SPAIN

1975

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1975
S. D. Busack +
Jane S. Peters

PARTIAL COLLECTION TO
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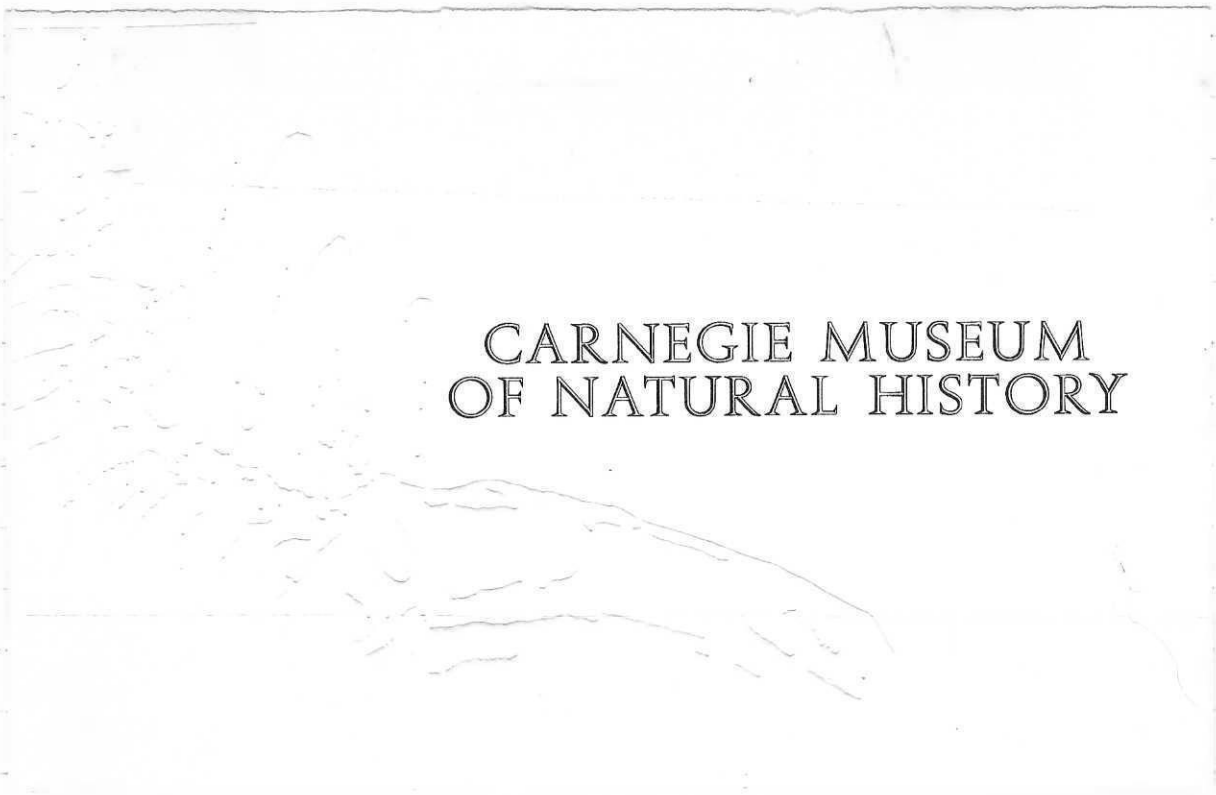

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the gift of
503 Amphibians and Reptiles from Northern Spain
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DATE

DIRECTOR

CRAIG C. BLACK

Arrived in Madrid 1 August at 9 am. No customs problems with the rifle or ammunition. Drove to Burgos, stayed overnight, drove to Santander. Weather warm with some rain.

SPAIN: PROV. SANTANDER; SANTILLANA DEL MAR.

2 AUG 1975 Arrived around 6 pm to be met by heavy rains and cool temperatures. About 10 pm, Jane and I went collecting and took 7 Bufo bufo (CMFS 23508-514) A.O.R. (except 508-9 which were D.O.R.). The heavy rain of about 30 minutes did not remain on the road very long as the highway was fairly dry.

4 AUG 1975 SPAIN: PROV. LEON; OSEJA DE SAJAMBRE (ON C637 S. OF CANGAS DE ONÍS)

Saw the caves at Altomira yesterday during (between) heavy rains. Since the window on the car had broken, we decided to wait and have it fixed in Santander this am. Then we proceeded straight to the Picos de Europa and are staying in a Pension. During the trip here, I caught 2 Lacerta (CMFS 23515-23516) which have weights associated with them. The Peaks of Europe are beautiful. Surveyed a stream on road to Soto de Sajambre (1 km S. of town) for 1 hr from 2200 to 2300 and saw nothing in stream or around stream bed. Could be altitude or temperature? Probably neither as the stream was flowing fairly rapidly and was cold but not freezing. This stream was also surveyed during the daylight hours with no luck.

5 AUG 1975

SPAIN: PROV. DE LEON; OSEJA DE SAJAMBRE, VIC. N ON 637.

Arose this am and went collecting with PETER HOPKINS at a location about 2 km N. of OSEJA DE SAJAMBRE. We started about 1030 HRS AT 22°C T_a in area of slate outcroppings we took a series of *L. muralis* (CMFS 23517 - 23531):

TIME	T_b	T_a	WHAT DOING	NR	WT	SEX
1044	36°C	—	sunning	23517	6	♂
1147	36.4	33	—	23518	3.3	♂
1156	35	—	—	23519	3.4	♂
1157	33.8	—	in shade	23520	2.5 (BT)	♂
1100	—	—	juv seen	23521	2.0 (BT)	♀
1103	33.8	—	in shade	23522	1.9	♀
1108	33.5	—	foraging in sun	23523	4.8	♂
1111	34.8	—	foraging in ~~sun~~ shade	23524	2.6	♀
1137	38.4	—	foraging in sun	23525	1.8 (BT)	♀
1139	35.0	—	foraging in sun	23526	2.1	♀
—	35.2	—	open sun	23527	5.0	♂
—	30.5	—	in shade	23528	3.6	♀
1146	33.5	—	in sun	23529	2.6 (BT)	♀
1150	38.5	—	open sun PHOTO	23530	4.6	♂
1200	33.8	—	in shade PHOTO	23531	3.6	♀

$N = 14$ $\bar{x} = 34.87°C$

$N_{♀} = 5$ $\bar{x}$ 2.76 g

$N_{♂} = 6$ $\bar{x} = 4.52$ g

Left Peter about 1300 and drove back to Cangas de Onís and over to COVADONGA. Then up to LAGO DE LA ERCINA arriving about 1500. From 1500 - 1700 we surveyed the W. side of the lake, We are now in OVIEDO Province. At any rate, the lake looks to be glacial, is surrounded by tall granitic formations, and is fairly warm. The surrounding pastures are freely used by cattle and people both and are kept fertile by both. Heavy

5 AUG 75

fog rolls in about 4 pm and looks to be here for the night. From the W. side of the lake we collected under rocks in what might be called morgia level -- between water and pasture there is some mud, some grassy wet level, and then boulders, etc. to the hills. An adult Pseudodromus hispanicus (23532, ♂, 3.2g) was collected on the rocks next to a Lacerta muralis (?) (23624, ♂, 5.8g PHOTO). From under rocks near the shore line a series of Triturus helveticus (23533 [20 larvae @ .1g], 23534-23550, 23601-23617 PHOTO [23617]) whose weights average 0.94g and which range .4, .6, .6, .7, .7, .8, .8, .8, .8, .8, .9, .9, .9, .9, .9, .9, .9, .9, .9, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.2, 1.2, 1.2, 1.3, 1.5, 1.6. (N=33, $\bar{x}$=.94). Triturus ~~boscai~~ alpestris (23618-23620, 618 PHOTO) were also collected at 1.8, 2.0, and 2.8g. (N=3, $\bar{x}$=2.2g). Alyter obstetricans (23621-23623, 621 PHOTO) were taken at 1.0, 2.5, 3.5g. (N=3, $\bar{x}$=1.17g)

LAGO DE LA ERCINA, EAST SIDE from 2000-2300 hr.

Shoreline much as West side except that granitic formation interferes with water line about ½ way around. Much more natural shore with small stones strewn about.

Bufo bufo (23625-23627 [625-PHOTO], 35.0, 25.0, 24.0g respectively) (N=3, $\bar{x}$=28g) found under one large rock. ALYTES OBSTETRICANS 4.6, 3.0, 4.3, 3.3, 4.1, 3.8, 4.1, 3.5, 2.9, 4.7, 3.0, 3.7, 4.2, 4.7, 4.5, 3.0, 4.7, 3.6, 5.0, 2.9, 3.7, 2.0, 1.0g and eggs collected (N=23, $\bar{x}$=3.66g). Rana iberica (23664, 0.7g) collected under a rock and a series of T. helveticus also found (23628-23639) at the following weights: 1.2, 1.2, 1.2, 1.3, 1.2, 1.0, 1.0, 1.3, 1.2, 1.2, 1.2, 1.2g (N=12, $\bar{x}$=1.18). T. boscai (23665-23670) at 3.1, 3.2, 4.4, 3.2, 3.2, and 2.2g (N=6 $\bar{x}$=3.22g). Eggs were found under a rock on upper shore (23671)

We note here that the East side of the lake appears to be more heavily populated and exhibit more Biomass.

6 AUG 1975

T_o = BLACK BODY OPEN SHADE

SPAIN: OVIEDO PROV; LAGO DE LA ERCINA. Beautiful B Morning!

10:15 am - 12 N, T_o = 21°C, T_a = 16°C, T_{H_2O} = 21°C.

Went around LAGO ENOL, followed stream to mining camp and found only one ALYTES OBSTETRICANS (23672, 0.6 g) in the area of the camp. On the S. side of Lago de la ERCINA is a swamp/marsh from which larvae of Rana iberica and Triturus helveticus (23711) were collected. T_a was 18° and T_{H_2O} was 23.5°C. Spent most of the afternoon putting up specimens but we ran around the East side of the lake again to get T_f of Alytes obstetricans. A heavy fog joined us at 1600 and stayed through the night.

1930 - 2020 T_a: 16.6°C - 16.2°C.

T_a WHERE COLLECTED	T_B	SPECIES
19°C	25°C	ALYTES OBSTETRICANS
20	22.2	"
20.4	23	"
21.5	22.5	"
18	21	"
18	20.8	TRITURUS BOSCAI
20	23.2	ALYTES OBSTETRICANS
19.6	22.6	"
19.6	22.6	"
21.0	23	"
21	22.6	BUFO BUFO
21	22.2	A. OBSTETRICANS
19.6	22.2	"
18.6	22.2	"
19.2	21.0	"

6 AUG 75 WEST SIDE

2025 - 2100, T_a = 16.2 - 16.0°c.

T_a	T_b	SPECIES
22.2	22.6	ALYTES OBSTETRICANS
22.5	23.5	"
22	24.8	"
20	21.8	"
20	21.4	"
20	22.0	"
20	22.5	"
22.5	24.2	"
19.5	20.4	"

While gathering these data, we also collected one Lacerta muralis (23673, 1.1g), 13 Alyter obstetricans (23676-23688) at the following weights: 3.1, 3.3, 4.1, 1.8, 4.6, 2.1, 4.4, 3.5, 3.0, 2.3, 2.4, 3.1, --. ($N = 12$, $\bar{x} = 3.14g$), one T. boscai (23675) at 3.6g, and one Bufo bufo (23674, 33.0g) from the East side.

From the west, we obtained: (23689 - 23698) Alyter obstetricans at 2.9, 2.2, 4.9, 3.4, 1.5, 3.7, 3.4, 2.9, 3.0, 1.6 ($N = 10$, $\bar{x} = 2.95$) and one T. helveticum (23699, 1.6g).

Later that evening, from N. of the lake from 2230 - 2300 a series of RANA iberica were taken (23700 - 23710, 710 PHOTO). 30, 33, 28, 41, 56, 36, 42, 64, 42, 37, 19 g ($N = 11$, $\bar{x} = 38.9$)

7 AUG 1975 SPAIN: OVIEDO; LAGO DE LA ERCINA

Left campsite this morning around 1100 under extremely cloudy, foggy skies. Drove to Congos de Onis and on to SALAS. Arrived at Salas at 1600 under warm but cloudy conditions.

7 AUG 1975 CONT'D:

SPAIN: OVIEDO PROV; 6 km W. OF SALAS [= 3 km E. LA PEÑA] ON N634.

Between km 263 and 264 there are 2 bridges on creeks flowing down the NE slope of a ridge. The first bridge (6 km W. of SALAS) has a full CANOPY of cover, the second (= ½ km W. of 1ST) is partially canopied. We surveyed 100 M. upstream from the bridge between 1617 and 1718 HRS (T_{H_2O} = 16.6°C, T_A = 18.6°C) and found 8 CHIOGLOSSA LUSITANICA. (23$\frac{7}{8}$12 - 23$\frac{7}{8}$20) weighing .2, .4, 1.4, .4, .6, .6, .6, and 1.7 g (N=8, $\bar{x}$ = .74g). and an egg mass (23$\frac{7}{8}$21, PHOTO) weighing .5 g.

1728-1828 HRS. ½ km up the road to the W. in another stream covered by a massive stone bridge. Working 100 M upstream from the unused bridge behind the HIGHWAY Bridge, in an area less canopied and more overgrown (ie: this is in part of a cultivated field), I found 2 more specimens. 23$\frac{7}{8}$22 - 23$\frac{7}{8}$23 [PHOTO] weighing .3 and 2.7 g respectively. Perhaps the amount of cover determines the #s of Chioglossa? This second stream is not or completely canopied.

Later we drove to LA ESPIÑA, S. to PEDREGAL, LA FLORIDA, BARCA, along PANTANO DE LA BARCA, TO SOTO DE LOS INFANTES, GODAN, and back to Salas. From La Espiña to the Pantano coal mining has blackened the earth in many places. The Pantano is not being used except for power and has undoubtedly ruined a valley. There appear to be no suitable habitat for Chioglossa except the area between Salas and La Espiña.

8AUG1975

SPAIN: OVIEDO PROV; 6.5 KM W. SALAS ON N-634.

Spent last evening encamped up the road from the bridge. Stream temperature 14°C at 2ND locality from yesterday. Searched some from 1310-1410, T_a = 18.5, Raining. No luck as there appear to be few areas for Chioglossa to hide.

KM 279 on N-634 1 km S. of CASTAÑEDO (= 9 KM S. PONTIGÓN).

T_A = 22°, T_{H_2O} = 15.5°, T_{AIR} = 21°, 1500-1600 HRS.

10 C. LUSITANICA collected (23724-23733) at weights of .5, .4, .6, 1.0, .5, .9, .5, .5, 2.0, .5 (N=10, $\bar{x}$ = .74)

CANOPIED STREAM, RAPIDLY FLOWING, ROCKY SHORES AND BOTTOM. SPECIMENS FOUND UP TO 1½ - 2 M from side of water (water's edge) and they appear to prefer wet, ROCKY soil under loosely settled rocks. Jonie and I spent 1 hour on 100 M. of stream working upstream from the bridge at KM 279. Jonie worked the parallel stream which was stagnant - slow moving, covered with debris of trees, and found only one medium sized specimen which escaped. Apparently, Chioglossa prefer swiftly moving streams, in which pockets of I have found larval specimens and egg mass (sheltered from current but available to the freshening effect of the water droplets - spray), to slow streams. Perhaps, the freshening effect of the water as it moves along aerates the soil, which has been loose sand-loam to date, and cools the animal. 23734, a Ranid, also taken here.

Drove along N-634 to REINANTE (LUGO PROV) where we are camped for the night. We saw no other suitable CHIOGLOSSA streams along the route. RAIN all day. Blah. Cold and windy along the road today, hope tomorrow is better.

9 AUG 1975 SPAIN: LUGO PROV; REINANTE

Left and drove S. on N-634 thru MONDOÑEDO, PROBECENDE, VILLALBA, E. TO TUMBO, ESPIÑEIRA, FERIA DEL MONTE looking for lake indicated on map and NO HAY!

1400-1500, T_A = 22°C, T_A = 21.5°C RESPECTIVELY.

TUMBO (LUGO), 3 km W. AT RÍO TAMOGA BRIDGE in area of some ponds close to river. Bank of road lined w/ shale and soil dump under the soil. Collected 1 Rana ridibunda (23735, 22g), 7 Bufo calamita (23736-23742) weighing 5.4, 8.5, 7.5, 6.2, 5.8, 6.0, and 6.7 (23742, PHOTO) grams, 1 Bufo bufo (23743, 17g), 2 Rana iberica (23744, 23745) at 14 and 13g., and 1 TRITURUS helveticus (23746, 1.6g). A T. MARMORATUS ♂ was seen in the area but not collected. Numerous R. ridibunda were also observed. Drove back to VILLABA then S. to BAAMONDE, ~~and Gu~~ W. to GUITIRIZ about 3 km, turned S. to national forest of some sort, wondered around but too dry and no cover, came into PUEBLA DE PARGA, drove N. on N-V, thru GUITIRIZ, turned S. on C-544 and drove into Santiago de Compostela.

All today was spent searching for CHIOGLOSSA localities and all streams were either un-covered or too slow, or with not enough cover. Much of this route is farm land, secondary forest of Pine (Pinus pinea?), or burned over. Agriculture is taking its toll here as not even the stone walls and bridges produce much. ULEX appears to be primary understock in many areas.

10 AUG 1975 SPAIN: LA CORUÑA: SANTIAGO DE COMPOSTELA.

Left traveling E. on C-544 to C-547 and followed 547 to ARZUA, MELLID all of which is rhyporal. Stopped 3 km W. of LUGO Prov Border (on C547) near km 557 from 1400-1500.

10 AUG

Collected one *LACERTA* (23747, 3.3 g) in PROV. LA CORUÑA near LEBOREIRO on a stone wall just off C-547.

Entered PROV. LUGO and drove S. thru SAMBREIJO, MONTERROSO, TO TABOADA, TO PANTANO DE BELESAR, S. on N-540 TO CHANTADA, TURNED E. ON C-533 STOPPED AT PANTANO DE BELESAR (GRAPE COUNTRY), FOUND NOTHING, THRU MONFORTE DE LEMOS, QUIROGA (DEFORESTED + BURNED), TO LA RÚA, TURNED NE ON N-120, STOPPED FOR NIGHT NEAR SALAS DE LA RIBIERA AT EMBALSE DE PUMARES OR RÍO SIL.

Most of this route in Og. country. Embalses and PANTANOS are artificial flooding and not good for herps except *R. iridiventris* which seem to prefer stagnant H2O in an Embalse.

COLLECTED 1520-1620 AT PROV. LUGO, S. SIDE OF VILELA (ON N-540). $T_A = 26°$, $T_{H_2O} = 32°C$. Got 1 *LACERTA* _____ (23748, 5.8 g) a series (23752 [11]) of juv. *Rana iridiventris* at .7, .6, 1.1, 1.2, .7, .4, 2.3, .4, .6, .6, .5, .6, 1.1, and 32 grams. The longer specimens are tagged 23749-23751.

2 km W. of LA RÚA (PROV. ORENSE), between km 2 and 1 on C-533, a DOR *MALPOLON MONSPESSULANUS* (23753) was picked up and saved.

~~ORENSE~~ LEON prov, between km 30 + 31 on N-120, near SALAS DE LA RIBIERA at EMBALSE DE PUMARES on RÍO SIL 3 *Rana iridiventris* (26.6, 16.0, 5.0 g) 23754-23756 were collected ca. 2230 hrs.

11 AUG

LEON ~~ORENSE~~ PROV, SALAS DE LA RIBIERA

Departed on N-120 driving NE. Stopped 1030-1230 at LAGO (natural but un-named) in LEON PROV. from 1100-1230.

CAR 60967

1 km. E. CARUCEDO (CARCEDERO) on N-120 captured 1 *LACERTA LEPIDA* (23757, 74 g) with help from locals who were moving a rock pile. Also in a rock pile, 1 *NATRIX MAURA* (23758, 85 g) was captured at 1215 HRS.

Drove on from here to PONFERRADA where we had lunch and then to N-VI through BEMBIBRE TO ASTORGA where we took N-120 TO LEON where we stopped for the night. All along this route

11 AUG — we stopped at various streams but could not find any CHIOGLOSSA and did find much of the area was burned over and flat countryside, exposed streams, and chapparal.

12 AUG 1975 — SPAIN: LEÓN PROV; LEÓN

Departed León on N-630 to LA ROBLA, E on C-626 to CANDANEDO DE FENAR. From 1300-1330 we collected in vic of 1 km. W. (KM marker 18-19 on C-626) in a very polluted, semi-damp, stream bed where 2 LACERTA MURALIS (3.2 & 4.0g) were taken (23759-23760) at a T_A = 24°C. Moved 1 km W of ROBLES DE LA VALCUEVA near a stream with no name (1 km W. of intersection with LE-311 of C-626). From 1335-1405, T_A = 24°C, we collected 4 Lacerta muralis (2.6, 7.4♂, 6.1♂, 6.4♂) from around the border and bridge over the River (23761-23764) Turned N on LE-311 to VEGACERVERA where from 1500-1520, T_A = 27.5°C, on the RIÓ TORIO, we collected 1 LACERTA MURALIS (♂, 6.8g, 23765). Continued N. to FELMIN where we turned W. to VALPORQUERODE and the CUEVA DE VALPORQUERODE where from 1900-2030, T_A = 20°, T_{H_2O} = ± 13°C, we collected 9 Tadpoles of RANA _____ (23766) NW of the outside entrance to the cave in a stream pond. Taken from rocks at head of stream in ICE cold water.

13 AUG 1975 — SPAIN: LEÓN PROV; VALPORQUERODE (near VEGACERVERA)

From 1030-1215 I searched the rocks in the area for Vipera, etc. and found only 1 LACERTA MURALIS (23767, 2.5g) although 6 other individuals were seen. 1 mole (jet black) and a vole were also seen. It was an overcast day and the area is heavily grazed by sheep and goats. We returned to FELMIN, turned N to LE-311 and stopped from 1230-1400 at the RIÓ VALVERDIN which crosses LE-311 and where RÍO TORIO intersects with it. also here is the intersection of LE-311 with

13 AUG 1975 the road to VALDETEJA. We were (by road) 42 km N. of LEON, 2 km S. of CARMENES, 13 km W of VALDETEJA. Here we collected Bufo bufo (23768, 77g), LACERTA MURALIS (23769 - 23779) and weighed 3.6, 4.2, 5.7, 3.6, 4.6, 4.3, 6.1, 3.6, 2.9, 3.4, 5.0. An Anguis fragilis (23780, 18.0g, PHOTO) was taken under a rock along the road. It appears that the Eucalyptus shade and the stream form a nice habitat pocket here for these 3 spp.

Drove N on LE-311 through CÁRMENES to CAMPO where we turned around. 3 km N. CÁRMENES (= .5 km S. OF CAMPO) we collected an ANGUIS FRAGILIS (23781, 27.0g) and a L. muralis (23782, 7.0g), both under rocks in a cultivated field. This area was also near the RIO TORIO. We also saw many Bufo bufo (?) tadpoles in the River. 2.5 km S. of CAMPO at 1524 a D.O.R. Bufo bufo was seen on LE-311. We went back down to road to VALDETEJA and turned East. At 1533 one D.O.R. Bufo bufo was seen on LE-313 at .5 km W. PEDROSA. Proceeded to ⊥ with road to LA VECILLA and turned S. In LA Vecilla, picked up C-626 East to BOÑAR where we turned N. on LE-331. From 1700 - 1730 we stopped at the RIÓ PORMA, 1 km. S. of VALDECASTILLO, where the flow of the stream is acceptible, the shores look good with cover available, but there is trash in the water by the bridge, the shores and H_2O have rust coloring from some sort of waste procedure. This area may have been Chioglossa habitat in the past. Proceeded N. past Pontoro PORMA (barren shores, no habitat) through Puebla de Lillo. Took left branch of road to ISOBA where we camped for the night under cloudy skies and pouring rain. It's down cold here and the sanitary facilities empty directly into the stream.

Possible Chioglossa habitat

14 AUG 75 SPAIN: LEON PROV; N. OF ISOBA

0900-0930, collected a tadpole series (23783) from .5 km N. of Isoba from the RIÓ DE ISOBA, T_{H_2O} = 11.4, T_A = 11°C.

1100-1300, LAGO DE ISOBA, .5 km S. OF ISOBA and there is no second lake contrary to what map indicates. Walked around the lake in pouring rain and turned over many rocks of granite which shelter amphibians. The lake itself is filled with Rana ridibunda and R. iberica, the imagos of which are prevalent at this time. We collected: 19 HYLA ARBOREA (23784, ca. 0.3g), 22 RANA RIDIBUNDA (23785-23806 at the following weights: 2.0, 2.3, 3.4, 1.9, 2.8, 2.7, 1.8, 3.4, 1.5, 1.8, 1.6, 1.5, 1.4, 3.3, 2.0, 1.3, 1.5, 1.5, and 1.2 g [N=19, $\bar{x}$ = 2.04]) ♂♂ adults at 17, 20, and 14.5 g ($\bar{x}$ = 17g), and 20 ALYTES OBSTETRICANS (23807-23826, at the following weights: 1.2, 1.4, 1.0, .8, 1.0, .6, .8, 1.0, 1.0, 1.0, 1.2, 1.0, 1.2, 1.2, 1.0, 1.2, 0.8, 1.4, and .6 g [N=19 $\bar{x}$ = 1.02] and an adult at 6.4g), RANA IBERICA (23827(5)-23829 at: .4, .4, .4, .4, .4, 21.0, 10.0g) and Bufo BUFO (23833 at 26.0g), LACERTA MURALIS (23830-23832, at 4.8, 4.0, and 6.6g [N=3, $\bar{x}$ = 5.13]), TRITURUS BOSCAI (23834-23845, at 2.7, 2.4, 1.8, 1.6, 3.5, 2.4, 2.0, 2.2, 2.1, 2.5, 2.9, and 21g [N=12, $\bar{x}$ = 2.35]), TRITURUS HELVETICUS (23846-23850[9], at 1.4, 1.2, and 1.4g [N=3, $\bar{x}$ = 1.33] and .4, .3, .3, .4, .4, .4, .3, .2, .2, .2g), and PSAMMODROMUS ALGIRUS (23851-23852, 23852 = ZOOTOCA VIVIPARA at .2 and .4 [$\bar{x}$ = .3]) from this area which is 1 km N. of a TALC Mine.

TALC Mining

8/8/2016

Took LE-331 South through PUEBLA DE LILLO and

⟹ turned N. through COFIÑAL to RIÓ PORMA at 6 km S. of C-635 between KM 29+30 (1625M alt) at 6 km S., PUERTO DE TARNA (LEÓN PROV.) where I surveyed from 1700-1730. T_{H_2O} = 12°C, $\bar{T}_A$ = 13.4°C, River flow is substantial and fast enough but I believe the H_2O is too deep at present. No rock on the limited bank of RIÓ, fast stream had mossy rock but little water; ~~none where~~ Chioglossa may live here, none were found but its possible they have "dug in" for the summer.

14 AUG 75

Turned S. on C-635 and drove to .5 km N. LA UÑA (1800) where a D.O.R. Bufo bufo was seen. At 1815 hrs another D.O.R. Bufo bufo 2 km N. of LARIO. Proceeded S. to RIAÑO where we got gasoline, turned N. on C-635; at ⊥ of C-637 turned on to C-637 and drove N. to OSEJA DE SAJAMBRE where at about 1930 hrs we met with PETER W. HOPKINS for the second time. NOTE: It has been raining since 1800 @ LA UÑA and is following us around. We left Peter ca. 2200 HRS and drove S. still on C-637.

N43.13791 W5.03781

2155, pouring rain, 7 km S. of OSEJA, 2 Bufo bufo (23913-23930) collected A.O.R. 9 km S. of OSEJA, T_A = 16°, found 3 B. bufo (A.O.R.) + 1 D.O.R. B. bufo. 11 km S. of OSEJA, 2210, 2 B. bufo at RIÓ SELA crossing (FUENTE DEL INFIERNO). 12 km S. OSEJA, 2214, 1 live N43.10230 W5.02162 SALAMANDRA SALAMANDRA and 2 D.O.R. (23853-23911). 13 km S. OF OSEJA, 1 TRITURUS HELVETICUS (23912) @ 2.0 g., 4 BUFO BUFO (23913-930), AND 1 S. salomandra N43.09950 W5.01389 (23853-23911) 1273.8 m. TURNED N. ON road to PTO. PANDERRUEDA; 5 km from (S.) the point we found 4 Bufo bufo and 5 Salamandra salamandra. At 4 km from (S.) the point I started taking T_B and T_A (T_{ROAD} started at 3 km. S. of the point). At 4 km from the point I got ~~25~~ SALAMANDRA SALAMANDRA and stopped collecting BUFO bufo which were also very common on the road (more so than Salomandra). At 3 km S. of PTO PANDERRUEDA we collected 13 S. salamandra and it was 2317 hrs (+- a few minutes for stopping, it was a long km with temperatures, etc - See next page). 2 km from PTO it had stopped raining, ± 2317 and the road started drying out, we collected 10 Salamandra salamandra. It started raining 2327 HRS and continued with heavy fog past

N43.10265 W5.03033

N43.12000 W4.98050 1450 m

N43.05647 → W5.01256

14 AUG 75 | midnight. 1 km S. of the PTO, I stopped taking T_S and found 8 *Salamandra salamandra*. We stopped and camped at the MIRADOR DE PIEDRASHITAS (9.6 km from POSADA DE VALDEÓN). N43, 124999 W4.981619

SALAMANDRA SALAMANDRA TEMPERATURE DATA (°C)

T_{ROAD}	T_A (1 cm ↑ RD)	T_B	TIME
—	12.6	16.0	2220 HRS
—	"	14.0	
—	"	14.0	
—	"	14.5	
—	"	14.0	
—	"	14.6	
—	"	15.5	
—	13.6	14.6	
—	12.4	14.6	
—	12.6	15.5	
—	12.4	14.0	
—	13.0	14.5	
—	13.0	15.0	
—	12.8	13.8	
—	12.5	14.0	
—	13.6	14.4	
—	12.5	14.4	
—	12.8	13.3	
—	"	14.0	
—	12.5	13.5	
—	"	14.4	
—	"	13.8	
13.0	12.6	14.5	
15.0	12.6	14.8	

14 AUG 75

	T_{ROAD}	T_A	T_B	TIME
	15.2	12.5	14.9	
	15.0	13.0	14.6	
	15.0	12.6	15.0	2317 HRS
	15.0	12.0	14.6	

Stopped raining / road starting to dry out

	13.6	11.0	15.0	
	14.2	11.5	14.6	

Started raining again

	12.6	10.2	14.4	2327 HRS
	12.4	11.0	13.6	
	13.0	11.0	14.0	
	14.0	11.5	13.4	
$N =$	12	34	34	
$\bar{x} =$	14.0°C	12.4°C	14.4°C	

~~15 AUG 1975 — SPAIN: LEÓN PROV; MIRADOR DE PIEDRASMITAS~~

BODY WEIGHTS

SALAMANDRA SALAMANDRA

15, 23, 26, 20, 15, 11, 13, 14, 13, 7, 19, 13, 17, 19, 10, 9, 11,
13, 10, 11, 9, 10, 14, 14, 10, 9, 11, 11, 10, 8, 10, 12, 15,
10.5, 8, 9.5, 9, 16.5, 12, 7, 13, 7, 11, 16, 16, 10, 6, 10, 9,
12, 11, 11, 9, 10, 4, 7, 8, 5.5, 4 g ($N = ~~63~~ 59$, $\bar{x} = 12.29$ g)

BUFO BUFO

125, 115, 120, 57, 50, 42, 44, 41, 55, 30, 37, 33, 24, 27,
27, 5.8, 4.4, 3.0 ($N = 18$, $\bar{x} = 46.7$)

TRITURUS HELVETICUS

2.0 g.

15 AUG 1975 SPAIN: LEÓN PROV; MIRADOR DE PIEDRASHITAS.

Preserved last night's catch, in part, and left about 1300. Drove back to C-637, headed N., and stopped at RIÓ SELLA crossing FUENTE DEL INFIERNO. ⇒ Checked both forks of Río Sella 1330-1530, $T_A = 14°$, $T_{H_2O} = 13°C$. WATER flow O.K., little siltation, water level possibly too low although banks indicate a normal level of flow. The streams are canopied but no Chioglossa were found after a 100 M survey on each of the 2 forks about 200 M upstream from the bridge on C-637.

At FUENTE DEL INFIERNO, I collected 2 Lacerta muralis (23940-41; 4.4 and 6.4 g) and a BUFO BUFO (23942, 58 g)

Returned to Oseja de Sajombre and followed the path to CAPITA SAN ROQUE from 1600-1800. Along this patch, we collected 7 LACERTA MURALIS (23931-937, 5.4, 1.5, 3.8, 3.9, 4.6, 2.2, and 4.4 g [N=7, $\bar{x}$=3.68], 1 ANGUIS FRAGILIS (23938, 12.5 g.) and a CORONELLA AUSTRAICA (23939, 43.5 g. PHOTO)

Took C-637 N to CANGIS DE ONIS, turned E. on C-6312 and drove to LA ESTRADA (OVIEDO PROV) where from 2000-2030 I surveyed a stream with little shore ⇒ cover, much siltation and some blue-green algae evident (polluted). The stream had a sandy bottom and I think Chioglossa prefer stone or SANDY-loam of a coarse type. There were newly hatched ALYTES in this stream.

After AVIN we turned N. on road to MERE and BARRO. Followed road to N-634 where we turned E. Arrived in LLANES where we camped.

16 AUG 75 SPAIN: OVIEDO PROV; LLANES, EL BRAO campground

16 AUG 1975

Spent the day preserving and catching up on notes. 1530-1600, on the walls in and near campground with aid of a bunch of kids from Bristol, England, collected 3 Lacerta muralis (23943-45; 2.2, 2.2, 6.0g).

17 AUG 1975

SPAIN: OVIEDO; LLANES, EL BRAO CAMPGROUND.

Left LLANES at 1000 HRS, ON N-634, turned S. to O-211. From 1115-1135, stopped at RIÓ LAS CABRAS (.25 km N. LA HUERA DE MERE), to look for CHIOGLOSSA. $T_A = 18.6$, $H_{H_2O} = 15.6°C$, water flow all right, stream not canopied, not many rock on shoreline. Saw nothing.

From 1142-1200, on RIÓ LAS CABRAS, 1 km N. MERE. $T_{H_2O} = 15.4$, $T_A = 18.8°C$. Water flow O.K., partial canopy, soil under bank rocks dry, sandy loam; spiders, ants, and centipedes present.

Continued S. until met C-6312, turned E. to LAS AREÑAS DE CABRALES where we met with Peter W. Hopkins once again. He told us of his Vipera berus from Soto de Sajombre and the Anguis fragilis from LAS AREÑAS. For lunch we visited the road S. to Pontono and CAMARMEÑA and SOTRES and returned after seeing nothing but scenic beauty. Returned to LAS AREÑAS. From 1920-2020, we collected in the foothills to the W. of town which is largely terraced pasture and some chapparel. Looked under hundreds of rocks and found one CHALCIDES CHALCIDES (23946, 12.5g). Mostly a day of rest with a touch of diarrhea. Spent evening talking to Peter Hopkins who still sounds bitter about Valverde and Castro-viego at the station in Sevilla.

18 AUG 1975 SPAIN: OVIEDO; LAS AREÑAS DE CABRALES

1000-1200, collecting at Rió CARES and at a stream feeding el Rió (5 km. E. of LAS AREÑAS at a fishing area with cement steps). 2 LACERTA MURALIS (23947-23948; 3.7, 3.4g) from stones along path running // to stream. Checked stream for Chioglossa:

T_{H_2O} = 15°C, T_A = 18°C. Canopied stream w/ rapid flow, moss covered rocks, small stone bottom, no Chioglossa but habitat look O.k.

1426 left LAS AREÑAS, proceeded E. on C-6312 to PANES where we turned S. on N-612. At 1538, we found a DOR NATRIX NATRIX (23950) on N-612 between KMS 420 and 421 in PROV. SANTANDER, 10 km N. of OVIEDO.

Turned W. ON N-621, AT POTES to FUENTE DE where road ended and we turned around (at PARADOR). On the way back between 1700-1720, I survey, (on N-621) between Km 18 & 19, 3 km W. COSGAYA, the RIÓ DEVA: T_{H_2O} = 15°, T_A = 17°. Rapid flow, silted bottom, detergent pollution.

We returned to POTES and turned SE on C-627. At 5 km N. of AREÑOS, (PALENCIA PROV). (1900) a Baby Bufo bufo found in a pond = alpine meadow at 1900 M. (also 1900 Hrs).

Continuing on our way to Palencia, at CERVERA DE PISUERGA turned E. onto P-212 to AGUILAR DE CAMPÓO (we passed PANTANO DE AGUILAR DE CAMPOO = doesn't look like good habitat as do none of the PANTANOS). At Aguilar we picked up N-611 to Palencia. In Palencia we took N-620 to VALLADOLID where we camped for the night. Most of the area driven through looked like wheat field or pasture land.

19 AUG 75 SPAIN: VALLADOLID PROV.; VALLADOLID.

Left at 1330 on N-620 to SALAMANCA. In Salamanca at 1600 we surveyed RÍO TORMES where Rana ridibunda were common but not collected. Took N-630 S. to BÉJAR; in Béjar, turned on road to CANDELARIO and camped in the SIERRA DEL CANDELARIO.

20 AUG 75. SPAIN: SALAMANCA PROV; CANDELARIO.

Surveyed Sierra del Candelario by Mirador. Dry Pine forest and nothing was seen. Even Lacerta were unavailable.

Returned to Béjar around 1000 HRS, proceeded N on N-630, turned E. on C-500 toward EL BARCO DE AVILA. At Border of SALAMANCA and AVILA, 1100-1200 HRS, I saw one young Acanthodactylus erythrurus in a hayfield 2 km W. OF S. BARTOLOMÉ DE BÉJAR. 1215 HRS, checked a bridge .25 km W. OF S. BARTOLOMÉ DE BÉJAR & saw 1 Lacerta hispanica and 1 L. sp. (large + green, saw head only from below a bridge). 1230 HRS, at sign for S. BARTOLOMÉ DE BÉJAR at bridge at km 13, 2 LACERTA SCHREIBERI (23951-23952, ♂, 12g + 15g).

Drove on to bridge over creek in BECEDAS where I found one LACERTA MURALIS (23953) at 1244 [3.8g]. T_A = 33.5°C. At 1250-1310 surveyed a bridge 1 km W. of PALACIOS DE BECEDAS where I found LACERTA LEPIDA (23954, 24.0g, T_B = 36.8), L. SCHREIBERI (23955, 12.0g, T_B = 33°; ♀) AND 1 L. HISPANICA (23956, 2.8g, ♂).

1335, 3 km N.W. EL BARCO DE AVILA between km 26 + 27, we found (D.O.R. Elaphe scalaris (23957, NO WEIGHT). At 1400, in a stream 1 km SW of EL Barco de Avila we observed RANA ridibunda in the stream off N-110.

20 AUG 75

5 km SW EL BARCO DE AVILA AND 1 km NE CANALEJA (1405) found 1 *L. HISPANICA* (23958, 3.8 g). At 1415, we saw a *Bufo bufo* DOR ON Road to C° DE LA CENTRAL DEL CHORRO AND SOLANA (CA. 2 km. E SOLANA DE BÉJAR). 1440, we arrived at gate to LAGUNA DEL DUQUE which is a gov't owned power plant w/ aqueduct and pipeline. Turned around, returned to N-110, proceeded N. to El Barco del Avila again where we turned SE on C-500. At 1700, 4 km W. of LA ANGOSTURA between km 13 & 14, 1 *LACERTA SCHREIBERI* (23959, 16.0 g) collected. Proceeded to SAN MARTÍN DEL PIMPOLLAR where 1 *Lacerta schreiberi* (PHOTO 23960, 48 g) was taken at campground behind SERVICIOS. THUNDERSTORM

21 AUG 75

SPAIN: AVILA; SAN MARTÍN DE PIMPOLLAR.

Collecting locally.

0830 = T_A = 14°C

0900 = T_A = 14.6°C

0915 = T_A = 17.1°C

Lacerta sp. juvenile seen active on sunny side of rock.

0945 = 19.4°C = T_A

L. sp. still sunning / feeding on small insects on adjacent rocks.

0950 = *L. hispanica* taken from rock

THE FOLLOWING RE: *L. HISPANICA* TAKEN

TIME	T_A	T_B	NOTES
1005	22.4	28.4	in sun on rock
1017	25.6	25.4	" "
1020	23.0	33.4	" "
1024	22.8	34.9	" "
1030	29	34.8	" "

21 AUG 75

	TIME	T_A	T_B	NOTES
	1032	22.5	34.8	In sun
	1041	24.8	34.3	" "
	1050	23.8	32.2	" " Light slate grey snake seen
	1100	22.8	35.5	
L. SCHREIBERI	1110	29.5	37.5	T_{AIR} = 24°C. In bush.
	1120	27.8	36.7	
	1125	34.5	36.6	
	1127	26.4	36.3	
	1137	26.8	35.0	
	1138	19.5 (shade)	33.0	He was in sun.
L. SCHREIBERI	1147	28.0	37.2	IN SUN
	1219	26.4	34.8	
L. SCHREIBERI	1228	29.4	37.0	
	1233	31	38.4	

L. HISPANICA T_A N = 16 $\bar{x}$ = 25.57 °C

T_B N = 16 $\bar{x}$ = 34.03° C

L. SCHREIBERI T_A N = 3 $\bar{x}$ = 28.97 °C

T_B N = 3 $\bar{x}$ = 37.23°C

L. HISPANICA (23961 - 23979 : WEIGHTS FOLLOW RESPECTIVE ORDER, I.E. 23961 WEIGHED 5.4g) WEIGHTS:

5.4, 4.8, 4.2, 3.1, 3.6, 3.8, 4.2, 3.8, 6.4, 3.8, 3.0, 6.2, 2.4, 3.8, 3.2, 3.4, 2.6, 2.6, 3.8g ($N = 19$, $\bar{x} = 3.9$g)

L. SCHREIBERI (23980 - 23982, IBID) WEIGHTS:

55.0, 37.0, 23.0g ($N = 3$, $\bar{x} = 38.3$g)

21 AUG 75

1854 - 1937 HRS, SURVEYED a hill to the W. of San Martín de PIMPOLLAR (ÁVILA). 1904 HRS, T_A = 28.0°C, under rock a CHALCIDES CHALCIDES (23983, 6.4g) at T_t = 32.8°C found.

2200 - 2245 HRS, Surveyed stream (polluted) behind San Martín. 2230 HRS, one Rana iridiunda (23984, 86g), cold wind, storm rolling in and we went back to the tent.

22 AUG 75

SPAIN; ÁVILA; SAN MARTÍN DE PIMPOLLAR (LA CHOZA DE GREDOS)

0900 = T_A = 9.8°C, winds ca. 20 MPH. We left at 1000 HRS on C-502 to Ávila where we took N-110 to SEGOVIA and stayed night in Segovia waiting for weather to change.

23 AUG 75

SPAIN: SEGOVIA; SEGOVIA

Left at 1100 HRS. T_A = 12°C and winds ca. 20 mph. Took N-110 to C-606 to C-603 at 1200 HRS surveyed a Pinus forest on C-603 between Km 35 and 37. T_a = 18°C and chilly winds. Found nothing in this MONTE DE UTILIDAD PUBLICA of scarce undergrowth and sand surface. Surveyed another very similar area at 1450, 2 km from NAVES DE ORO (T_a = 18°). 1557 HRS, in vic COCA, T_A = 22.4°C, another pine forest. Drove to Segovia, left on N-601 to South to NAVACERRADA (MADRID), turned E. on C-~~502~~ 601 to Cercedo and NE to MANZANARES EL REAL where we spent the night

24 AUG 75

SPAIN: MADRID; MANZANARES EL REAL (in MTS. above by campground).

1000 - 1200 HRS, Surveyed MTS. to NE of MANZANARES and found several PSAMMODROMUS ALGIRUS whose data follow:

24 AUG 75

TIME	T_b	T_A	NOTES
1007	33.6	16.5	
1020	33.4	27.5	
1027	33.4	17.6	
1039	40.6	21.2	
1045	39.2	21.6	
1049	37.1	22.4	
1054	34.0	26.0	
1059	34.0	23.0	
1101	35.8	23.5	
1120	30.4	20.5	
1126	37.0	23.0	
1130	37.8	25.5	

And 1 Acanthodactylus erythrurus at 1110, T_b = 34.4, T_A = 24.0°C and the weight of this specimen (23997) was 5.9 grams.

The vegetation was primarily CISTUS LADANIFER (L.) and LAVANDULA STOECHAS L. and was at a fairly high (1500) altitude where these two species occured together.

Psammodromus algirus (23985-23996, weights follow respective order):

13.5, 5.8, 7.4, 4.7, 7.9, 6.6, 9.8, 9.2, 8.6, 5.8, 7.2, 6.0, $N = 12$ $\bar{x} = 7.7$

Left at 1230 HRS for VILLALBA and EL ESCORIAL. Continued S. on C-501; at 1923 we found one MALPOLON MONSPESSULANUS (23998) D.O.R. at 7 km E. ⊥ w/ C-502 (≅ 8 km ENE ARENAS DE SAN PEDRO on C-501)

24 AUG 75 between Km 116 and 117.

Continued on C-501, turned NW to GUISANDO where we spent night at LOS GALAYOS campground

25 AUG 75 SPAIN: ÁVILA; LOS GALAYOS AT GUISANDO.

LOS GALAYOS (LA MIRA) at the area where ICONA has 2 houses and a statue of a goat.

1025 - 1230 HRS, in a montane area of granite rocks with ferns and grasses, we found, amid the pines, several PSAMMODROMUS ALGIRUS as follows:

TIME	T_b	T_A	
1025	36.0	27.0	
1035	35.5	26.0	N = 15
1039	36.0	24.6	LOW 32.0 20.4
1046	32.8	26.2	HIGH 38.6 32.0
1103	33.8	20.4	$\bar{x}$ 35.24 25.04
1105	32.0	22.6	SE 0.48 0.86
1111	34.0	21.6	95% 34.7 - 36.3 23.2 - 26.9
1118	35.0	23.0	VARIANCE 3.426 10.55
1122	37.0	24.5	
1126	32.8	23.2	
1137	35.8	28.5	
1153	35.6	23.6	
1156	37.3	30.4	
1212	38.6	32.0	
1228	36.5	22.0	

$N = 15$ $\bar{x} = T_b = 35.2°C$

$\bar{x} = T_a = 25.0°C$

and 2 Lacerta hispanica (23999 - 24000, 12.4 and 0.4 g respectively, 1057, T_b = 32.4, T_a = 21.6 and 1134, T_b = 30.8, T_a = 29.0°C respectively).

25 AUG 75

Psammodromus algirus (24401 - 24415) weights respectively:
5.4, 8.8, 6.3, 4.2, 5.6, 7.8, 6.4, 10.0, 9.0, 7.1, 8.4, 7.9,
6.9, 9.1, 12.5 $N = 15$; $\bar{X} = 7.69$

1819, at compound, we were given one CHALCIDES CHALCIDES (24$\overset{4}{\emptyset}$16, .55g).

1300, D.O.R. NATRIX MAURA on road to ICONA camp area.

2100, a NATRIX MAURA was collected in a pool to the S. of the camp on the Río Pelayo N. of GUISANDO (24$\overset{4}{\emptyset}$17, 24g)

WE went night driving from 2130 to 2345 along the roads from GUISANDO to ARENAS DE SAN PEDRO, turned W. to CANDELEDA on C-501 sin VER NADA.

26 AUG 75

SPAIN: ÁVILA PROV; GUISANDO

Drove to Guisando where we turned E. on a dirt road into the MTS. From 1000-1015, ca. 4 km N.E. GUISANDO, on a large granite outcropping with an E. exposure I saw one Lacerta hispanica at 1015. Nothing else noted.

1045, surveyed another area of rock outcropping but no Vipera seen. One Psammodromus algirus (24$\overset{4}{\emptyset}$18, 5.4g) at $T_B = 36.8°C$, $T_A = 23.0°C$. ⇒
Returned to GUISANDO and drove to ARENAS DE SAN PEDRO where we turned N. on the road to EL HORNILLO. Between 1200-1215, on a bridge 5 km N. of EL HORNILLO I juv. L. schreiberi (24$\overset{4}{\emptyset}$19, 1.3g) captured; at 1310 2 km from MONTE #11 (EL HORNILLO) DOMINGO FERNANDO (ICONA SITE) I L. HISPANICA on a rock wall (24$\overset{4}{\emptyset}$20, 0.6g). 1317, almost at ICONA site, a Elaphe scalaris DOR (24$\overset{4}{\emptyset}$21) collected.

1507, 4 km N. EL ARENAL another Psammodromus

26 AUG 75

algirus found (24♀22, 5.6g, $T_B = 37.4$, $T_A = 33.4$).
Returned to camp at 1700 and found the following waiting for us:

2 LACERTA HISPANICA (24♀23-24, .6 + 1.0g)
1 RANA IBERICA (24♀25, 3.0g)
1 P. ALGIRUS (24♀26, 0.6g)
1 NATRIX MAURA (24♀27, 29.5g)

27 AUG 75

SPAIN: ÁVILA PROV; GUISANDO

Left about 0930 HRS, drove thru Arenas de San Pedro to Mombeltran, PTO del Pico, turned E. at Venta de Rosquilla to S. Martín del Pimpollar and Hoyos del Espino where we turned S. to the Refugio del Club Alpino (ca. 13 km S) and then walked in to the REFUGIO DEL REY near ALMANZOR. We reached the REFUGIO at 1125 HRS and walked in until 1340 where we lunched at the lake. The following specimens were collected and the data are as follows:

LACERTA MONTICOLA

TIME	T_b	T_A	
1131	34°C	22.5°C	
1139	28.8	13.4	
1150	31.8	17.5	
1153	31.0	17.8	
1200	33.4	17.8	
1343	33.8	20.6	Green specimen
1345	34.5	16.0	"
1442	25.8	16.4	"
1540	34.5	24.0	

	TIME	T_b	T_A
27 AUG 75	1610	32.0 °C	21.0 °C
	1647	30.5	22.8
	1720	28.4	13.4
	1746	34.0	19.5
	1753	32.4	19.0

$\bar{X}$s ∴ T_b N = 14 $\bar{X}$ = 31.8 °C

T_A N = 14 $\bar{X}$ = 18.7 °C

Small frogs (= Rana iberica) 24445 - 24449 - 24450 [Duval series] collected from N. side of Laguna grande where T_{H_2O} = 19°C in shallows at 1425. Also collected one Salamandra s. bejarae (almanzoris ??) [24444] from N. end of lake from under rock in shaded area at 1452 which weighed 10.5 g.

Arrived back at car at 1825 HRS, started back to Madrid and at 1 km S. Hoyos del Espero (at Río Tormes) at 1840 one Rana ridibunda DOR seen. Arrived in Madrid on 28 AUG 75 @ 0200 HRS.

Weights on Lacerta monticola

#	WEIGHT	NOTES
CM 60904 24430	7.2	PHOTO (brown)
CM 60905 24431	9.4	PHOTO (green)
432	5.7	
33	1.9	
34	6.1	
35	6.4	
36	7.6	
37	7.6 + 1.4 (TAIL) = 9.0 g	
38	7.0	
39	6.2	

#	WEIGHT	NOTES
24440	6.4	
41	1.9	
42	2.0 + .6 (2.6)	TAIL ATTACHED
43	2.5 + .2 (2.7)	TAIL ATTACHED

$N = 14$ $\bar{x} = 5.7g$

28 AUG 75 Visited DR. ORTIZ at the MNCN (MADRID) and examined Cádiz specimens in his collection. They don't have many but what is there appear well curated. Used rest of day to ship equipment back to Smithsonian from Embassy.

29 AUG 75 Turned in car and did shopping plus note taking and transcribing.

30 AUG - 1 SEP 1975 SIGHTSEEING IN MADRID + FLIGHT HOME.

PLANE FARE = $470.00
AUTO RENT = 386.74
GASOLINE = 90.95
EXPENSES = 390.00
$1337.69

473 specimens
$2.83/specimen
$43/day

END 1975 (NW SPAIN)

LODGING = $111.55
FOOD = 141.71 ~~125.71~~ 74
MISC = 136.~~69~~
~~267.71~~
390.00

MADRID - BURGOS - SANTANDER - LEON - SANTIAGO - VALLADOLID - OVIEDO - SALAMANCA - AVILA - SEGOVIA - EL ESCORIAL - MADRID.

A GOOD TRIP ☺

USNM Acc# 318377
CM Acc# 3111 + 3144, (RECEIPT #)

CMFS 23508-23514 BUFO BUFO

23508-10 = CM 60846-48
23511-13 = USNM 199057-59
23514 = MADRID

SPAIN: SANTANDER; VIC. SANTILLANA DEL MAR.
2 AUG 1975. S.D.B. & J.S. PETERS. DOR/AOR
ON HIGHWAY AFTER HEAVY RAIN, 10-10:30 pm,

CM 60911 23515 LACERTA ~~SP~~ MURALIS

SPAIN: OVIEDO PROV; 1 km N. PANES ON N-621 4 AUG 75
1315, ON ROCK WALL, S.D. BUSACK WT: 6.2

CM 60917 23516 LACERTA MURALIS

SPAIN: LEÓN PROV; SOTO DE SAJAMBRE, 1 km. S. 4 AUG 75
1820 HRS, S.D. BUSACK WT: 4.5

23517-23 = CM 60918-24
23524-30 = USNM 199186-92
23531 = MADRID

23517 - 23531 LACERTA MURALIS

SPAIN: LEÓN PROV; OSEJA DE SAJAMBRE, 2 km N. ON C 637
1030-1200 HRS, $\bar{x}$ T_b = 34.9°C, $\bar{x}$ WT ♂♂ 4.5 ♀♀ 2.8, 5 AUG 75
S.D. BUSACK, J.S. PETERS, P.W. HOPKINS 23530-531 PHOTO

23532 - 23550

SPAIN: OVIEDO PROV; WEST SIDE LAGO DE LA ERCINA (S. OF COVADONGA by 8 km.) 1500-1700, S.D. BUSACK, J.S. PETERS 5 AUG 75

CM 60961 23532 = PSAMMODROMUS HISPANICUS ♂ 3.2g
CM 60807(20) 23533 = TRITURUS HELVETICUS (20 larvae @ 0.1g)
23534-41 = USNM 199145-52
23542-50 = CM 60808(9) 23534-550: T. HELVETICUS (PART OF SERIES W/ 23601-23617.)
(N=33, $\bar{x}$ WT. = .94g)

23601 - 23624

SPAIN: OVIEDO PROV; LAGO DE LA ERCINA, W. SIDE

1500-1700, 5 AUGUST 1975, S.D. Busack, J.S. Peters.

23601-8 = USNM 199153-60
23609-17 = CM 60809(9) 23601-617 = TRITURUS HELVETICUS (N=33, $\bar{x}$ WT. = .94g)

CM 60798-60800 23618-620 = T. ~~BOSCAI~~ alpestris ($\bar{x}$ WT = 2.2g)

USNM 199026-28 23621-623 = ALYTES OBSTETRICANS ($\bar{x}$ WT. = 1.17g)

CM 60902 23624 = LACERTA MONTICOLA (♂, 5.8g) fide E.N. ARNOLD

23625 - 23671

SPAIN: OVIEDO PROV; LAGO DE LA ERCINA, EAST SIDE.

2000-2300 HRS, 5 AUG 1975, S.D. Busack, J.S. Peters.

23625 = USNM 199060
23626-7 = CM 60849-50 23625-23627 = BUFO BUFO ($\bar{x}$ = 28g)
23628-32 = USNM 199161-65
23633-39 = CM 60810-16 23628-23639 = TRITURUS HELVETICUS ($\bar{x}$ = 1.18g)
23640-50 = USNM 199029-39
23652-63 = CM 60824(12) 23640-23663 = ALYTES OBSTETRICANS ($\bar{x}$ = 3.66g)

CM 60823 = [23651 = EGGS]

CM 60868 23664 = RANA ~~IBERICA~~ TEMPORARIA (0.7g)
23667-70 = USNM 199136-39
23665-66 = CM 60801-02 23665-23670 = T. ~~BOSCAI~~ alpestris ($\bar{x}$ = 3.22g)

CM 60944 23671 = EGGS

CM 60825 23672

SPAIN: OVIEDO PROV; LAGO DE LA ERCINA - LAGO ENOL, VIC. MINING CAMP.

6 AUG 1975, S.D. Busack.

ALYTES OBSTETRICANS

23673 - 23688

SPAIN: OVIEDO PROV; LAGO DE LA ERCINA, EAST SIDE.

1930 - 2020 HRS, 6 AUG 1975, S.D.B. & J.S.P.

23673 = LACERTA ~~MURALIS~~ MONTICOLA (1.1g) fide E.M. ARNOLD

USNM 199061 = 23674 = BUFO BUFO (33.0g)

USNM 199140 = 23675 = T. BOSCAI (3.6g)

23676-86 = USNM 199040-50
23687-88 = CM 60826-7 23676-23688 = A. OBSTETRICANS (N=12, $\bar{X}$ = 3.14g)

23689 - 23699

SPAIN: OVIEDO PROV; LAGO DE LA ERCINA, WEST SIDE.

2025 - 2100 HRS, 6 AUG 1975, S.D.B. & J.S.P.

CM 60828-37 23689 - 23698 = A. OBSTETRICANS (N=10, $\bar{X}$ = 2.95g)

CM 60817 23699 = T. HELVETICUS (1.6g)

23700 - 23711

SPAIN: OVIEDO PROV; LAGO DE LA ERCINA, N. END. MARSHES.

2230 - 2300, S.D. BUSACK. 6 AUG 1975

23706-10 = USNM 199088-92
23700-705 = CM 60869-74 23700 - 23710 = RANA ~~IBERICA~~ TEMPORARIA (N=11, $\bar{X}$ = 38.5g)
CM 60818(5) 23711 (PART) = TRITURUS HELVETICUS (LARVAE)
CM 60875(2) 23711 (PART) = RANA TEMPORARIA (TADPOLES)

23712 - 23721

SPAIN: OVIEDO PROV: 6 KM W. SALAS ON N634. 7 AUG

1617 - 1718, S.D. BUSACK, J.S. PETERS, T_A = 18.6, T_{H_2O} = 16.6°C.

23712-15 = USNM 199098-101
23716 = MADRID
23717-20 = CM 60786-89 23712 - 23720 = CHIOGLOSSA LUSITANICA ($\bar{X}$ = .74)

23721 = * SNAIL * EGG MASS (.5g)

23722 - 723

SPAIN: OVIEDO PROV; 6.5 Km W. SALAS ON N634

23722 = USNM 199102 1728 - 1829, S.D.B. 7 AUG 75

23723 = CM 60790

CHIOGLOSSA LUSITANICA

PHOTO

23724 - 23734

SPAIN: OVIEDO PROV; AT KM 279 POST ON N634

NEAR CASTAÑEDO. (= 9 km S. PONTIGÓN) 8AUG75, SDB + JSP.

23724-27 = USNM 199103-106
23733 = MADRID
23728-32 = 60791-5 (CM)
23734 = CM 60876

23724 - 23733 = CHIOGLOSSA LUSITANICA ($\bar{x}$ = .74 g)

23734 = RANA (?) Temporaria (.2g)

23735 - 23746

SPAIN: LUGO PROV; ~~3~~ 3 km W. TUMBO AT RÍO TAMOGA

BRIDGE. 1400-1500 HRS, T_A = 21.5 - 22°C. SDB & JSP, 9AUG75

CM 60862 — 23735 = RANA RIDIBUNDA (22 g)

23739-41 = USNM 199072-74
23736-8 = CM 60857-9 — 23736-23741 = BUFO CALAMITA (5.4-8.5 g. See NOTES)

23742 = MADRID — 23742 = B. CALAMITA (PHOTO, 6.7 g)

CM 60851 — 23743 = B. bufo (17 g)

CM 60877-8 — 23744-45 = RANA ~~IBERICA~~ TEMPORARIA

CM 60819 — 23746 = TRITURUS HELVETICUS (1.6 g)

23747

SPAIN: LA CORUÑA; 3 km W. LUGO PROV. BORDER ON C547 (km 557) NEAR LEBOREIRO, 10 AUG 1975 1400 HRS, 3.3 g., SDBusack

CM 60891 — LACERTA BOCAGEI

23748- 23752

SPAIN: LUGO PROV; S. SIDE OF VILELA ON N-540.

T_A = 26°C, T_{H_2O} = 32° C, 1520-1620 HRS, 10 AUG 1975.

S.D. Busack + J. S. Peters.

CM 60892

23748 = LACERTA BOCAGEI (5.8 g)

23749-52 = RANA RIDIBUNDA (see notes for weights)

23750 = USNM 199076
23751 = MADRID
23749 = CM 60863
23752 = CM 60864 (11)

CM 60965 23753

SPAIN: PROV. ORENSE; D.O.R. BETWEEN km 1 + 2 ON C-533, 2 km W. OF LA RÚA. 10 AUG 75 S.D. Busack + J.S. Peters.

MALPOLON MONSPESSULANUS

23754-56

SPAIN: PROV. LEON; EMBALSE DE PUMARES NEAR RÍO S/L AT SALAS DE LA RIBIERA. ON N-120, 2230 HRS., 10 AUG 75

S.D. Busaek + J. S. Peters

23754 = CM 60865
23755 = USNM 199077
23756 = MADRID

RANA RIDIBUNDA (5.0, 16.0, 26.0 g)

23757-23758

SPAIN: LEÓN PROV; 1 km E. CARUCEDO ON N-120, by natural lake. 11 AUG 1975 SBB + JSP.

CM 60900 23757 = LACERTA LEPIDA (74.0 g), (1130 HR)

CM 60967 23758 = NATRIX MAURA (85.0 g, 1215 HR)

23759 - 23760

23759 = CM 60912

23760 = missing lost (?)

SPAIN: LEON PROV; 1 km W. OF CANDANEDO DE FENAR (NEAR LA ROBLA) [BETWEEN KM 18 + 19 ON C-626]

12 AUG 1975, 1300 - 1330, T_A = 24°C, POLLUTED STREAM, SDB + JSP.

LACERTA MURALIS (3.2 + 4.0 g)

23761 - 23764

SPAIN: LEON PROV; 1 km W. OF ROBLES DE LA VALCUEVA [= 1 km W. INTERSECTION C-656 W/ LE-311 ON C-656].

1335 - 1405, T_A = 24°C, SDB + JSP, 12 AUG 1975

23761 - 62 = CM 60913-4

23763-64 = USNM 199193-4

LACERTA MURALIS (2.6, 6.1, 6.4, 7.4 g.)

CM 60915 23765

SPAIN: LEON PROV; VEGACERVERA, ON RIÓ TORIO OFF LE-311. 1500 - 1520, T_A = 27.5°C, 12 AUG 1975, SDB + J.S.P.

LACERTA MURALIS (6.8 g)

CM 60879(9) 23766 (9)

SPAIN: LEON PROV; CUEVA DE VALPORQUERODE

1900 - 2030, T_A = 20°C, IN STREAM FED POND

S.D. Busack + J. S. Peters, 12 AUG 1975

RANA (TADPOLES)

CM 60916 23767

SPAIN: LEON PROV; VALPORQUERODE (NW OF VEGACERVERA)
1030-1200, 13AUG 1975, SD BUSACK & J. S. PETERS

LACERTA MURALIS (2.5g)

23768-23780

SPAIN: LEON PROV; ON RIÓ VALVERON WHERE IT CROSSES LE-311 (BY ROAD: 42 km N. OF LEON, 2 km S. CARMENES, 13 km W. VALDETEJA). 1230-1400, S.D. BUSACK, 13 AUG 1975

CM 60852
23769-73 = CM 60925-9
23774-78 = USNM 199195-99
23779 = MADRID

23768 = BUFO BUFO (77.0g)
23769-779 = LACERTA MURALIS (N = 11 $\bar{X}$ = 4.7g)
CM 60885 23780 = ANGUIS FRAGILIS (18.0g, PHOTO)
[tail broken by idiot]

23781-23782

SPAIN: LEON PROV; .5 km S. CAMPO (= 3 km N. OF CÁRMENES). 1500-1515, CLOUDY, WINDY, UNDER ROCKS IN GRASSY FIELD. 13AUG 75

CM 60886 23781 = ANGUIS FRAGILIS (27.0g)
CM 60930 23782 = LACERTA MURALIS (7.0g)

23783

SPAIN: LEÓN PROV; .5 km N. ISOBA IN RIÓ DE ISOBA

T_{H_2O} = 11.4°C, T_A = 11°C, 0900-0930. S.D. Busack, 14AUG75

USNM 199062 (130)
CM 60822 (133) = ALYTES CISTERNASII (??)
CM 60883 (3) = ~~?~~ ALYTES OBSTETRICANS TADPOLE SERIES SAB 10/16/2015

23784 - 23852

SPAIN: LEÓN PROV; .5 km S. ISOBA AT LAGO DE ISOBA

1100-1300, RAINING. S.D. Busack & J.S. Peters. 14AUG75

23784 (19) = CM 60860 (19)
23785-94 = CM 60866 (10)
23795-804 = USNM 199078-87
23805-6 = MADRID

23813-20 = CM 60838-45
23821-26 = USNM 199051-56
23807-12 = MADRID

23828-29 = USNM 199093-4
23827 (5) = CM 60880 (5) ~~SAB~~

23830 = CM 60931
23831 = USNM 199200
23832 = MADRID

CM 60853
23834-37 = CM 60803-60806
23838-41 = USNM 199141-44
23842-45 = MADRID

23847-48 = USNM 199166-67
23846 = MADRID
23849-50 = CM 60820 (10)
23851 = USNM 199209
23852 = CM 60945

23784 (19) = HYLA ARBOREA (@ 0.3g)

23785-23806 = RANA RIDIBUNDA (N=19 $\bar{x}$ = 2.04g, ♂♂ at 17, 20, and 14.5g)

23807-23826 = ALYTES OBSTETRICANS (N=19, $\bar{x}$ = 1.02; 1 adult @ 6.4g)

23827 (5)-23829 = RANA TEMPORARIA ~~IBERICA~~ (N=5 @ .4g, 21.0 and 10.0g FOR ADULTS)

23830-23832 = LACERTA MURALIS (N=3, $\bar{x}$ = 5.13g)

23833 = BUFO BUFO (26.0g)

23834-23845 = TRITURUS BOSCAI (N=12, $\bar{x}$ = 2.35g)

23846-23850 (9) = T. HELVETICUS (N=3, $\bar{x}$ = 1.33g; N=10, $\bar{x}$ = .3g)

23851-23852 = PSAMMODROMUS ALGIRUS (.2 & .4g)

23852 = ZOOTOCA VIVIPARA SAB 1/2016

23853 - 23930

SPAIN: LEÓN PROV; 7 km S. OSEJA DE SAJAMBRE (C-637) TO 13 km S. OSEJA DE SAJAMBRE + 5 km. S. PTO PANDERRUEDA TO PTO PANDERRUEDA. (ALL A.O.R.).

2155 - 2400 HRS, T_A = 16.0 - 10.2°C, T_{ROAD} = 12.4 - 15.2°C, [S. SALAMANDRA T_B = 13.3 - 16.0°C.]

14 AUG 1975, S.D. Busack & J.S. Peters

23853 - 82 = CM 60797(31)
23883 - 911 = USNM 199107-35

23853 - 23911 = SALAMANDRA SALAMANDRA FASTUOSA (N=63, $\bar{X}$ = 12.29g) BERNARDEZ!

23914 - 21 = CM 60854(8) CM 60821
23922 - 30 = USNM 199063-71
23913 = MADRID

23912 = TRITURUS HELVETICUS (2.0g)

23913 - 23930 = BUFO BUFO (N=18, $\bar{X}$ = 46.7g)

23931 - 23939

SPAIN: LEÓN PROV; OSEJA DE SAJAMBRE AT CAPITA SAN ROQUE 1600-1800, 15 AUG 1975, S.D. Busack & J.S. Peters.

23931 - 33 = CM 60932-4
23934 - 6 = USNM 199201-03
23937 = MADRID

23931 - 23937 = LACERTA MURALIS (N=7, $\bar{X}$ = 3.68)

CM 60887 — 23938 = ANGUIS FRAGILIS (12.5g)

CM 60962 — 23939 = CORONELLA AUSTRAICA (43.5g)

23940 - 23942

SPAIN: LEÓN PROV; OSEJA DE SAJAMBRE, 11 km S. AT FUENTE DEL INFIERNO. (RIÓ SELLA). 1330-1530, S.D. Busack. 15 AUG 1975

23940 = CM 60935
23941 = USNM 199204

23940 - 23941 = LACERTA MURALIS ($\bar{X}$ = 5.4g, 4.4 & 6.4g)

CM 60855 — 23942 = BUFO BUFO (58g).

23943 - 23945

SPAIN: OVIEDO PROV.: LLANES, EL BRAO campground

16 AUG 1975, S.D.B. + J.S.P.

23943 = MADRID
23944 = USNM 199205
23945 = CM 60936

LACERTA MURALIS (N = 3; $\bar{x}$ = 3.47g)

23946

SPAIN: OVIEDO PROV; LAS AREÑAS DE CABRALES

17 AUG 1975, S.D. Busack.

CM 60890 CHALCIDES CHALCIDES (12.5g)

23947 - 23948

SPAIN: OVIEDO PROV; 5 km E. LAS AREÑAS AT RIÓ CARES.

18 AUG 75, S.D.B. + J.S.P. + PETER W. HOPKINS, 1000 - 1200 HRS, T_A = 18°C.

23947 = USNM 199206
23948 = CM 60937

LACERTA MURALIS (N = 2, $\bar{x}$ = 3.55g)

23949

MNCN 1995

SPAIN: LEÓN PROV; 7 km S. OSEJA DE SAJAMBRE,

2155 - 2400 HRS. S.D.B. + J.S.P. 14 AUG 1975. (PRESERVED 18AUG75)

Returned to Spain, at Madrid

SALAMANDRA SALAMANDRA (5.2g)

FASTUOSA

23950

SPAIN: SANTANDER PROV; 10 km N OF OJEDO BETWEEN Km. 420 + 421, D.O.R. ON N-612. 1538 HRS. 18 AUG 1975. S.D. Busack + J.S. Peters.

CM 60969 NATRIX NATRIX

23951 - 23952

SPAIN: AVILA PROV; S. BARTOLOMÉ DE BÉJAR (BRIDGE AT km 13. ON C-500)

1230 HRS, S.D. Busack, 20 AUG 1975

23951 = CM 60938
23952 = USNM 199207

LACERTA SCHREIBERI (♂♂, 12 + 15 g)

23953

SPAIN: AVILA PROV; BECEDAS

20 AUG 1975, 1244, T_A = 33.5°C., ON BRIDGE IN TOWN.

S.D.B. + J.S.P. 20 AUG 1975

CM 60893 LACERTA HISPANICA (3.8 g)

23954 - 23956

SPAIN: ÁVILA PROV; 1 km W. PALACIOS DE BECEDAS

1250 - 1310, S.D. Busack, 20 AUG 1975

CM 60901 23954 = LACERTA LEPIDA (T_B = 36.8, 24.0 g)

CM 60939 955 = L. SCHREIBERI (T_B = 33°C, ♀, 12.0 g)

CM 60894 956 = L. HISPANICA (2.8 g, ♂)

23957

SPAIN: AVILA PROV; 3 km NW EL BARCO DE AVILA BETWEEN km 26+27 ON C-500. D.O.R., 1335 HRS. 20 AUG 1975 S.D. Busack

CM 60963 ELAPHE SCALARIS

23958

SPAIN: AVILA PROV; 5 km SW EL BARCO DE AVILA + 1 km NW CANALEJA ON N-110 (BRIDGE) 1405 HRS, 20 AUG 1975, S.D. Busack.

CM 60895 LACERTA HISPANICA (3.8 g)

23959

SPAIN: AVILA PROV; 4 km W. LA ANGOSTURA BETWEEN km 13+14 ON C-500. 1700 HRS, 20 AUG 1975, S.D. Busack.

CM 60940 LACERTA SCHREIBERI (16.0 g)

23960

SPAIN: AVILA PROV; SAN MARTÍN DE PIMPOLLAR

1900 HRS, S.D. Busack, 20 AUG 1975

CM 60941 L. SCHREIBERI (48.0g) [PHOTO]

23961 - 23982

SPAIN: AVILA PROV; SAN MARTÍN DE PIMPOLLAR

0830 - 1233 HRS, S.D. Busack, 21 AUG 1975

23961-69 = CM 60896(9)
23970-78 = USNM 199168-76
23979 = MADRID
23980 = MADRID
23981 = CM 60942
23982 = USNM 199208

23961 - 23979 = L. HISPANICA ($\bar{x}T_A = 25.6°C$, $\bar{x}T_b = 34.0°C$, $3.9g = \bar{x}$ $N = 19$)

23980 - 23982 = L. SCHREIBERI ($\bar{x}T_A = 29.0°C$, $\bar{x}T_b = 37.2°C$, $N = 3$, $\bar{x} = 38.3g$)

23983

SPAIN: ÁVILA PROV; SAN MARTÍN DE PIMPOLLAR

21 AUG 75, 1904 HRS, $T_A = 28.0°C$, $T_b = 32.8°C$.

S.D.B.

CM 60888 CHALCIDES DEDRIAGAI ~~CHALCIDES~~ (6.4g)

23984 SPAIN: ÁVILA PROV; SAN MARTIN DE PIMPOLLAR. 21 AUG 75, 2230, S.D.B. & J.S.P.

CM 60867 RANA RIDIBUNDA (86g)

23985 - 23997

SPAIN: MADRID; MANZANARES EL REAL

1000 - 1200 HRS, S.D. Busack + J. S. Peters.

24 AUG 1975.

23985-89 = cm 60946-50
23990-94 = USNM 199210**
23995-6 = MADRID

23985 - 23996 = *Psammodromus algirus* *

cm 60884 23997 = *Acanthodactylus erythrurus* (5.9 g, T_b = 34.4, T_A = 24.0°C, 1110.)

* N = 12, $\bar{x}T_B$ = 35.5, $\bar{x}T_A$ = 22.4, $\bar{x}$ WT = 7.7

** 199210, imm. ♂; 199211 mat. ♀ - early vitellog. follicles; 199212 mat. ♂; 199213 imm ♀, 199214 ♂ imm. FIDE G. ZUG 19 JUN '04

23998

SPAIN: Ávila; 8 km ENE Arenas de San Pedro (D.O.R. on C-501 between km 116 + 117), 1923, S.D.B. & J.S.P. 24 Aug 75.

cm 60966 *Malpolon monspessulanus*

⟹ 23999 - ~~24015~~ 24415

SPAIN: Ávila Prov; Guisando (Los Galayos)

25 Aug 75, S.D.B. & J.S.P., 1025 - 1230 hrs.

23999 = cm 60897
24000 = USNM 199177
24401-08 = cm 60951-58
24409-15 = USNM 199215-21

23999 - 24000 = *Lacerta hispanica* (12.4 + 0.4 g)

~~24401 - 24415~~ = *Psammodromus algirus* (N = 15, $\bar{x}T_B$ = 35.2, $\bar{x}T_A$ = 25.0°C, $\bar{x}$ WT = 7.7)

N 40. 223222°
W 5. 152051°
895 m
SBB 13 DEC 2015

24416
~~24016~~

SPAIN: ÁVILA PROV; GUISANDO.

25 AUG 1975, COLL. UNKNOWN, SDB PREP.

CM 60889 CHALCIDES ~~CHALCIDES~~ BEDRIAGAI (.55g)

24417
~~24017~~

SPAIN: ÁVILA PROV; GUISANDO, RIÓ PELAYO

25 AUG 1975, 2100, S.D.B.

USNM 199222 NATRIX MAURA (24g)

24418
~~24018~~

N40.23404, W 5.16207, 1105 m SPAIN: ÁVILA PROV; 4 km NE GUISANDO. (BY ROAD)

26 AUG 1975, 1045 HRS, T_B = 36.8, T_A = 23.0, 5.4g.

S.D.B. LA CABRA (see SLIDE)

CM 60959 PSAMMODROMUS ALGIRUS

24419
~~24019~~

SPAIN: ÁVILA PROV; 5 km N. EL HORNILLO.

1200-1215 HRS, 1.3g, S.D. Busack, 26 AUG 75

CM 60943 L. SCHREIBERI

24420
~~24020~~

SPAIN: ÁVILA PROV; 2 km from MONTE #11 (DOMINGO FERNANDO) AN ICONA SITE. (CA. EL HORNILLO)
26 AUG 75, .5 g, 1310 HRS., S.D. Busack.

CM 60898 LACERTA HISPANICA

24421
~~24021~~

SPAIN: ÁVILA PROV; AT MONTE #11 (DOMINGO FERNANDO), AN ICONA SITE near EL HORNILLO.
26 AUG 1975, 1317 HRS, D.O.R., S.D. Busack

CM 60964 ELAPHE SCALARIS

24422 CARRETARA DE MOMBELTRÁN
~~24022~~ N40.24862 W5.07889 SBB 1/2016

SPAIN. ÁVILA PROV; 4 km N. EL ARENAL
26 AUG 1975, 1507 HRS, 5.6 g, T_B = 37.4, T_A = 33.4 °C

cm 60960 PSAMMODROMUS ALGIRUS

24423 - 24427
~~24023 - 24027~~

SPAIN: ÁVILA PROV.; VIC. GUISANDO.
26 AUG 1975, collected by locals

24423 = cm 60899
24424 = USNM 199178
24425 = cm 60861
24426 = MADRID
24427 = 60968 (cm)

24423-4 = L. HISPANICA (.6 + 1.0 g)
24425 = R. IBERICA (3.0 g)
24426 = P. algirus (.6 g)
24427 = N. MAURA (29.5 g)

24428 - 24429

SPAIN: ÁVILA PROV; VIC. GUISANDO CAMPGROUND

26 AUG 1975, LOCAL CHILDREN (=JOSÉ LUÍS SOTO GARCIA)

24428 AT MADRID 15 JAN 1976. 24428 = LACERTA HISPANICA

USNM 199075 24429 = RANA IBERICA

24430 - 24450

SPAIN: ÁVILA PROV; LAGUNA GRANDE (SIERRA DE GREDOS), 13 km S. HOYOS DEL ESPINO, 1125-1753 HRS.

24430-36 = CM 60904-10
24437-43 = USNM 199179-85

27 AUG 1975, S.D. BUSACK & J.S. PETERS

24430 - 24443 = LACERTA MONTICOLA ($\bar{X}_S \cong N = 14$, $T_A = 18.7$, $T_b = 31.8$, $W_T = 5.7g$, 1ST 2 OF SERIES PHOTOGRAPHED)

NOTE: 24444 = CM 60796 IS A TOPOTYPE OF S.S. ALMANZORIS TYPE LOCALITY: LAGUNA GRANDE DE GREDOS. MÜLLER & HELLMICH, 1935.

CM 60796
24444 = SALAMANDRA S. BEJARAE (= ALMANZORIS??)
[10.5g, 1452 HRS, N. SIDE OF LAKE, UNDER ROCK NOT IN CONTACT W/ SOIL]

24447-9 = USNM 199095-97
24425-46 = CM 60881-2.
24445 - 24449 = RANA ~~IBERICA~~ TEMPORARIA (N. SIDE OF LAKE)

CM 60856 (32) 24450 = Larval series BUFO BUFO ($T_{H_2O} = 19°C$, 1425 HRS)

END 1975

NO FIELD TAG CM 60999 = SALAMANDRA SALAMANDRA

AVILÁ; GUISANDO AREA, AUG 1975

Collected and preserved by locals.