

**Barred, blotched or intermediate? A photographic-based survey on the spatial distribution of
Vipera aspis phenotypes from central-southern Italy**

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SUPPLEMENTARY MATERIAL

Table S1: *Vipera aspis* individuals included in the study. Coordinates are approximated for conservation reasons.

Individual	Latitude (°N)	Longitude (°E)	Region	Province	Year	Phenotype
1	42.2	14.3	Abruzzo	Chieti	2017	<i>francisciredi</i>
2	41.7	13.9	Abruzzo	L'Aquila	2021	<i>francisciredi</i>
3	42.0	13.8	Abruzzo	L'Aquila	2017	<i>francisciredi</i>
4	40.8	17.0	Apulia	Bari	2018	<i>hugyi</i>
5	40.8	17.2	Apulia	Bari	2021	<i>hugyi</i>
6	41.0	16.3	Apulia	Bari	2019	<i>hugyi</i>
7	41.8	16.0	Apulia	Foggia	2023	<i>hugyi</i>
8	41.9	15.4	Apulia	Foggia	2019	intermediate
9	41.4	15.1	Apulia	Foggia	N/A	intermediate
10	41.6	15.0	Apulia	Foggia	2021	<i>francisciredi</i>
11	41.5	15.1	Apulia	Foggia	2023	intermediate
12	41.9	15.4	Apulia	Foggia	2018	<i>hugyi</i>
13	41.7	16.0	Apulia	Foggia	2022	<i>hugyi</i>
14	41.9	16.1	Apulia	Foggia	2022	<i>hugyi</i>
15	41.9	16.1	Apulia	Foggia	2019	<i>hugyi</i>
16	41.9	16.0	Apulia	Foggia	N/A	<i>hugyi</i>
17	40.2	18.4	Apulia	Lecce	2020	<i>hugyi</i>
18	40.0	18.0	Apulia	Lecce	2022	<i>hugyi</i>
19	40.7	17.2	Apulia	Taranto	2020	<i>hugyi</i>
20	40.6	16.8	Apulia	Taranto	2017	<i>hugyi</i>
21	40.6	17.2	Apulia	Taranto	2021	<i>hugyi</i>
22	40.6	16.7	Basilicata	Matera	2018	<i>hugyi</i>
23	40.4	16.7	Basilicata	Matera	2017	<i>hugyi</i>
24	40.6	16.6	Basilicata	Matera	2021	<i>hugyi</i>
25	40.2	16.7	Basilicata	Matera	2020	<i>hugyi</i>
26	40.6	16.7	Basilicata	Matera	2019	<i>hugyi</i>
27	40.6	16.7	Basilicata	Matera	2019	<i>hugyi</i>
28	40.6	16.7	Basilicata	Matera	2022	<i>hugyi</i>
29	40.2	16.7	Basilicata	Matera	2020	intermediate
30	40.6	16.2	Basilicata	Matera	2021	intermediate
31	40.7	16.6	Basilicata	Matera	2013	<i>hugyi</i>
32	40.2	16.7	Basilicata	Matera	2021	<i>hugyi</i>
33	40.2	16.7	Basilicata	Matera	2019	<i>hugyi</i>
34	40.2	16.7	Basilicata	Matera	2020	intermediate
35	40.2	16.7	Basilicata	Matera	2021	<i>hugyi</i>
36	40.2	16.7	Basilicata	Matera	2021	<i>hugyi</i>
37	40.2	16.7	Basilicata	Matera	2020	<i>hugyi</i>
38	40.5	16.4	Basilicata	Matera	2023	<i>hugyi</i>
39	40.5	15.6	Basilicata	Potenza	2020	<i>francisciredi</i>
40	40.5	15.6	Basilicata	Potenza	2021	<i>francisciredi</i>
41	40.1	16.0	Basilicata	Potenza	2021	<i>hugyi</i>

42	40.5	15.6	Basilicata	Potenza	2022	<i>francisciredi</i>
43	40.5	15.6	Basilicata	Potenza	2023	<i>francisciredi</i>
44	40.1	16.1	Basilicata	Potenza	2023	<i>hugyi</i>
45	40.6	15.8	Basilicata	Potenza	2023	<i>intermediate</i>
46	39.9	16.2	Basilicata	Potenza	2023	<i>hugyi</i>
47	40.0	16.3	Basilicata	Potenza	2020	<i>hugyi</i>
48	40.0	16.3	Basilicata	Potenza	2022	<i>hugyi</i>
49	39.9	16.2	Basilicata	Potenza	2021	<i>hugyi</i>
50	40.0	16.1	Basilicata	Potenza	2023	<i>hugyi</i>
51	40.0	16.2	Basilicata	Potenza	2019	<i>hugyi</i>
52	40.5	16.0	Basilicata	Potenza	2022	<i>hugyi</i>
53	40.3	15.8	Basilicata	Potenza	2017	<i>francisciredi</i>
54	40.0	16.1	Basilicata	Potenza	2022	<i>hugyi</i>
55	40.8	15.5	Basilicata	Potenza	2020	<i>intermediate</i>
56	40.0	16.1	Basilicata	Potenza	2019	<i>hugyi</i>
57	40.0	16.1	Basilicata	Potenza	2015	<i>hugyi</i>
58	39.9	16.2	Basilicata	Potenza	2016	<i>intermediate</i>
59	40.0	16.1	Basilicata	Potenza	2021	<i>hugyi</i>
60	40.8	15.5	Basilicata	Potenza	2022	<i>francisciredi</i>
61	40.6	15.8	Basilicata	Potenza	2022	<i>hugyi</i>
62	40.4	16.1	Basilicata	Potenza	2023	<i>hugyi</i>
63	40.4	16.0	Basilicata	Potenza	2021	<i>hugyi</i>
64	38.9	16.6	Calabria	Catanzaro	2022	<i>hugyi</i>
65	39.6	16.1	Calabria	Cosenza	2022	<i>hugyi</i>
66	40.0	16.6	Calabria	Cosenza	2020	<i>hugyi</i>
67	39.8	16.0	Calabria	Cosenza	2015	<i>hugyi</i>
68	39.5	16.8	Calabria	Cosenza	2020	<i>hugyi</i>
69	39.2	16.5	Calabria	Cosenza	2012	<i>hugyi</i>
70	39.1	16.2	Calabria	Cosenza	2020	<i>hugyi</i>
71	38.2	15.8	Calabria	Reggio Calabria	2016	<i>hugyi</i>
72	38.5	16.4	Calabria	Reggio Calabria	2023	<i>hugyi</i>
73	40.8	15.0	Campania	Avellino	N/A	<i>francisciredi</i>
74	41.0	15.1	Campania	Avellino	2023	<i>hugyi</i>
75	40.9	14.7	Campania	Avellino	2020	<i>francisciredi</i>
76	41.0	14.8	Campania	Avellino	2022	<i>hugyi</i>
77	41.4	14.4	Campania	Caserta	2023	<i>francisciredi</i>
78	41.4	14.2	Campania	Caserta	2023	<i>francisciredi</i>
79	41.4	14.4	Campania	Caserta	2022	<i>francisciredi</i>
80	41.4	14.4	Campania	Caserta	2022	<i>francisciredi</i>
81	41.4	14.4	Campania	Caserta	2021	<i>francisciredi</i>
82	41.4	13.9	Campania	Caserta	2017	<i>francisciredi</i>
83	41.4	14.4	Campania	Caserta	2022	<i>francisciredi</i>
84	41.2	14.0	Campania	Caserta	2022	<i>francisciredi</i>

85	41.4	14.1	Campania	Caserta	2023	<i>francisciredi</i>
86	40.8	14.4	Campania	Napoli	2022	<i>francisciredi</i>
87	40.5	15.6	Campania	Salerno	2023	<i>francisciredi</i>
88	40.4	15.1	Campania	Salerno	2023	<i>intermediate</i>
89	40.5	15.4	Campania	Salerno	2020	<i>francisciredi</i>
90	40.1	15.6	Campania	Salerno	2023	<i>francisciredi</i>
91	40.2	15.6	Campania	Salerno	2019	<i>francisciredi</i>
92	40.2	15.6	Campania	Salerno	2022	<i>francisciredi</i>
93	40.2	15.7	Campania	Salerno	2018	<i>francisciredi</i>
94	40.2	15.6	Campania	Salerno	2023	<i>francisciredi</i>
95	40.2	15.5	Campania	Salerno	2018	<i>francisciredi</i>
96	40.3	15.7	Campania	Salerno	2023	<i>francisciredi</i>
97	40.4	15.6	Campania	Salerno	2023	<i>francisciredi</i>
98	40.3	15.5	Campania	Salerno	2015	<i>francisciredi</i>
99	40.7	15.0	Campania	Salerno	2019	<i>intermediate</i>
100	40.6	15.3	Campania	Salerno	2020	<i>intermediate</i>
101	40.3	15.1	Campania	Salerno	2022	<i>francisciredi</i>
102	40.7	15.0	Campania	Salerno	2021	<i>francisciredi</i>
103	40.7	14.9	Campania	Salerno	2021	<i>francisciredi</i>
104	40.6	14.5	Campania	Salerno	2021	<i>hugyi</i>
105	40.3	15.0	Campania	Salerno	2009	<i>francisciredi</i>
106	40.7	14.7	Campania	Salerno	N/A	<i>francisciredi</i>
107	40.7	14.7	Campania	Salerno	N/A	<i>francisciredi</i>
108	41.6	13.2	Lazio	Frosinone	2023	<i>francisciredi</i>
109	41.6	13.2	Lazio	Frosinone	2023	<i>francisciredi</i>
110	41.7	13.7	Lazio	Frosinone	2003	<i>francisciredi</i>
111	41.8	13.7	Lazio	Frosinone	2020	<i>francisciredi</i>
112	41.8	13.6	Lazio	Frosinone	2023	<i>francisciredi</i>
113	41.7	13.9	Lazio	Frosinone	2023	<i>francisciredi</i>
114	41.8	13.6	Lazio	Frosinone	2021	<i>francisciredi</i>
115	41.6	13.9	Lazio	Frosinone	2020	<i>francisciredi</i>
116	41.5	13.5	Lazio	Frosinone	2022	<i>francisciredi</i>
117	41.5	13.6	Lazio	Frosinone	2018	<i>francisciredi</i>
118	41.7	13.6	Lazio	Frosinone	2017	<i>francisciredi</i>
119	41.7	13.9	Lazio	Frosinone	2022	<i>francisciredi</i>
120	41.7	13.9	Lazio	Frosinone	2022	<i>francisciredi</i>
121	41.7	13.9	Lazio	Frosinone	2022	<i>francisciredi</i>
122	41.7	13.9	Lazio	Frosinone	2021	<i>francisciredi</i>
123	41.7	13.9	Lazio	Frosinone	2020	<i>francisciredi</i>
124	41.7	13.9	Lazio	Frosinone	2020	<i>francisciredi</i>
125	41.7	13.6	Lazio	Frosinone	2021	<i>francisciredi</i>
126	41.3	13.8	Lazio	Latina	2023	<i>francisciredi</i>
127	41.3	13.8	Lazio	Latina	2022	<i>francisciredi</i>

128	41.4	13.2	Lazio	Latina	2022	<i>francisciredi</i>
129	41.3	13.9	Lazio	Latina	2017	<i>francisciredi</i>
130	41.3	13.5	Lazio	Latina	2021	<i>francisciredi</i>
131	41.3	13.8	Lazio	Latina	2021	<i>francisciredi</i>
132	41.3	13.0	Lazio	Latina	2019	<i>francisciredi</i>
133	41.4	13.0	Lazio	Latina	2021	<i>francisciredi</i>
134	41.3	13.7	Lazio	Latina	2021	<i>francisciredi</i>
135	41.8	14.9	Molise	Campobasso	2019	<i>francisciredi</i>
136	41.7	14.7	Molise	Campobasso	2007	<i>francisciredi</i>
137	41.6	14.9	Molise	Campobasso	2017	<i>francisciredi</i>
138	41.6	14.8	Molise	Campobasso	2019	<i>francisciredi</i>
139	42.0	15.0	Molise	Campobasso	2023	<i>francisciredi</i>
140	41.5	14.2	Molise	Isernia	2019	<i>francisciredi</i>
141	41.6	14.3	Molise	Isernia	2017	<i>francisciredi</i>
142	41.8	14.4	Molise	Isernia	2020	<i>francisciredi</i>
143	41.6	14.3	Molise	Isernia	2012	<i>francisciredi</i>