35.26807	GBIF
O. koreanus	127.9677	35.76053	GBIF
O. koreanus	127.8488	36.02569	GBIF
O. koreanus	128.0395	36.52562	GBIF
O. koreanus	127.6448	35.49604	GBIF
O. koreanus	128.9038	36.78510	GBIF
O. koreanus	127.9068	36.06033	GBIF
O. koreanus	127.6464	35.76592	GBIF
O. koreanus	128.6055	36.17765	GBIF
O. koreanus	127.8888	34.98648	GBIF
O. koreanus	127.8211	35.39093	GBIF
O. koreanus	127.6778	35.94875	GBIF
O. koreanus	128.0614	35.67631	GBIF
O. koreanus	127.6035	36.56168	GBIF
O. koreanus	127.7494	35.30361	GBIF
O. koreanus	127.6616	36.35645	GBIF
O. koreanus	127.5077	36.59217	GBIF

O. koreanus	127.493	35.74464	GBIF
O. koreanus	127.4787	35.73571	GBIF
O. koreanus	127.4057	36.21547	GBIF
O. koreanus	127.4318	35.67180	GBIF
O. koreanus	127.8889	36.01412	GBIF
O. koreanus	127.8788	35.08375	GBIF
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. sillanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS

O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. sillanus	XXX.XXXX	XXX.XXXX	KNPS

O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. sillanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. sillanus	XXX.XXXX	XXX.XXXX	KNPS
O. sillanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS

O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS

O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. sillanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. sillanus	XXX.XXXX	XXX.XXXX	KNPS
O. sillanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. sillanus	XXX.XXXX	XXX.XXXX	KNPS
O. sillanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS

O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS
O. koreanus	XXX.XXXX	XXX.XXXX	KNPS

Table S2. Geographic coordinates and GenBank accession numbers of two *Onychodactylus* species samples collected in the study area.

Pop No.	Administrative Region	Latitude (N°)	Longitude (E°)	N	GenBank Accession No.
1	Jukpa-ri, Subi-myeon, Yeongyang-gun, North Gyeongsang Province	36.72446	129.2553	10	PV419912–PV419921
2	Woloe-ri, Cheongsong-eup, Cheongsong-gun, North Gyeongsang Province	36.43722	129.1508	10	PV419922–PV419930, PX754452
3	Jusanji-ri, Juwangsan-myeon, Cheongsong-gun, North Gyeongsang Province	36.36246	129.1975	9	PV419931–PV419937, PX754453–PX754454
4	Geumhwa-ri, Gasan-myeon, Chilgok-gun, North Gyeongsang Province	36.07633	128.5548	10	PX754455–PX754464
5	Chisan-ri, Sinnyeong-myeon, Yeongcheon-si, North Gyeongsang Province	36.02996	128.7128	7	PV419947–PV419953
6	Ipseok-ri, Hwabuk-myeon, Yeongcheon-si, North Gyeongsang Province	36.14876	128.9632	10	PX754465–PX754474
7	Gamgok-ri, Jukjang-myeon, Pohang-si, North Gyeongsang Province	36.15496	129.1408	1	PX754475
8	Oksan-ri, Angang-eup, Gyeongju-si, North Gyeongsang Province	36.05015	129.1639	10	PV419938–PV419946, PX754476
9	Duryu-ri, Angang-eup, Gyeongju-si, North Gyeongsang Province	35.93047	129.1775	2	PX754477–PX754478
10	Namgok-ri, Euncheok-myeon, Sangju-si, North Gyeongsang Province	36.52557	128.0396	2	PX754479–PX754480
11	Haein-ri, Buhang-myeon, Gimcheon-si, North Gyeongsang Province	36.01691	127.8847	2	PX754481–PX754482
12	Jukjeon-ri, Gayamyeon, Hapcheon-gun, South Gyeongsang Province	35.77161	128.0707	9	PV419954–PV419962
13	Hwangsan-ri, Gayamyeon, Hapcheon-gun, South Gyeongsang Province	35.77015	128.1117	10	PX754483–PX754492
14	Byeokgye-ri, Gungnyu-myeon, Uiryeong-gun, South Gyeongsang Province	35.39944	128.1989	2	PX754493–PX754494
15	Jwasa-ri, Sandong-myeon, Gurye-gun, South Jeolla Province	35.30248	127.5148	8	PX422782–PX422786, PX754495–PX754497
16	Joryeong-ri, Bonggang-myeon, Gwangyang-si, South Jeolla Province	35.09487	127.5377	2	PX754498–PX754499
17	Yang-ri, Yuga-eup, Dalseong-gun, Daegu Metropolitan City	35.71379	128.5064	5	PV419970–PV419974
18	Bansong-ri, Okpo-eup, Dalseong-gun, Daegu Metropolitan City	35.74394	128.5223	2	PX754500–PX754501
19	Gyochon-ri, Hwayang-eup, Cheongdo-gun, North Gyeongsan Province	35.62247	128.7116	8	PV419975–PV419982
20	Bangnae-ri, Geoncheon-eup, Gyeongju-si, North Gyeongsang Province	35.79923	129.1058	10	PX754502–PX754511
21	Sinwon-ri, Unmun-myeon, Cheongdo-gun, North Gyeongsang Province	35.63664	129.0371	10	PV419983–PV419991
22	Dae-ri, Wondong-myeon, Yangsan-si, South Gyeongsang Province	35.44758	128.9698	8	PX754512–PX754519
23	Yongyeon-ri, Habuk-myeon, Yangsan-si, South Gyeongsang Province	35.42117	129.1031	2	PX754520–PX754521
24	Mora-dong, Sasang-gu, Busan Metropolitan City	35.18360	129.0117	4	PV419992–PV419995
25	Nae-ri, Gijang-eup, Gijang-gun, Busan Metropolitan City	35.18840	129.1637	2	PX754522–PX754523

Table S3. Percent contribution and permutation importance of eight environmental variables in the final species distribution model (SDM) of *Onychodactylus koreanus* selected from 20 models based on area under the curve (AUC) and true skill statistic (TSS) indices. TPI, topographic position index; TRI, topographic roughness index; NDVI, normalized difference vegetation index; AMT, annual mean temperature, °C; AP, annual precipitation, mm.

Variables	Percentage contribution (%)	Permutation importance (%)
Elevation	33.08	40.35
Slope	17.83	9.63
TPI	15.36	19.00
AMT	10.70	11.90
TRI	9.02	13.03
NDVI	6.96	4.08
Aspect	6.92	2.01
AP	0.14	0.00

Table S4. Percent contribution and permutation importance of eight environmental variables in the final species distribution model (SDM) of *Onychodactylus sillanus* selected from 20 models based on area under the curve (AUC) and true skill statistic (TSS) indices. TPI, topographic position index; TRI, topographic roughness index; NDVI, normalized difference vegetation index; AMT, annual mean temperature, °C; AP, annual precipitation, mm.

Variables	Percentage contribution (%)	Permutation importance (%)
Elevation	52.31	58.88
TPI	19.48	12.71
Slope	15.42	14.55
AP	5.17	1.72
TRI	3.43	6.81
AMT	2.63	2.68
Aspect	0.84	1.02
NDVI	0.72	1.63