1971

Field Notes from Andalucía, SPAIN

Stephen D. Busack

(Morocco Notes not transcribed)

Transcribed from the originals (on file at Carnegie Museum of Natural History), edited for ease of use and understanding, by S. D. Busack, October, 2014 et seq.

1971, 7 January, Naval Base, Puerto de Santa María- Puerto Real- Chiclana-Vejer- Facinas- Puerto Real- Naval Base

1131hrs -1630 hrs, 9.4°C-17.8°C, clear skies, rain (intermittently since 1 January and a heavy rain fell on 5 January 1971).

1971, 7 January, Facinas (N36.14768 W5.70281), CA-221

8 km. NE, 1312 hrs, 15.6°C, large adult *Malpolon monspessulanus* (CMFS 19447; CM 54286) collected DOR. No signs of lizard activity on normal sites along road NE of Facinas.

1971, 7 January, Casas del Castaño (N36.30792 W5.59662), C-440

12 km. NW, D.O.R *Pelobates cultripes* and a black-backed stilt seen at 1450 hrs, 16.1°C.

14 km. NW, 2 *Pleurodeles waltl* seen DOR. and there is surface water on road.

1971, 7 January, Puerto Real, from N-IV at ~N36.53761 W6.16818 to C-440 via A-408

19 km. E, 1545 hrs -1555 hrs, 17.8°C (air), vicinity of small pond overhung by *Pistacia lentiscus* with *Chamerops humilis* in area. Bottom of pond with annual grasses, thorns around perimeter. Pond is in open and 6 *Pelodytes ibericus* (CMFS 19449-19454; CM 54288[6]) picked up under rocks. 18 km. E. at 1604 hrs (3) clutches of *Pelodytes ibericus* eggs (CMFS 19448, CM 54287) taken from 13.3°C water (14.4°C air). The eggs are laid in tight clusters and strings rather than masses; they are supported by the twigs (= wrapped around twig).

1971, 10 January, La Algaida (N36.862136 W6.302683)

1135 hrs -1426 hrs, 1135 hrs, 10.0°C

One Elk (♂) seen on entry to area.

1240 hrs, 10.6°C

1257 hrs, *Psammodromus algirus* seen active in *Corema album* off substrate.

1352 hrs, 12.2°C; 1426 hrs, 12.8°C END

1971, 11 January, Base Naval de Rota, General (~N 36.627812 W6.331415)

1 *Tarentola mauritanica* (CMFS 19455; CM 54289 ) collected by R. Gardner.

1971, 11 January, Puerto Real, from N-IV at ~N36.53761 W6.16818 to C-440 via A-408

1925 hrs – 2100 hrs. It has been raining all day and now we are having intermittent rain.

3 km. E, *Hyla meridionalis* (CMFS 19456-19463; CM 54290[8]).

1971, 11 January, Puerto Real, from N-IV at ~N36.53761 W6.16818 to C-440 via A-408 -2-

4 km. E, *Hyla meridionalis* (CMFS 19456-19463; CM 54290[8]).

11 km. E, *Hyla meridionalis* (CMFS 19456-19463; CM 54290[8]).

15 km. E, *Hyla meridionalis* (CMFS 19456-19463; CM 54290[8]).

15 km. E, *Hyla meridionalis* (CMFS 19456-19463; CM 54290[8]).

15 km. E, *Hyla meridionalis* chorus noted.

12 km. E, *Hyla meridionalis* (CMFS 19456-19463; CM 54290[8]).

4 km. E, *Pelobates cultripes* (CMFS 19472-19480; CM 54293[9]).

5 km. E, *Pelobates cultripes* (CMFS 19472-19480; CM 54293[9]).

6 km. E, *Pelobates cultripes* (CMFS 19472-19480; CM 54293[9]).

12 km. E, *Pelobates cultripes* (CMFS 19472-19480; CM 54293[9]).

14 km. E, *Pelobates cultripes* (CMFS 19472-19480; CM 54293[9]).

15 km. E, *Pelobates cultripes* (CMFS 19472-19480; CM 54293[9]).

19 km. E. *Pelobates cultripes* (CMFS 19472-19480; CM 54293[9]).

6 km. E, *Epidalea calamita* (CMFS 19492; CM 54302)

4 km. E, *Pelophylax perezi* (juv.) (CMFS 19464; CM 54291)

4 km. E, *Pleurodeles waltl* (CMFS 19481-19484; CM 54294-54297).

5 km. E, *Pleurodeles waltl* (CMFS 19481-19484; CM 54294-54297).

17 km. E, *Pleurodeles waltl* (CMFS 19481-19484; CM 54294-54297).

20 km. E, *Pleurodeles waltl* (CMFS 19481-19484; CM 54294-54297).

10 km. E, *Pleurodeles waltl* DOR.

13 km. E, 2003, *Discoglossus g. jeanneae* (CMFS 19485; Univ. of Minnesota).

14 km. E, *Pelodytes ibericus* (CMFS 19465-19471; CM 54292[7]).

18 km. E, *Pelodytes ibericus* (CMFS 19465-19471; CM 54292[7]).

19 km. E, *Pelodytes ibericus* (CMFS 19465-19471; CM 54292[7]).

13 km. E, *Pelodytes ibericus* (CMFS 19465-19471; CM 54292[7]).

18 km. E, *Bufo* *spinosus* (CMFS 19486; CM 54298).

6 km. E, *Triturus pygmaeus* (CMFS 19489-19490; CM 54299-54300, CMFS 19487-19488;

UCM 44923-44924).

11km. E, *Triturus pygmaeus* (CMFS 19489-19490; CM 54299-54300, CMFS 19487-19488;

UCM 44923-44924).

15 km. E, *Triturus pygmaeus* (CMFS 19489-19490; CM 54299-54300, CMFS 19487-19488;

UCM 44923-44924).

10 km. E, *Triturus pygmaeus* (CMFS 19491; CM 54301) DOR.

1971, 12 January, Rota (N36.62899 W6.35430)-Chipiona (N36.70769 W6.41560) Road

2015 hrs -2115 hrs

*Pelodytes ibericus*  (CMFS 19493, 19494-19497; CM 54303-53606, Univ. of Minnesota) and *Pelobates cultripes* (CMFS 19498-19502; CM 54307-54311).

1971, 19 January, Rota (N36.62899 W6.35430)-Chipiona (N36.70769 W6.41560) Road

2300 hrs - 2400 hrs, raining

*Pleurodeles waltl* (CMFS 19503-19506; CM 54312-54315)

*Epidalea calamita* (CMFS 19507-19511; CM 54316[5])

*Triturus pygmaeus* ( CMFS 19512; CM 54317)

1971, 19 January, Rota (N36.62899 W6.35430)-Chipiona (N36.70769 W6.41560) Road -2-

*Pelodytes ibericus* (CMFS 19513 [9]; CM 54318[9] NOTE: 8 Cleared & Stained, several

missing)

*Pelobates cultripes* (CMFS 19515-19531[4]; CM 54319[19], CMFS 19514, Univ. of Minnesota).

1971, 20 January, Puerto Real, , from N-IV at ~N36.53761 W6.16818 to C-440 via A-408

2000 hrs - 2200 hrs, in rain.

*Hyla meridionalis* (CMFS 19532-19533; CM 54320-54321).

*Pelophylax perezi* (CMFS 19534-19536; CM 54322-54324).

*Pelodytes ibericus*(CMFS 19537; CM 54325).

*Triturus pygmaeus* (CMFS 19538-19540; CM 54326-54328).

*Pleurodeles waltl* (CMFS 19541-19548; CM 54329[8]).

*Epidalea calamita* (CMFS 19549-19550; CM 54330-54331).

*Pelobates cultripes* (CMFS 19551-19553; CM 54332-54334).

1971, 22 January, Puerto Real, from N-IV at ~N36.53761 W6.16818 to C-440 via A-408

1930 hrs -2200 hrs., Raining

*Pelobates cultripes* (CMFS 19554-19555; CM 54335-54336).

*Pleurodeles waltl* (CMFS 19556, 19558-19562; CM 54337-54342, CMFS 19557; Univ. of

Minnesota).

*Discoglossus g. jeanneae* (CMFS 19563; CM 54343).

*Triturus pygmaeus* (CMFS 19564-19570; CM 54344[7]).

*Hyla meridionalis* (CMFS 19571; CM 54345).

*Pelophylax perezi*(CMFS 19572; CM 54346).

*Pelodytes ibericus*(CMFS 19573-19577; CM 54347-54351).

1971, 23 January, Puerto Real, from N-IV at ~N36.53761 W6.16818 to C-440 via A-408

(2) clutches of *Pelodytes ibericus* eggs (CMFS 19581; CM 54355) taken under ambient 16.1°C and water 16.7°C in pond mentioned 7 January entry.

An adult *Pelodytes ibericus* (CMFS 19578; CM 54352) collected.

1971, 24 January, Puerto Real, between N36.53761 W6.16818 (33 M) and N36.524437 W5.984995 (98 M) on A-408. *Natrix maura* A.O.R. (CMFS 19579; CM 54353).

1971, 24 January, Rota (Benchmark) (N36.62498 W6.36864)

*Blanus cinereus* (CMFS 22850-22852; CM 55758-55760). Miguel Moya collection.

1971, 30 January, Puerto Real, from N-IV at ~N36.53761 W6.16818 to C-440 via A-408

*Pelobates cultripes* (CMFS 19580; CM 54354) AOR.

1971, 3 February, Base Naval de Rota, General (~N 36.627812 W6.331415)

*Macroprotodon brevis* (CMFS 22862; CM 55766), 20 cm beneath pile of decaying cartons. Miguel Moya collection.

1971, 5 February, Naval Base vicinity

W.R. Maxwell reports a DOR. *Rhinechis scalaris* seen near Naval Base.

1971, 7 February, La Algaida (N36.862136 W6.302683)

1505 hrs, 15.6°C .

1530 hrs, *Acanthodactylus erythrurus* juvenile seen sunning itself in a probably self-made

depression in sand.

1533 hrs, *Acanthodactylus erythrurus* (above specimen) resting again, lying above sand

level with entire body in sun’s rays (CMFS 19582; CM 54561).

1551 hrs, 14.4°C

1624 hrs, *Psammodromus algirus* seen under log (juvenile).

1632 hrs, 13.9°C END

1971, 20 February, Puerto de Santa María-Puerto Real- Vejer- Tarifa- Facinas- Algeciras- Los Barrios

1100 hrs -1800 hrs.

1971, 20 February, Puerto de Santa María (= Valdelagrana, N36.57945 W6.22406)

1132 hrs, 10.6°C; Pond low in H2O and no eggs or larvae seen in pond. A *Discoglossus g.*

*jeanneae*  seen in pond.

1971, 20 February, Facinas (N36.14768 W5.70281), CA-221

1235 hrs -1610 hrs, 17.8°C - 23.3°C, clear skies

5.1 mi. NE, *Podarcis vaucheri* captured (CMFS 19592-19602; CM 54563[11]).

5.8 mi. NE, Podarcis vaucheri

6.0 mi. NE, 2 *Podarcis vaucheri* seen, 1 *Podarcis vaucheri* captured (CMFS 19592-19602;

CM 54563[11] ).

8.05 mi. NE, 1411 hrs, 21.7°C, 2 *Podarcis vaucheri* seen, 1 *Podarcis vaucheri* shot (CMFS

19592- 19602; CM 54563[11]) .

8.2 mi. NE, 1417 hrs, 23.3°C, 3 *Podarcis vaucheri* seen, 1 *Podarcis vaucheri* shot (CMFS

19592- 19602; CM 54563[11] )

8.3 mi. NE, 1421 hrs, 18.9°C, 1 *Podarcis vaucheri* shot (CMFS 19592-19602; CM 54563[11] ),

1 Podarcis vaucheri seen.

8.5 mi. NE, 2 *Podarcis vaucheri* seen, 1 *Podarcis vaucheri* shot (CMFS 19592-19602; CM

54563[11] ) .

9.0 mi. NE, 1445 hrs, 20.6°C, 3 *Podarcis vaucheri* seen, 1 *Podarcis vaucheri* shot (CMFS

19592- 19602; CM 54563[11] )

9.6 mi. NE, 1 *Podarcis vaucheri* seen on rock in flooded area.

10.2 mi.NE, 1456 hrs, 21.1°C, *Podarcis vaucheri* shot (CMFS 19592-19602; CM 54563[11] );

appears to be in breeding condition with orange on chin, sides, and ventral aspect of tail.

13.9 mi. NE, 1600 hrs -1605 hrs, 20.6°C, 2 *Podarcis vaucheri* shot (CMFS 19592-19602; CM

54563[11] ) ,

5.1 mi. NE, *Tarentola mauritanica* seen

5.7 mi. NE, 1317 hrs, 17.8°C, *Tarentola mauritanica.*

5.8 mi. NE, 1325 hrs, 21.1°C, *Tarentola mauritanica* [sub-adult].

5.9 mi. NE, 1330 hrs, 21.7°C, *Tarentola mauritanica* [adult and juvenile].

6.0 mi. NE, 1346 hrs, 21.7°C, 6 *Tarentola mauritanica* seen, 4 *Tarentola mauritanica* captured

(CMFS 19583-19591; CM 54562[9]).

1971, 20 February, Facinas (N36.14768 W5.70281), CA-221 -2-

6.6 mi. NE, 1358 hrs, 20.0°C, 2 *Tarentola mauritanica* (CMFS 19583-19591; CM 54563[11])

and 2 seen.

7.9 mi. NE, 1407 hrs, 20.0°C, *Tarentola mauritanica.*

8.2 mi. NE, *Tarentola mauritanica* (CMFS 19583-19591; CM 54563[11]).

8.5 mi. NE, 1430 hrs, 21.1°C, 3 *Tarentola mauritanica* seen, 1 shot (CMFS 19583-19591; CM

54563[11]).

13.9 mi.NE, 1600 hrs-1605 hrs, 20.6°C, 1 *Tarentola mauritanica* seen.

14.1 mi.NE, 1610 hrs, 23.3°C, 6 *Tarentola mauritanica* seen, 1 shot (CMFS 19583-19591; CM

54563[11]).

6.0 mi. NE, 1346 hrs, 21.7°C, juv. *Psammodromus algirus* seen.

6.0 mi. NE, 1346 hrs, 21.7°C, *Pelophylax perezi* seen but escaped into stream.

10.9 mi. NE, 1504 hrs, 21.1°C, *Timon lepidus* seen; observed to be a medium-sized adult.

Habitat along the entire route consists of medium-high (< 880 m) rock-mountains in the distance but the road travels over a large and elevated plain through the area. The dirt road is lined with

elaborate rock retaining walls, bridges, and culverts in numerous areas. Some forested areas along the route.

1971, 20 February, Base Naval de Rota, General (~N 36.627812 W6.331415)

*Chalcides striatus* (CMFS 22853-22856; CM 55761-55764). Miguel Moya collection.

1971, 21 February, La Algaida (N36.862136 W6.302683)

1035 hrs -1300 hrs, 11.1°C- 15.0°C; Mosquitoes at pest proportions

1112 hrs, 12.2°C; 1210 hrs, 13.3°C

1218 hrs, (±13.4°C) 1 juvenile *Psammodromus algirus* (CMFS 19603; CM 54564 ) collected in area of *Pinus* needles. Sunning when captured.

1237 hrs, (±13.7°C) 1 juv. *Psammodromus algirus* seen in *Juncus acutus* area.

1238 hrs, (±13.7°C) 1 juv. *Psammodromus algirus* seen in *Corema album*  area.

1240 hrs, 1 juv. *Acanthodactylus erythrurus* buried shallowly in loose surface sand.

Ran to *Corema album*  when disturbed.

1971, 26 February, La Algaida (N36.862136 W6.302683)

1300 hrs -1615 hrs, 16.7°C-21.1°C

1300 hrs, 16.7°C

1309 hrs, (±17.0°C) hatchling *Psammodromus algirus* seen active in area of *Pinus pinea*

1327 hrs, juv. *Acanthodactylus erythrurus* seen active in area of *Corema album* .

1338 hrs, Juv. *Acanthodactylus erythrurus* seen active area of Corema. album.

1345 hrs,- Juv. *Acanthodactylus erythrurus* seen active in *Corema album*  and Juniperus

phoenicea.

1350 hrs,- Adult *Acanthodactylus erythrurus* seen active in Corema. album

1358 hrs, 18.3°C

1422 hrs, 2 *Acanthodactylus erythrurus* juveniles seen in area of Juncus acutus, Pinus pinea,

*Corema album* , and *Juniperus phoenicea*. 1 collected.

1430 hrs, Juvenile. *Acanthodactylus erythrurus* seen in *Corema album* .

1971, 26 February, La Algaida (N36.862136 W6.302683) -2-

1434 hrs, *Acanthodactylus erythrurus* adult seen basking in open sand vic. of *Corema album* .

1436 hrs, *Acanthodactylus erythrurus* juv. seen basking vic. *Corema album*

1440 hrs, *Acanthodactylus erythrurus* juvenile seen in *Corema album* .

1442 hrs, *Acanthodactylus erythrurus* sub-adult shot in *Corema album* .

1447 hrs, *Acanthodactylus erythrurus* juv. seen in *Juniperus phoenicea*.

1450 hrs, *Acanthodactylus erythrurus* juv. seen in *Corema album* .

1455 hrs, *Acanthodactylus erythrurus* juv. taken in *Corema album*

1458 hrs, *Acanthodactylus erythrurus* juv. shot in open sand vic. *Corema album*

1502- hrs, *Acanthodactylus erythrurus* juv. (sub-adult?) shot vic. of *Juniperus phoenicea*/

*Corema album* .

1505- hrs, *Acanthodactylus erythrurus* juv. seen in *Corema album*

1507 hrs, *Psammodromus algirus* seen in *Corema album* .

1512 hrs, *Acanthodactylus erythrurus* juv. seen in *Corema album* .

1517 hrs, *Acanthodactylus erythrurus* sub-adult seen in *Corema album*

1523- hrs, *Acanthodactylus erythrurus* juv. seen in *Juniperus phoenicea*.

1525 hrs, *Acanthodactylus erythrurus* juv. seen in *Juniperus phoenicea*

1532 hrs, 21.7°C

1558- hrs, *Acanthodactylus erythrurus* juv. seen in *Corema album*

1610- hrs, *Acanthodactylus erythrurus* juv. shot in *Corema album*  area

1615 hrs, 21.1°C and mosquitoes are present. (*Acanthodactylus erythrurus* CMFS 19604[6]; CM

54565[6]).

1971, 27 February, Facinas (N36.14768 W5.70281), CA-221

1030-1545 hrs in actual collecting time. (at Facinas at 1200 hrs, 17.2°C), clear and sunny.

*Podarcis vaucheri* specimens shot at following locations:

5.4 mi. NE, 1220 hrs, 17.8°C, 4 *Podarcis vaucheri* shot (CMFS 19613 [23]; CM 54569[23]).

6.7 mi. NE, 16.7°C, 2 *Podarcis vaucheri* shot on culvert (CMFS 19613 [23]; CM 54569[23]).

6.9 mi. NE, 1322, 18.9°C, 3 *Podarcis vaucheri* shot (CMFS 19613 [23]; CM 54569[23]).

7.0 mi. NE, 1327, 20.0°C, 2 *Podarcis vaucheri* shot (CMFS 19613 [23]; CM 54569[23]).

7.9 mi. NE, 1338, 18.9°C, 1 *Podarcis vaucheri* shot (CMFS 19613 [23]; CM 54569[23]).

8.0 mi. NE, 1342, 20.0°C, 1 *Podarcis vaucheri* shot. (CMFS 19613 [23]; CM 54569[23])

8.4 mi. NE, 1347, 16.7°C, 1 *Podarcis vaucheri* shot(CMFS 19613 [23]; CM 54569[23]) .

9.5 mi. NE, ~1355 hrs, 20.0°C, 1 *Podarcis vaucheri* shot on rock (CMFS 19613 [23]; CM

54569[23]).

9.7 mi. NE, 1403, 18.9°C, 1 *Podarcis vaucheri* shot (CMFS 19613 [23]; CM 54569[23]).

10.3 mi. NE, 1425, 22.2°C, 4 *Podarcis vaucheri* shot (CMFS 19613 [23]; CM 54569[23]) .

10.3 mi. NE, 1428, 22.2°C, 1 *Podarcis vaucheri* shot(CMFS 19613 [23]; CM 54569[23]) .

14.2 mi. NE, 1528, 22.2°C, 1 *Podarcis vaucheri* shot (CMFS 19613 [23]; CM 54569[23]).

while *Podarcis vaucheri* were also sighted at:

6.0 mi. NE,1228, 17.8°C, 1 juv. *Podarcis vaucheri.*

6.2 mi. NE, 17.8°C, 1 *Podarcis vaucheri.*

6.3 mi. NE,1235-1255, 18.9°C, 1 *Podarcis vaucheri.*

6.9 mi. NE,1322, 18.9°C, 5 *Podarcis vaucheri.*

1971, 27 February, Facinas (N36.14768 W5.70281), CA-221 -2-

7.0 mi. NE,1327, 20.0°C, 1 *Podarcis vaucheri.*

8.0 mi. NE,1342, 20.0°C, 2 *Podarcis vaucheri.*

9.7 mi. NE,1403, 18.9°C, 3 *Podarcis vaucheri.*

10.3 mi. NE,1425, 22.2°C, 2 *Podarcis vaucheri.*

14.2 mi. NE, 1528, 22.2°C, 2 *Podarcis vaucheri.*

*Tarentola mauritanica* were captured at:

6.0 mi. NE,1228, 17.8°C, *Tarentola mauritanica* (CMFS 19606-19611; CM 54567[6])

6.3 mi. NE, 1235-1255, 3 *Tarentola mauritanica* (CMFS 19606-19611; CM 54567[6])

while *Tarentola mauritanica* were observed at:

6.1 mi. NE, 18.9°C, 2 *Tarentola mauritanica* .

6.2 mi. NE, 17.8°C, 1 *Tarentola mauritanica*.

6.3 mi. NE, 1235-1255, 18.9°C, 5 *Tarentola mauritanica.*

13.6 mi. NE, 1530, 20.0°C, 1 *Tarentola mauritanica.*

14.2 mi. NE, 1528, 22.2°C, 2 *Tarentola mauritanica.*

14.4 mi. N.E.1538, 22.2°C, 2 *Tarentola mauritanica*.

9.4 mi. NE ( N36.16133 W5.58104, 184 m), 1355 hrs, 17.8°C, the first *Psammodromus algirus* (CMFS 19605; CM 54566) of the season was taken . A pair was observed but only one specimen was taken.

12 mi. NE (N36.19161 W5.56465, 139 M), ±1400 hrs, adult *Natrix maura* (CMFS 19612; CM 54568). It was concealed in *Halimium halimiifolium* until scared from hiding by my footsteps.

1971, 6 March, Puerto de Santa María- Jerez de la Frontera- El Bosque- Ubrique- Alcaláde los Gazules- Benalup de Sidonia- Vejer- Rota.

1045 hrs, 12.2°C and cloudy.

1971, 6 March, Ubrique (benchmark at N36.67764 W5.44759)

3.6 mi. on dirt road to W. brought me to *Pantano* (= *Embalse* in 2013) *de los Hurones* which is apparently either a man-made lake or a washed out area in the spring. Nothing was seen but the temperature could account for specimen absence.

11.2 mi. S. of Ubrique (on road to Galis) there is a road (CA-8104) through *Montes Propios de Jerez* off to the W. This track (suitable in dry weather for a VW-sized car) travels for 15.6 miles through mountains high for Cádiz Province. In some areas the rock ledges give rise to pine forest (Both *Pinus pinea* and *Pinus* *pinaster* depending on altitude) and the area is a possibility for both *Algyroides* and *Vipera* although prospects look slight for the moment.

1971, 13 March, Rota- Puerto Santa María- Puerto Real

1300-1500 hrs, 15.6°C - 15.0°C (B.P. 29.76 →, 77% Rel. Hum., 15.6°C at 1405 hrs)

Overcast, cumulus clouds, rain yesterday and this forenoon, moderate wind now, sunny.

1971, 13 March Puerto Real, , from N-IV at ~N36.53761 W6.16818 to C-440 via A-408

1350 hrs, overcast and cool (15.6°C), surface water in valley areas low, run-off percentage must have been high. At 10.7 mi. E. the pond from which *Pelodytes* eggs taken earlier is now dry.

2.3 mi. E. a young *Malpolon monspessulanus* (~20’’) seen DOR in flat area w/ flooded pond <9

m distant.

1971, 13 March Puerto de Santa María (= Valdelagrana, N36.57945 W6.22406)

1441 hrs, 17.8°C. 1 juvenile *Timon lepidus* (CFS 19614) captured under small stone. Pond

which normally has *Pelobates* is now dry. As a note of conjecture: the 1st set of eggs taken this year probably give way to 2nd set, breeding season probably has not yet begun.

1971, 13 March, Base Naval de Rota, Vicinity of Harbor (N36.624244 W6.334138)

*Natrix maura* (CMFS 19615; CM 54571) collected in the port area.

1971, 14 March, Puerto de Santa María (= Valdelagrana, N36.57945 W6.22406)

*Timon lepidus* ♀ (CMFS 19614; CM 54570).

1971, 18 March, Puerto de Santa María- Puerto Real- Chiclana- Vejer- Cabo Trafalgar and return

1837 hrs - 2145 hrs, 14.4°C- 12.2°C.

1971, 18 March, Vejer de la Frontera, (N36.25278 W5.98158), A-2230

8.3 mi. S, nothing seen on road (1958 hrs, 12.8°C, clear and windy).

1971, 18 March, Vejer- Puerto Real

Some frog activity noted at 12.2°C (Hyla). Road wet with surface moisture (= dampness).

1971, 18 March, Puerto Real, from N-IV at ~N36.53761 W6.16818 to C-440 via A-408

8.7 mi. E, 2128 hrs, 12.8°C, road is dry but *Hyla* *meridionalis* heard calling.

1971, 19 March, Rota-Puerto de Santa María-Puerto Real- Chiclana- Algeciras- Los Barrios- Casas del Castaño- Alcala de los Gazules- Puerto Real.

1830 hrs - 2400 hrs, 12.2°C - 10.0°C. Raining all day but clearing to west.

1971, 19 March, Vejer de la Frontera (N36.26089 W5.96476), N-340

1943 hrs, 12.2°C, rained heavily here as road is wet, droplets of occasional rain.

19.9 mi. SE, 2007 hrs, 10.0°C, 1 juvenile *Bufo spinosus* (CMFS 19616; CM 54572) AOR.

1971, 19 March, Tarifa (N36.02652 W5.60407), N-340

2020 hrs, a *Pleurodeles waltl* seen on W. edge of town.

4.0 mi. N, 2028 hrs, one *Hyla meridionalis* seen AOR.

1971, 19 March, Algeciras N&W to Los Barrios (via CA-9209) from N-340

(N36.14781 W5.45445)

3.7 mi. N & W, 2044 hrs, 10.0°C, a *Hyla meridionalis* (CMFS 19621-19624; CM 54577-54579,

CM 54649).

3.7 mi. N & W, 2044 hrs, 10.0°C, several *Hyla meridionalis* heard in chorus.

4.3 mi. N & W, *Hyla meridionalis* (CMFS 19621-19624; ; CM 54577-54579, CM 54649). AOR.

4.7 mi. N & W, 2103 hrs, 11.1°C, *Pleurodeles waltl* (CMFS 19627; CM 54583) adult.

4.9 mi. N & W, 2104 hrs, 11.1°C, light rain, one *Hyla meridionalis* (CMFS 19621-19624;CM

54577-54579, CM 54649) AOR.

1971, 19 March, Los Barrios (N36.18209 W5.48920), C-440 (1969-1972 route)

2.3 mi. N & W, 2116 hrs, 10.0°C, *Discoglossus jeanneae* adult (CMFS 19625-19626; CM

54581-54582 PARATYPES) AOR.

7.1 mi. N and W, 2135 hrs, 7.2°C, Raining, adult *Discoglossus jeanneae* (CMFS 19625-19626;

CM 54581-54582 PARATYPES) AOR.

7.9 mi. NW, 2140 hrs, 7.2°C, *Pelophylax perezi* (CMFS 19629; CM 54585) large adult AOR.

8.1 mi. NW, 2141 hrs, 7.2°C, *Bufo spinosus* (CMFS 19630-19632; CM 54586-54588) AOR

(injured by car).

9.9 mi NW, 2150 hrs, 10.0°C, adult *Bufo spinosus* (CMFS 19630-19632; CM 54586-54588)

AOR.

10.7 mi. NW, 10.0°C, *Hyla meridionalis* large chorus.

12.4 mi. NW, 9.4°C, *Bufo spinosus* (CMFS 19630-19632; CM 54586-54588) AOR.

1971, 19 March, Casas de Castaño (N36.30792 W5.59662), C-440

2.2 mi. NW, 2212 hrs, 7.2°C, 1 *Hyla meridionalis* (CMFS 19621-19624; CM 54577-54580)

AOR.

7.3 mi. NW, rain has stopped. *Hyla meridionalis* heard occasionally.

9.4 mi. NW, 2235 hrs, 8.3°C, *Pelobates cultripes* (CMFS 19628; CM 54584) AOR.

9.5 mi. NW, 2236 hrs, 7.8°C, *Pelodytes ibericus* AOR.

1971, 19 March, Alcalá de los Gazules- perpendicular to Medina Sidonia

2250 hrs - 2322 hrs, 7.2°C, little activity of note.

1971, 21 March, La Algaida (N36.862136 W6.302683)

1430 hrs, 16.7°C

1440 hrs, *Acanthodactylus erythrurus* adult shot, juvenile and 2 adults seen.

1444 hrs, 2 *Acanthodactylus erythrurus* juv. seen in *Corema album* .

1445 hrs, *Psammodromus algirus* adult shot in *Corema album* .

1450 hrs, 1 *Acanthodactylus erythrurus* juvenile shot; 1 *Psammodromus algirus* adult seen in

*Corema album* .

1455 hrs, *Acanthodactylus erythrurus* seen in *Corema album* .

1457 hrs, *Acanthodactylus erythrurus* adult and 1 juvenile seen in *Corema album* .

1459 hrs, *Psammodromus algirus* adult and 1 juvenile *Acanthodactylus erythrurus* seen in

*Corema album* .

1971, 21 March, La Algaida (N36.862136 W6.302683) -2-

1503 hrs, *Acanthodactylus erythrurus* juvenile in *Corema album* .

1505 hrs, *Acanthodactylus erythrurus* adult shot in *Juniperus phoenicea*.

1507 hrs, *Acanthodactylus erythrurus* subadult shot in *Corema album* .

1508 hrs, *Acanthodactylus erythrurus* juvenile shot in *Corema album* .

1509 hrs, *Acanthodactylus erythrurus* adult seen in *Juniperus phoenicea*.

1512 hrs, *Acanthodactylus erythrurus* adult shot in *Corema album* .

1515 hrs, *Acanthodactylus erythrurus* subadult seen in *Corema album* .

1517 hrs, *Acanthodactylus erythrurus* juv. shot in *Corema album* .

1520 hrs, *Acanthodactylus erythrurus* adult seen in *Corema album* .

1523 hrs, *Psammodromus algirus* seen in *Juniperus phoenicea*; *Acanthodactylus erythrurus*

seen in *Juniperus phoenicea* and *Corema album*  complex.

1525 hrs, *Acanthodactylus erythrurus* adult shot in *Corema album* while sunning in open

spot, another took refuge in *Juniperus phoenicea*.

1530 hrs, *Acanthodactylus erythrurus* juv. shot in *Corema album* .

1531 hrs, *Acanthodactylus erythrurus* juv. observed in *Corema album* .

1535 hrs, 2 *Psammodromus algirus* seen in *Juniperus phoenicea*.

1541 hrs, 15.6°C

1545 hrs, (± 15.5°C) 2 juv. *Acanthodactylus erythrurus* seen with 1 juvenile *Psammodromus algirus*.

1552 hrs, 1 *Acanthodactylus erythrurus* subadult shot in *Juniperus phoenicea*.

1559 hrs, 1 *Psammodromus algirus* shot in *Corema album* .

1602 hrs, *Acanthodactylus erythrurus* seen in *Corema album* .

1605 hrs, 2 juv. *Acanthodactylus erythrurus* shot in *Corema album* .

1611 hrs, *Psammodromus algirus* seen in *Juniperus phoenicea*.

1615 hrs, *Acanthodactylus erythrurus* juv. seen in *Corema album* .

1617 hrs, *Acanthodactylus erythrurus* adult shot in *Corema album* .

1618 hrs, *Acanthodactylus erythrurus* juv. shot in *Corema album* .

1622 hrs, Juv. *Acanthodactylus erythrurus* shot while sunning in open sand.

1624 hrs, Juv. *Acanthodactylus erythrurus* seen in *Corema album* .

1626 hrs, subadult *Acanthodactylus erythrurus* shot in vic. of *Corema album* .

1632 hrs, *Acanthodactylus erythrurus* juv. seen in *Corema album* .

1634 hrs, Juv. *Acanthodactylus erythrurus* shot in *Corema album* .

1638 hrs, *Acanthodactylus erythrurus* seen in *Corema album* .

1640 hrs, *Acanthodactylus erythrurus* adult seen in *Juniperus phoenicea*.

1648 hrs, *Acanthodactylus erythrurus* subadult shot in *Juniperus phoenicea*.

1700 hrs, *Acanthodactylus erythrurus* adult shot in *Corema album* .

1705 hrs, Juv. *Acanthodactylus erythrurus* shot and 1 seen in *Halimium halimiifolium.*

1710 hrs, *Psammodromus algirus* adult shot in *Pinus* needles.

1710 hrs, 14.4°C. END.

*Psammodromus algirus* (CMFS 19633-19635;CM 54589-54591)

*Acanthodactylus erythrurus* (CMFS 19636-19645[10];CM 54592[19]).

1971, 26 March, Puerto de Santa María- Puerto Real

2030 hrs -2154 hrs, 13.3°C - 11.7°C, clear (High = 21.1°C for today)

*Hyla meridionalis* heard calling at Puerto de Santa María, Nothing else of note

1971, 27 March, La Algaida (N36.862136 W6.302683)

0915 hrs, 14.4°C, windy

0948 hrs, Juv. *Acanthodactylus erythrurus* seen sunning *Corema album* .

1009 hrs, Adult *Psammodromus algirus* seen in *Juniperus phoenicea*.

1035hrs, 16.1°C

1044 hrs, Adult *Acanthodactylus erythrurus* seen in *Halimium halimiifolium*.

1052 hrs, *Psammodromus algirus* seen in *Juncus acutus*/ *Juniperus phoenicea*.

1057 hrs, adult *Psammodromus algirus* (same as 1005 hrs sighting) seen in *Juniperus*

*phoenicea*.

1100 hrs, Juv. *Acanthodactylus erythrurus* shot in open sand vic. *Halimium*

*halimiifolium*/*Corema album* .

1107 hrs, Juv. *Acanthodactylus erythrurus* seen on sand adjacent to *Corema album* .

1110 hrs, Juv. *Acanthodactylus erythrurus* shot in open sand.

1112 hrs, Adult *Acanthodactylus erythrurus* seen in *Corema album* .

1119 hrs, Adult *Acanthodactylus erythrurus* seen in *Corema album* .

1121 hrs, Juv. *Acanthodactylus erythrurus* seen near *Juniperus phoenicea*.

1127 hrs, Juv. *Acanthodactylus erythrurus* seen in *Juniperus phoenicea*.

1129 hrs, Juv. *Acanthodactylus erythrurus* seen in *Corema album*.

1135 hrs, Adult *Acanthodactylus erythrurus* shot in vic. of *Corema album. .* Rear portion of legs

orange, tail’s orange still light.

1142 hrs, Juv. *Acanthodactylus erythrurus* seen in *Halimium halimiifolium*.

1148 hrs, Juv. *Acanthodactylus erythrurus* seen in *Corema album* .

1201 hrs, Juv. *Acanthodactylus erythrurus* seen sunning.

1203 hrs, Juv. *Acanthodactylus erythrurus* seen in H. halimiifolium.

1210 hrs, Juv. *Acanthodactylus erythrurus* seen in *Corema album* .

1213 hrs, Juv. *Acanthodactylus erythrurus* seen in *Corema album* .

1219 hrs, Juv. *Acanthodactylus erythrurus* seen in field of *Juncus acutus*, retreated to *Juniperus*

*phoenicea*.

1221 hrs, *Acanthodactylus erythrurus* adult seen in *Corema album*  / open sand.

1226 hrs, *Acanthodactylus erythrurus* adult seen in *Corema album* .

1230 hrs, 2 juv. *Acanthodactylus erythrurus* seen in *Corema album*  / *Juniperus phoenicea*.

1240 hrs, 19.4°C

1258 hrs, *Acanthodactylus erythrurus* adult seen in *Corema album* .

1307 hrs, Juv. *Acanthodactylus erythrurus* seen in sand depression.

1308 hrs, Juv. *Acanthodactylus erythrurus* in open area near *Halimium halimiifolium*.

1314 hrs, *Acanthodactylus erythrurus* adult seen in *Corema album* .

1315 hrs, Adult *Acanthodactylus erythrurus* seen in *Corema album*

132 hrs, 4 Adult *Acanthodactylus erythrurus* shot in *Corema album* , a juv. *Acanthodactylus*

*erythrurus* also seen.

1325 hrs, Juv. *Acanthodactylus erythrurus* seen in open sand.

1326 hrs, *Psammodromus algirus* adult seen in *Corema album* .

1337 hrs, Subadult *Acanthodactylus erythrurus* seen in *Corema album.*

1340 hrs, Juv. *Acanthodactylus erythrurus* shot in *Corema album.*.

1342 hrs, Adult *Acanthodactylus erythrurus* shot in *Corema album.*

1350 hrs, Adult *Acanthodactylus erythrurus* seen in *Corema album.*

1971, 27 March, La Algaida (N36.862136 W6.302683) -2-

1354 hrs, Adult *Acanthodactylus erythrurus* hot in *Corema album.*

1356 hrs, Juv. *Acanthodactylus erythrurus* seen in *Corema album.*

1358 hrs, Juv. *Acanthodactylus erythrurus* seen in *Juniperus phoenicea*.

1401 hrs, *Acanthodactylus erythrurus* adult seen in *Corema album*.

1404 hrs, Juv. *Acanthodactylus erythrurus* seen in *Corema album*.

1405 hrs, Juv. *Acanthodactylus erythrurus* seen in *Corema album*.

1406 hrs, *Acanthodactylus erythrurus* adult seen in *Corema album*.

1407 hrs, *Acanthodactylus erythrurus* adult shot in *Corema album*, one other seen.

1413 hrs, *Acanthodactylus erythrurus* juv. seen in *Corema album*.

1419 hrs, *Acanthodactylus erythrurus* juv. seen in *Corema album*.

1421 hrs, *Acanthodactylus erythrurus* juv. seen in *Halimium halimiifolium*.

1424 hrs, *Acanthodactylus erythrurus* adult seen in *Juniperus phoenicea*.

1430 hrs, 22.2°C

1500 hrs -1545 hrs, 2 adult *Acanthodactylus erythrurus* shot and 1 *Psammodromus algirus* shot (Not in study area).

*Acanthodactylus erythrurus* (CMFS 19647-19655[4]; CM 54594[12])

*Psammodromus algirus* (CMFS 19646; CM 54593).

1971, 29 March, Rota-Algeciras (to meet Ludwig Trutnau [no show])-Los Barrios-Facinas

0830 hrs-1631 hrs, 15.6°C - 17.8°C.

1971, 29 March, Los Barrios (N36.18209 W5.48920), C-440 (1969-1972)

4.1 mi. WNW, 1320 hrs, large adult *Mauremys leprosa* shell.

4.1 mi. WNW, 1320 hrs, 15.6°C, several *Pelophylax perezi* heard calling.

1971, 29 March, Facinas (N36.14768 W5.70281), CA-221

ES 300 (Hymenoptera, Formicoidea, CM accession 24892)

14.3 mi. NE, 3 *Tarentola mauritanica* on culvert.

14.1 mi. NE, 1331 hrs, 16.1°C, *Tarentola mauritanica* (CMFS 19657-19659; CM 54596-54598)

shot. *Ulex* are blooming bright yellow.

13.4 mi. NE, 17.8°C, adult *Timon lepidus* in crevice in area of brick wall.

9.9 mi. NE, 1315 hrs, 16.1°C, *Podarcis vaucheri*

9.0 mi. NE, 1407 hrs, 17.8°C, *Podarcis vaucheri* (CMFS 19660-19664;CM 54599-54603) shot

off culvert.

8.5 mi. NE, 1418 hrs, 18.9°C, 2 *Podarcis vaucheri* (CMFS 19660-19664;CM 54599-54603)

shot, 1 seen from bridge over small stream.

8.4 mi. NE, 20.0°C, 2 *Tarentola mauritanica* (CMFS 19657-19659; CM 54596-54598) on

concrete, 1 shot.

8.1 mi. NE, 1428 hrs, 20.6°C, *Podarcis vaucheri* on stone effacement.

7.0 mi. NE, 1440 hrs, 21.1°C, *Timon lepidus* (CMFS 19656; CM 54595) on stone bridge.

7.0 mi. NE, 1440 hrs, 21.1°C, *Podarcis vaucheri* (CMFS 19660-19664;CM 54599-54603)

captured, 2 *Podarcis vaucheri* on stone bridge.

6.3 mi. NE, 1448 hrs, 21.1°C, juvenile *Pelophylax perezi* in pond.

5.5 mi. NE, 1445 hrs -1510 hrs, 22.2°C, 2 *Tarentola mauritanica*, 1 captured on bridge (CMFS

19657- 19659; CM 54596-54598).

1971, ? April, Puerto de Santa María (= Valdelagrana, N36.57945 W6.22406)

ES 306, ES 307 (CM, unidentified) W. R. Maxwell donation.

1971, 1 April, Base Naval de Rota, Vicinity of Harbor (N36.624244 W6.334138)

ES 308[3], *Discoglossus g. jeanneae* (CM 94661[3]) developmental series.

1971, 02 April, Rota-Vejer de la Frontera-Benalup de Sidonia-Alcalá de los Gazules-Galis (= Galix)-3 April 1971: 1845 hrs-2400 hrs, ± 12.2°C.

Rain all day, runoff in Rota considerable as of noon. 13.7 mm of rain had fallen.

1971, 02 April, Vejer de la Frontera (N36.26089 W5.96476), C-343 (A-396) (raining)

9.1 mi. N, 2010 hrs, 10.0°C, *Hyla meridionalis* (CMFS 19672-19678; CM 54611[7], AF 747-

752; USNM 193115, 336634-336638) AOR.

9.2 mi. N, 2011 hrs, 10.0°C, juvenile *Hyla meridionalis* (CMFS 19672-19678; CM 54611[7], AF

747-752; USNM 193115, 336634-336638) AOR.

1971, 02 April, Benalup de Sidonia, A-2228 to C-440 intersection (N36.44740 W5.74818)

0.2 mi. N, 2023 hrs, 10.0°C, adult *Hyla meridionalis* (CMFS 19672-19678; CM 54611[7], AF

747-752; USNM 193115, 336634-336638) AOR

0.6 mi. N, 2028 hrs, 10.0°C, *Hyla meridionalis* (CMFS 19672-19678; CM 54611[7], AF 747-

752; USNM 193115, 336634-336638) AOR.

1.0 mi. N, 2030 hrs, 10.0°C, 2 *Hyla meridionalis* (CMFS 19672-19678; CM 54611[7], AF 747-

752;USNM 193115, 336634-336638) AOR.

1.0 mi. N, 2030 hrs, 10.0°C, 1 *Discoglossus g. jeanneae* (CMFS 19669-19671;CM 54608-

54610) AOR.

1.3 mi. N, 2034 hrs, 11.1°C, *Hyla meridionalis* (CMFS 19672-19678; CM 54611[7], AF 747-

752; USNM 193115, 336634-336638) AOR.

1.7 mi. N, 2036 hrs, 12.2°C, *Hyla meridionalis* (CMFS 19672-19678; CM 54611[7], AF 747-752; USNM 193115, 336634-336638)

2.5 mi. N, 2041 hrs, 10.0°C, *Pelodytes ibericus* (CMFS 19667-19668; CM 54606-54607) AOR.

2.8 mi. N, 2045 hrs, 10.0°C, *Epidalea calamita* (skeletonized). CM 54758 ♂ & 54759 ♀.

2.8 mi. N, 2045 hrs, 10.0°C, *Hyla meridionalis* DOR.

3.0 mi. N, 2046 hrs, 10.0°C, 1 *Hyla meridionalis* (CMFS 19672-19678;CM 54611[7], AF 747-

752; USNM 193115, 336634-336638) AOR.

3.0 mi. N, 2046 hrs, 10.0°C, 2 *Epidalea calamita* (CMFS 19679-19682;CM 54612-54615),

AOR.

3.4 mi. N, 2050 hrs, 10.6°C, *Triturus pygmaeus* (CMFS 19666; CM 56405)

3.4 mi. N, 2050 hrs, 10.6°C, *Epidalea calamita* (CMFS 19679-19682;CM 54612-54615)AOR.

4.1 mi. N, 2056 hrs, 8.9°C, adult *Triturus pygmaeus* DOR.

4.4 mi. N, 2058 hrs, 8.9°C, adult *Hyla meridionalis* (CMFS 19672-19678;CM 54611[7], AF

747-752; USNM 193115, 336634-336638) AOR.

4.7 mi. N, 2100 hrs, 8.9°C, *Epidalea calamita* (CMFS 19679-19682;CM 54612-54615) AOR.

5.5 mi. N, 2105 hrs, 8.9°C, *Hyla meridionalis* DOR.

7.8 mi. N, 2114 hrs, 8.9°C, *Discoglossus g. jeanneae* (CMFS 19669-19671;CM 54608-54610)

AOR.

1971, 02 April, Benalup de Sidonia, A-2228 to C-440 intersection (N36.44740 W5.74818) -2-

8.5 mi. N, 2119 hrs, 10.0°C, *Hyla meridionalis* (CMFS 19672-19678;CM 54611[7], AF 747-

752; USNM 193115, 336634-336638) AOR.

8.8 mi. N, 2122 hrs, 13.3°C, *Discoglossus g. jeanneae* (CMFS 19669-19671;CM 54608-54610). 9.3 mi. N, 2124 hrs, 10.0°C, *Pelodytes ibericus* (19667-19668;CM 54606-54607) AOR

1971, 02 April, Alcalá de los Gazules, NE to Galis (N36.46766 W5.71916), CA-511 (A-2304)

7.0 mi. NE, 2210 hrs, 7.8°C, *Epidalea calamita* (CMFS 19684-19685; CM 54617-54618) AOR.

7.9 mi. NE, 2217 hrs, 7.8°C, *Epidalea calamita* (CMFS 19684-19685; CM 54617-54618) AOR.

8.1 mi. NE, 2220 hrs, 7.8°C, *Hyla meridionalis* (CMFS 19688-19691; CM 54621-54624) AOR.

8.5 mi. NE, 2222 hrs, 8.9°C, *Hyla meridionalis* (CMFS 19688-19691; CM 54621-54624) AOR.

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1971, 02 April, Galis (N36.55958 W5.60101), C-3331

2247 hrs, 8.3°C, *Hyla meridionalis* (CMFS 19688-19691; CM 54621-54624)AOR.

2.6 mi. NE, 2300 hrs, 6.7°C, *Hyla meridionalis* AOR.

2.9 mi. NE, 2304 hrs, 7.2°C, *Discoglossus g. jeanneae* (CMFS 19687; CM 54620) AOR.

8.8 mi. NE, 2327 hrs, 5.0°C, *Discoglossus g. jeanneae* AOR.

10.2 mi. NE, 2334 hrs, 5.0°C, *Salamandra longirostris* (CMFS 19683; CM 54616) AOR.

15.6 mi. NE, 2358 hrs, 6.7°C, *Pelophylax perezi* (CMFS 19686; CM 54619) AOR.

1971, 03 April, Ubrique-El Bosque-Arcos: 0003 hrs-0142 hrs.

1971, 03 April, Ubrique (N36.67253 W5.44669) C-333, (A-373)

1.6 mi. S, 6.7°C, *Bufo spinosus* (CMFS 19665; CM 54604) AOR.

2.6 mi. N, 0020 hrs, 6.1°C, large *Discoglossus g. jeanneae* (CMFS 19695-19697; CM 54628-

54630), photographed in life. Raining.

1971, 03 April, El Bosque (N36.75819 W5.50904), C-344

1.7 mi. W, 0053 hrs, 6.7°C, *Discoglossus g. jeanneae* (CMFS 19695-19697; CM 54628-54630)

AOR.

2.8 mi. W, 0057 hrs, 7.2°C, adult *Pelophylax perezi* (CMFS 19694; CM 54627) AOR.

3.2 mi. W, 0059 hrs, *Discoglossus g. jeanneae* (CMFS 19695-19697; CM 54628-54630) AOR.

4.2 mi. W, 0104 hrs, 7.2°C, *Discoglossus g. jeanneae* (CMFS 19695-19697; CM 54628-54630)

AOR.

4.4 mi. W, 0105 hrs, 7.2°C, wounded *Discoglossus g. jeanneae* ♀ (CMFS 19695-19697; CM

54628- 54630) AOR.

8.7 mi. W, 0122 hrs, 6.1°C, *Discoglossus g. jeanneae* (CMFS 19695-19697; CM 54628-54630)

AOR.

13.9 mi. W, 0135 hrs, *Epidalea calamita* (CMFS 19692-19693; CM 54625-54626) AOR in

*Quercus suber* forested area which seems to have many *Epidalea calamita* within.

1971, 03 April, Jerez de la Frontera-Arcos de la Frontera-El Bosque-Ubrique-Grazalema-Algodonales-Bornos-Puerto Real-Rota: 2000 hrs-0132 hrs, ±10.0°C (late entries under 4 April 1971).

1971, 03 April, Jerez de la Frontera, (N36.68617 W6.09886), CA-502

7.4 mi. E, 2000 hrs, 10.0°C, *Hyla meridionalis* AOR.

1971, 03 April, Arcos de la Frontera (N36.76116 W5.80842), C-344 (A-372)

1.8 mi. E, 2041 hrs, 11.1°C, *Pelophylax perezi* (CMFS 19699; CM 54632) AOR.

5.2 mi. E, Discoglossus g. jeanneae DOR.

5.7 mi. E, 2050 hrs, 7.2°C, 2 *Epidalea calamita* (CMFS 19701-19705; CM 54634[5]) AOR.

6.6 mi. NE, 2100 hrs, 10.0°C, juvenile *Epidalea calamita* (CMFS 19701-19705; CM 54634[5])

AOR.

7.6 mi. E, 2102 hrs, *Epidalea calamita* DOR.

7.9 mi. E, Epidalea calamita DOR.

11.9 mi. N + E, 2114 hrs, 10.0°C, *Epidalea calamita* (CMFS 19701-19705; CM 54634[5]) AOR.

15.9 mi. E, 2128 hrs, 7.8°C, *Bufo spinosus* (CMFS 19698; CM 54631) AOR.

17.3 mi. E on C-344, 2134 hrs, *Epidalea calamita* DOR.

17.4 mi. E on C-344, 2135 hrs, 8.9°C, *Epidalea calamita* (CMFS 19701-19705; CM 54634[5])

AOR.

18.2 mi. E on C-344, 2137 hrs, 8.9°C, juvenile *Discoglossus g. jeanneae* (CMFS 19700; CM

54633) AOR.

1971, 03 April, El Bosque (N36.75725 W5.51359), CA-524

4.3 mi. S, 2204 hrs, 8.9°C, raining, *Discoglossus g. jeanneae* DOR.

5.0 mi. S, 2207 hrs, 6.7°C, raining, *Pelophylax perezi* DOR.

5.8 mi. S, 2211 hrs, 6.7°C, raining, *Discoglossus g. jeanneae* AOR.

1971, 03 April, Benaocaz (N36.70016 W5.42317)

2230 hrs, 4.4°C, *Bufo spinosus* (CMFS 19706; CM 54635) AOR.

1971, 03 April, Villaluenga del Rosario (N36.69571 W5.38678), C-3331

4.9 mi. WNW, 2300 hrs, 4.4°C, *Epidalea calamita* (CMFS 19707; CM 54636) AOR.

1971, 03 April, Grazalema (N36.76150 W5.38206), (CA-9104 )

2310 hrs, rain. 2.4 mi. N, 2318 hrs, 1.7°C, SNOW!!

1971, 04 April, Algodonales-Villamartín-Bornos: 0017 hrs- 0132 hrs.

1971, 04 April, Algodonales (N36.87596 W5.40170), N-342 (A-384)

4.0 mi. W, 0017 hrs, 7.2°C, heavy rain, *Epidalea calamita* (CMFS 19708-19710; CM 54637-54639, AF 753-755; USNM 193116, USNM 332855-332856) AOR.

8.9 mi. W, 0030 hrs, 4.4°C, *Epidalea calamita* (CMFS 19708-19710; CM 54637-54639, AF

753-755; USNM 193116, USNM 332855-332856) AOR.

10.2 mi. W, 0038 hrs, 5.6°C, small *Epidalea calamita* (CMFS 19708-19710; CM 54637-54639,

AF 753-755; USNM 193116, USNM 332855-332856) AOR.

10.3 mi. W, 0039 hrs, 6.1°C, *Epidalea calamita* (CMFS 19708-19710; CM 54637-54639, AF

753-755; USNM 193116, USNM 332855-332856) AOR.

1971, 04 April, Algodonales (N36.87596 W5.40170), N-342 (A-384) -2-

11.1 mi. W, 0042 hrs, 6.1°C, *Epidalea calamita* (CMFS 19708-19710; CM 54637-54639, AF

753-755; USNM 193116, USNM 332855-332856) AOR.

13.5 mi. W, 0050 hrs, 5.6°C, *Epidalea calamita* (CMFS 19708-19710; CM 54637-54639, AF

753-755; USNM 193116, USNM 332855-332856) AOR.

1971, 04 April, Villamartín (N36.85870 W5.63933), N-342 (A-384)

2.5 mi. W, 0103 hrs, 5.6°C, adult *Pleurodeles waltl*  (CMFS 19711; CM 54640) AOR.

1971, 04 April, Puerto Real, from N-IV at ~N36.53761 W6.16818 to C-440 via A-408

(with W. R. Maxwell).

*Triturus pygmaeus* (CMFS 19712-19716; CM 54641[5])

*Pelobates cultripes* (CMFS 19717; CM 54642)

*Pelodytes ibericus*(CMFS 19718; CM 54643)

*Pleurodeles waltl*  (CMFS 19719; CM 54644)

*Hyla meridionalis* (CMFS 19720-19723; CM 54645-54648), all AOR.

1971, 06 April, Vejer de la Frontera-Benalup de Sidonia-Alcalá de los Gazules-Casas del Castaño-Los Barrios-Algeciras-Tarifa: 1840 hrs-2400 hrs.

1971, 06 April, Benalup de Sidonia, (N36.44740 W5.74818) to C-440 intersection (A-2228).

0.4 mi. N, 2007 hrs, 12.8°C, rain on relatively flat marsh-land, *Hyla meridionalis* (CMFS 19726;

CM 54651) AOR.

1.5 mi. N, *Hyla* *meridionalis* seen.

2.8 mi. N, 2017 hrs, 2 *Epidalea calamita* (CMFS 19727-19729; CM 54652-54654) AOR.

2.9 mi. N, 2018 hrs, *Epidalea calamita* AOR.

3.0 mi. N, 2019 hrs, 10.0°C, *Epidalea calamita* ; CM 54652-546540) AOR.

5.7 mi. N, 2028 hrs, adult *Pelobates cultripes* AOR.

7.6 mi. N, 2034 hrs, 11.1°C, rain, *Pelophylax perezi* (CMFS 19725; CMFS 54650) AOR.

1971, 06 April, Alcalá de los Gazules (N36.43994 W5.71962), C-440 SE

4.7 mi. ESE, 2104 hrs, 11.7°C, *Pleurodeles waltl*  (CMFS 19731; CM 54656) AOR.

5.8 mi. ESE, 2107 hrs, 12.8°C, *Pelophylax perezi* (CMFS 19734-19735; CM 54659-54660)

AOR.

6.1 mi. ESE, 2110 hrs, 12.8°C, rain, *Hyla meridionalis* (CMFS 19740-19743; CM 54664-54667)

AOR

6.1 mi. ESE, 2110 hrs, 12.8°C, rain, several *Hyla meridionalis* heard.

6.7 mi. ESE, 2114 hrs, *Triturus pygmaeus* (CMFS 19730; CM 54655) AOR.

6.7 mi. ESE, 2114 hrs, *Pleurodeles waltl* (CMFS 19733; CM 54658) AOR.

6.8 mi. ESE, 2115 hrs, *Hyla meridionalis* (skeleton?)

6.8 mi. ESE, 2115 hrs, *Pelodytes ibericus* (skeleton?) AOR.

8.0 mi. ESE, 2121 hrs, *Hyla meridionalis* (CMFS 19740-19743; CM 54664-54667) AOR.

8.6 mi. ESE, 2124 hrs, *Pelophylax perezi* (CMFS 19734-19735; CM 54659-54660), with distinct

yellow dorsal line, AOR.

9.3 mi. ESE, 2127 hrs, *Discoglossus jeanneae* (CMFS 19732; CM 54657, HOLOTYPE) AOR.

9.3 mi. ESE, 2127 hrs, *Hyla meridionalis* chorus (hundreds heard).

1971, 06 April, Alcalá de los Gazules (N36.43994 W5.71962), C-440 SE -2-

9.3 mi. ESE, 2131 hrs, juvenile *Pelophylax perezi* (CMFS 19734-19735; CM 54659-54660)

AOR.

9.3 mi. ESE, 2131 hrs, huge mixed chorus of frogs.

11.8 mi. ESE, 2137 hrs, rain, *Hyla meridionalis* (CMFS 19740-19743; CM 54664-54667) AOR.

1971, 06 April, Casas del Castaño (N36.30792 W5.59662), C-440

1.9 mi. ESE, 2154 hrs, juvenile *Pelophylax perezi* (CMFS 19734-19735; CM 54659-54660)

AOR.

2.1 mi. ESE, 2156 hrs, *Bufo spinosus* (CMFS 19736-19739; CM 54661-54663, CM 54669)

AOR.

2.8 mi. ESE, 2158 hrs, *Bufo spinosus* (CMFS 19736-19739; CM 54661-54663, CM 54669)AOR*.*

3.0 mi. ESE, 2201 hrs *Bufo spinosus* (CMFS 19736-19739; CM 54661-54663, CM 54669) AOR.

5.2 mi. ESE, 2210 hrs, heavy rain, juvenile *Hyla meridionalis*(CMFS 19740-19743; CM 54664-

54667) AOR.

5.7 mi. ESE, 2213 hrs, 10.0°C, ceased raining, *Bufo spinosus* (CMFS 19736-19739; CM 54661-

54663, CM 54669) AOR.

6.7 mi. ESE, breeding *Hyla* *meridionalis* noted to N.

7.0 mi. ESE, 2220 hrs, 10.0°C, *Hyla meridionalis* (CMFS 19740-19743; CM 54664-54667)

AOR.

7.5 mi. ESE, 2222 hrs, *Discoglossus g. jeanneae* AOR (may have been skeletonized).

1971, 06 April, Algeciras (N36.12751 W5.44806), N-340

7.1 mi. S, 2305 hrs, *Bufo spinosus* (CMFS 19744; CM 54668) AOR.

1971, 06 April, Tarifa (N36.02652 W5.60407), N-340

17.9 mi. WNW, *Epidalea calamita* AOR, not taken.

17.9 mi. WNW, *Bufo spinosus.*

28.5 mi. WNW, 2345 hrs, *Bufo spinosus*

1971, 08 April, Vejer de la Frontera-Cabo Trafalgar

1930 hrs, 12.8°C, raining on and off all week.

1971, 08 April, Vejer de la Frontera, to Cabo Trafalgar (N36.25278 W5.98158), via A-2230

7.8 mi. S, 2300 hrs, *Pelobates cultripes* (CMFS 19745-19746; CM 54670-54671) AOR*.*

1971, 08 April, Trafalgar (N to Vejer) (~N36.18564 W6.03306) (A-2230)

0.4 mi. N, 2340 hrs, 10.0°C, *Pelobates cultripes* (CMFS 19745-19746; CM 54670-54671) AOR.

*Hyla meridionalis* tends to breed in shallow bodies of water in large groups, *Pelodytes ibericus* seems to prefer puddles in congregations of 2 or 3. Chorus of *Pelodytes ibericus* usually not present or present in small groups of 3-5 spread over a large area. ♂ *Pelodytes* seem to be individualistic whereas *Hyla* is definitely group oriented.

1971, 10 April, La Algaida (N36.862136 W6.302683)

0930 hrs, 13.3°C.

1007 hrs, adult *Psammodromus algirus* (CMFS 19747; CM 54672) with orange markings on

jaw, upper labials, and lateral aspect of head shot in *Juniperus phoenicea.*

1015 hrs, *Acanthodactylus erythrurus* in *Juniperus phoenicea*, sunning previously.

1030 hrs, end survey.

1045 hrs, 14.4°C.

1971, 14 April, Base Naval de Rota, Vicinity of Harbor (N36.624244 W6.334138)

ES 309[9], *Discoglossus g. jeanneae* (CM 94662[9]) developmental series.

1971, 15 April, Rota (N36.62899 W6.35430)-Chipiona (N36.70769 W6.41560) Road

Rota end of road, *Pelodytes ibericus* (CMFS 19748; CM 54673) AOR. No further data

collected.

1971, 16 April, Base Naval de Rota, General (~N 36.627812 W6.331415)

Adult *Rhinechis scalaris* (CMFS 19749; CM 54674) brought in by Jeff Scott with approximately 6 juvenile rabbits in digestive tract. 2 of the rabbits were removed upon preservation.

1971, 17 April, La Algaida (N36.862136 W6.302683)

0930 hrs, 16.7°C.

0934 hrs, adult *Acanthodactylus erythrurus* shot in sand, *Psammodromus algirus* seen.

0942 hrs, *Acanthodactylus erythrurus* shot.

0944 hrs, *Acanthodactylus erythrurus* shot, 2 others seen.

0952 hrs, (~ ± 17.8°C) juvenile *Psammodromus algirus* in *Juniperus phoenicea*, 2 juvenile *Acanthodactylus erythrurus* seen.

0953 hrs, adult *Acanthodactylus erythrurus* in *Juniperus phoenicea*.

0954 hrs, juvenile *Acanthodactylus erythrurus* in sand, adult *Psammodromus algirus* in

*Juniperus phoenicea*.

0956 hrs, juvenile *Acanthodactylus erythrurus* in *Halimium halimiifolium*

0958 hrs, 2 juvenile *Acanthodactylus erythrurus* in *Corema album* .

0959 hrs, adult *Acanthodactylus erythrurus* shot in *Juniperus phoenicea*.

1005 hrs, adult *Acanthodactylus erythrurus* shot in *Juniperus phoenicea*.

1008 hrs juvenile *Acanthodactylus erythrurus* in *Corema album* .

1009 hrs, juvenile *Acanthodactylus erythrurus* in open sun.

1010 hrs, juvenile *Acanthodactylus erythrurus* in *Corema album* .

1014 hrs, *Psammodromus algirus* in *Juncus acutus*.

1015 hrs, adult *Acanthodactylus erythrurus* shot ca. *Juniperus phoenicea*.

1019 hrs, adult *Acanthodactylus erythrurus* and 2 juvenile *Acanthodactylus erythrurus* in

*Juniperus phoenicea*.

1022 hrs, adult *Acanthodactylus erythrurus* in *Juniperus phoenicea*.

1028 hrs, 3 juvenile *Acanthodactylus erythrurus* and 1 adult *Acanthodactylus erythrurus* in

*Corema album* area.

1032 hrs, adult *Acanthodactylus erythrurus* shot, 1 seen in *Juniperus phoenicea*.

1034 hrs, juvenile *Acanthodactylus erythrurus* in open sun.

1035 hrs, sub-adult *Acanthodactylus erythrurus* in *Corema album*.

1038 hrs, adult *Acanthodactylus erythrurus* shot in *Corema album*.

1039 hrs, *Psammodromus algirus* shot in *Juniperus phoenicea*.

1040 hrs, juvenile *Acanthodactylus erythrurus* in *Juniperus phoenicea*.

1044 hrs, 3 *Acanthodactylus erythrurus*, 1 shot, in *Juniperus phoenicea*.

1046 hrs, adult *Psammodromus algirus* in *Corema album*.

1048 hrs, juvenile *Acanthodactylus erythrurus* in *Corema album*.

1050 hrs, adult *Acanthodactylus erythrurus* in *Corema album*.

1051 hrs, juvenile *Acanthodactylus erythrurus* in *Corema album*.

1971, 17 April, La Algaida (N36.862136 W6.302683) -2-

1052 hrs, adult *Acanthodactylus erythrurus* shot in *Corema album*.

1055 hrs, *Psammodromus algirus* in sand while sunning.

1058 hrs, 2 adult, 1 sub-adult, 1 juvenile *Acanthodactylus erythrurus* in *Corema album*.

1101 hrs, juvenile *Acanthodactylus erythrurus* and sub-adult *Acanthodactylus erythrurus* in

*Corema album*.

1102 hrs, juvenile *Acanthodactylus erythrurus* in *Corema album*.

1105 hrs, adult *Acanthodactylus erythrurus* shot in open sand, adult *Psammodromus algirus* seen

in *Juniperus phoenicea*.

1108 hrs, *Acanthodactylus erythrurus* shot in *Halimium halimiifolium* area.

1109 hrs, *Psammodromus algirus* in *Juniperus phoenicea*.

1111 hrs, *Psammodromus algirus* shot and 1 seen in *Juniperus phoenicea*.

1115 hrs, 21.7°C, total shade.

1137 hrs, adult *Acanthodactylus erythrurus* shot in *Juniperus phoenicea*.

1139 hrs, juvenile *Acanthodactylus erythrurus* ran into *Juniperus phoenicea* from sand in direct

sun.

1141 hrs, juvenile *Acanthodactylus erythrurus* in *Corema album*.

1142 hrs, adult *Acanthodactylus erythrurus* in *Juniperus phoenicea*.

1143 hrs, juvenile *Acanthodactylus erythrurus* in *Corema album*.

1144 hrs, adult *Acanthodactylus erythrurus* shot in *Corema album*, juvenile seen.

1145 hrs, adult *Acanthodactylus erythrurus* in *Corema album*.

1146 hrs, 3 juvenile *Acanthodactylus erythrurus* in open sand.

1153 hrs, adult *Acanthodactylus erythrurus* and 2 juvenile *Acanthodactylus erythrurus* in

*Corema album* area. Adults bury in *Corema album*  roots when pursued.

1157 hrs, *Acanthodactylus erythrurus* shot in *Corema album*.

1158 hrs, *Psammodromus algirus* in *Juniperus phoenicea*.

1159 hrs, *Acanthodactylus erythrurus* shot in *Juniperus phoenicea*.

1204 hrs, 2 juvenile *Acanthodactylus erythrurus* in *Corema album* , 1 adult in *Juniperus*

*phoenicea*.

1206 hrs, adult *Acanthodactylus erythrurus* in *Juniperus phoenicea*.

1207 hrs, adult *Acanthodactylus erythrurus* shot in *Juniperus phoenicea*.

1209 hrs, adult *Acanthodactylus erythrurus* in *Juniperus phoenicea*.

1211 hrs, 2 juvenile *Acanthodactylus erythrurus* in *Corema album*.

1214 hrs, juvenile *Acanthodactylus erythrurus* in *Corema album*.

1220 hrs, adult *Acanthodactylus erythrurus* shot in *Corema album*, 3 juvenile *Acanthodactylus*

*erythrurus* in open sun.

1222 hrs, juvenile *Acanthodactylus erythrurus* in open sand.

1224 hrs, adult *Acanthodactylus erythrurus* shot under *Pinus pinea* in shade.

1226 hrs, juvenile *Acanthodactylus erythrurus* shot in open sand.

1228 hrs, juvenile *Acanthodactylus erythrurus*, adult *Acanthodactylus erythrurus* shot in

*Corema album*.

1230 hrs, adult *Acanthodactylus erythrurus* shot, juvenile *Acanthodactylus erythrurus* seen in

*Corema album*..

1232 hrs, adult Acanthodactylus in *Juniperus phoenicea*.

1234 hrs, juvenile *Acanthodactylus erythrurus* shot, 1 juvenile *Psammodromus algirus* seen.

1235 hrs, adult *Psammodromus algirus* shot in *Corema album* .

1971, 17 April, La Algaida (N36.862136 W6.302683) -3-

1235 hrs, adult *Psammodromus algirus* shot in *Corema album* .

1239 hrs, 2 juvenile *Acanthodactylus erythrurus* in open sand.

1241 hrs, juvenile *Acanthodactylus erythrurus* shot.

1243 hrs, adult *Acanthodactylus erythrurus* in *Juniperus phoenicea*.

1245 hrs, adult *Acanthodactylus erythrurus* in *Halimium halimiifolium.*

1246 hrs, adult *Acanthodactylus erythrurus* shot, adult *Acanthodactylus erythrurus* seen in

*Juniperus phoenicea*.

1251 hrs, juvenile *Acanthodactylus erythrurus* shot in open sand.

1252 hrs, *Acanthodactylus erythrurus* in *Corema album* .

1259 hrs, adult *Acanthodactylus erythrurus* and juvenile *Acanthodactylus erythrurus* in *Corema*

*album*.

1303 hrs, juvenile *Acanthodactylus erythrurus* in *Corema album*.

1305 hrs, juvenile *Acanthodactylus erythrurus* in *Corema album*.

1307 hrs, 2 adult *Acanthodactylus erythrurus* and 1 juvenile *Acanthodactylus erythrurus* in area

of *Halimium halimiifolium*, *Juncus acutus*, *Juniperus phoenicea*, and *Corema album*.

1309 hrs, adult *Acanthodactylus erythrurus* shot in open sand, juvenile *Acanthodactylus*

*erythrurus* seen in *Corema album*.

1311 hrs, adult *Acanthodactylus erythrurus* shot in open sand.

1315 hrs, juvenile *Acanthodactylus erythrurus* in open sand.

1319 hrs, 2 juvenile *Acanthodactylus erythrurus* in *Corema album*.

1322 hrs, adult ♂ *Psammodromus algirus* with bright orange skin ( see color transparency)

collected.

1324 hrs, adult *Acanthodactylus erythrurus* in bright sun.

1326 hrs, 23.3°C, shade.

1342 hrs, 24.4°C, shade.

1351 hrs, *Psammodromus algirus* shot in *Pistacia lentiscus.*

1400 hrs, *Blanus cinereus (*CMFS 19750; CM 54675) found under *Pistacia lentiscus* in loose

sand/*Pinus* needles.

1401 hrs, adult *Acanthodactylus erythrurus* in *Corema album* .

1407 hrs, adult *Acanthodactylus erythrurus* and juvenile *Psammodromus algirus* in *Corema*

*album*.

1411 hrs, juvenile *Acanthodactylus erythrurus* in *Corema album*.

1414 hrs, adult *Psammodromus algirus* in *Juniperus phoenicea*.

1417 hrs, adult *Psammodromus algirus* shot in *Corema album*.

1421 hrs, adult *Acanthodactylus erythrurus* in *Corema album*.

1425 hrs, adult *Acanthodactylus erythrurus* in *Corema album*.

1430 hrs, adult *Acanthodactylus erythrurus* and 2 juvenile *Acanthodactylus erythrurus* in

*Corema album*.

1431 hrs, *Acanthodactylus erythrurus* in *Corema album*.

1432 hrs, adult *Acanthodactylus erythrurus* shot in *Corema album*.

1435 hrs, adult *Acanthodactylus erythrurus* and 2 juvenile *Acanthodactylus erythrurus* in

*Juniperus phoenicea*.

1437 hrs, adult *Acanthodactylus erythrurus* and juvenile *Acanthodactylus erythrurus* in

*Juniperus phoenicea*.

1971, 17 April, La Algaida (N36.862136 W6.302683) -4-

1441 hrs, 2 adult *Acanthodactylus erythrurus* in *Juniperus phoenicea*.

1442 hrs, *Acanthodactylus erythrurus* in *Juniperus phoenicea*.

1445 hrs, juvenile *Acanthodactylus erythrurus* in *Corema album*.

1447 hrs, adult *Acanthodactylus erythrurus* in *Corema album*.

1449 hrs, adult *Acanthodactylus erythrurus* in *Juniperus phoenicea*.

1455 hrs, juvenile *Acanthodactylus erythrurus* in *Corema album* , *Psammodromus algirus* in

*Corema album*.

1457 hrs, juvenile *Acanthodactylus erythrurus* in *Juniperus phoenicea*.

1459 hrs, adult *Psammodromus algirus* shot in *Juniperus phoenicea*.

1501 hrs, adult *Acanthodactylus erythrurus* shot in *Juniperus phoenicea*.

1510 hrs, adult *Acanthodactylus erythrurus* shot in open sun.

1513 hrs, *Acanthodactylus erythrurus* in *Corema album*  area.

1516 hrs, adult *Acanthodactylus erythrurus* in *Juniperus phoenicea*.

1522 hrs, (~ ± 21.7°C) juvenile *Psammodromus algirus* in *Juniperus phoenicea*.

1527 hrs, , (~ ± 21.6°C) juvenile *Psammodromus algirus* in *Halimium halimiifolium*.

1532 hrs, *Psammodromus algirus* in *Juniperus phoenicea*.

1536 hrs, 2 *Psammodromus algirus* shot in *Pistacia lentiscus* and *Halimium halimiifolium*.

1539 hrs, *Psammodromus algirus* in *Juniperus phoenicea*.

1541 hrs, *Acanthodactylus erythrurus* shot in open sand.

1555 hrs, *Psammodromus algirus* in open area of *Pinus pinea*.

1559 hrs, 20.6°C, open shade.

1604 hrs, juvenile *Acanthodactylus erythrurus* shot in *Cistus crispus*.

1606 hrs, sub-adult *Acanthodactylus erythrurus*

1609 hrs, 2 juvenile *Acanthodactylus erythrurus* in sand, adult *Acanthodactylus erythrurus* in

*Corema album*.

1611 hrs, adult *Acanthodactylus erythrurus* in *Corema album* .

1614 hrs, adult *Acanthodactylus erythrurus* shot in *Corema album*.

1617 hrs, 2 adult *Psammodromus algirus* in *Corema album* , 1 of 2 shot.

1621 hrs, juvenile *Acanthodactylus erythrurus* in *Corema album*.

1624 hrs, adult *Acanthodactylus erythrurus* shot in *Corema album*, juvenile *Acanthodactylus*

*erythrurus* seen in *Corema album*.

1625 hrs, juvenile *Acanthodactylus erythrurus* in *Corema album*.

1628 hrs, juvenile *Acanthodactylus erythrurus* in *Corema album*.

1629 hrs, (~20.8°C) juvenile *Psammodromus algirus* in *Juncus acutus*.

1630 hrs, 2 juvenile *Acanthodactylus erythrurus* in open sand.

1634 hrs, juvenile *Acanthodactylus erythrurus* shot in open sun.

1644 hrs, juvenile *Acanthodactylus erythrurus* in *Corema album*.

1646 hrs, adult *Psammodromus algirus* in *Corema album*.

1649 hrs, (~20.9°C) 2 juvenile *Psammodromus algirus* in open sun.

1653 hrs, juvenile *Acanthodactylus erythrurus* in open sun.

1656 hrs, juvenile *Acanthodactylus erythrurus* in *Corema album*.

1710 hrs, 22.2°C.

*Acanthodactylus erythrurus* (CMFS 20564-20595[7]; CM 54676[38].

*Psammodromus algirus* (CMFS 20596-20605; CM 54677[10]).

1971, 10 April, La Algaida Black-Bulb Temperature Readings

|  |  |  |  |
| --- | --- | --- | --- |
| Time | Sun | Open Shade | Sky |
| 0950 hrs | 23°C | 20.5°C |  |
| 1030 hrs | 20°C | 17.0°C |  |

1971, 17 April, La Algaida Black-Bulb Temperature Readings

|  |  |  |  |
| --- | --- | --- | --- |
| Time | Sun | Open Shade | Sky |
| 0944 hrs | 33.5°C | 21°C |  |
| 1030 hrs | 37.5°C | 23°C |  |
| 1101 hrs | 41°C | 24°C |  |
| 1155 hrs | 39.5°C | 25.5°C | Partly cloudy |
| 1215 hrs | 37.5°C | 25.5°C | Partly cloudy |
| 1237 hrs | 42°C | 28.5°C | Clear |
| 1253 hrs | 41.5°C | 27.5°C |  |
| 1317 hrs | 48°C | 32.5°C |  |
| 1409 hrs | 43.5°C | 32°C | West wind |
| 1449 hrs | 45°C | 30°C |  |
| 1504 hrs | 41°C | 29°C |  |
| 1530 hrs | 33.5°C | 29°C | Cloudy |
| 1620 hrs | 34.5°C | 26°C | Partly cloudy |
| 1636 hrs | 36°C | 26.5°C | Cloudy |
| 1644 hrs | 35°C | 26°C | Cloudy |
| 1700 hrs | 33°C | 25°C |  |

1971, 28 April, Base Naval de Rota, Vicinity of Harbor (N36.624244 W6.334138)

ES 310[25], *Pelodytes ibericus* (CM 94663[25]) developmental series.

1971, 30 April, Jerez-Arcos-Bornos-Villamartín-Algodonales-Zahara-Grazalema-Ubrique, 15.8 mi. S: 1800 hrs-2250 hrs, 18.3°C.

1971, 30 April, Grazalema, E (N36.76188 W5.36330) (C-344, A-372) & S (N36.75280

W5.34955) (A-2302)

2.4 mi. S, 2054 hrs, 8.9°C, *Discoglossus g. jeanneae* (CMFS 20608; CM 54680) AOR.

3.8 mi. S, 2106 hrs, 10.0°C, *Bufo spinosus* (CMFS 20606-20607; CM 54678-54679) AOR.

5.4 mi. S, 2115 hrs, 10.0°C, *Bufo spinosus* (CMFS 20606-20607; CM 54678-54679) AOR.

1971, 01 May, Ubrique, 15.8 mi. S-Galis-Alcalá de los Gazules-San Roque-Cádiz Province Border-San Enrique de Guadiaro-San Martín del Tesorillo-Jimena de la Frontera- Castellar de la Frontera-Algeciras-Tarifa-Vejer de la Frontera-Chiclana-Rota

1971, 01 May, Alcalá de los Gazules (N36.43994 W5.71962), C-440 SE

6.6 mi. ESE, 1203 hrs, 5.6°C, raining, *Mauremys leprosa* (CMFS 20610; CM 54682) AOR.

7.4 mi. ESE, 1210 hrs, 15.0°C, *Blanus cinereus* (CMFS 20609; CM 54681) DOR.

1971, 02 May, Jerez-La Barca de la Florida-San José del Valle-Tempul-Galis-Alcalá de los Gazules-Benalup de Sidonia-Vejer de la Frontera

0850 hrs-1840 hrs.

1971, 02 May, La Barca de la Florida (N36.64927 W5.93386) (CA-502/CA-503 split)

4.4 km. E, area burned, only *Pinus pinea* left of original study area.

1971, 02 May, San José del Valle (N36.61248 W5.80463), CA-503 (A-2201)

2.5 mi. E, 1000 hrs, 11.1°C, *Macroprotodon brevis* DOR.

1971, 02 May, Galis (N36.55958 W5.60101), C-3331

6.0 mi. N, I turned W on logging road and into *Montes Propios de Jerez*, a heavily forested area.

ES 301 (CM, unidentified)

0.3 mi. W, 1100 hrs-1130 hrs, 16.1°C, 4 *Psammodromus algirus*, 1 adult and 3 juveniles in

rocks.

0.3 mi. W, N36.61994 W5.61500 (181 m), 1100 hrs-1130 hrs, 16.1°C, *Tarentola mauritanica* (CMFS 20611; CM 54683) shot.

0.3 mi. W, N36.61994 W5.61500 (181 m), 1100 hrs-1130 hrs, 16.1°C, *Podarcis vaucheri* (CMFS 20612-20614; CM 54684-54686) shot under partially clouded skies.

2.0 mi. W, 14.4°C, *Podarcis vaucheri* on bridge.

2.8 mi. W, 1153 hrs-1158 hrs, 18.3°C, in a rock-laden area, one spider collected.

3.1 mi. W, N36.59800 W5.61980 (224 m), 1206 hrs, 18.9°C, *Psammodromus algirus* (CMFS 20615-20620; CM 54687[6]) shot. *Ulex* sp. seen blooming.

5.7 mi. W, N36.58187 W5.64094 (267 m), *Psammodromus algirus* shot, *Psammodromus algirus* seen.

5.7 mi. W, N36.58187 W5.64094 (267 m), *Tarentola mauritanica*, Juvenile *Tarentola* *mauritanica* also.

5.7 mi. W, N36.58187 W5.64094 (267 m), a large series of *Pelophylax perezi.*

6.3 mi. W, *Cistus ladanifer* area.

7.1 mi. W, photo taken (W).

7.5 mi. W, N36.57800 W5.66500 (522 m), 1255 hrs, 22.8°C, *Psammodromus algirus* (CMFS 20615-20620; CM 54687[6]) shot on a rock.

7.7 mi. W, *Tarentola mauritanica*.

7.8 mi. W, N36.57738 W5.66582 (458 m), 20.0°C, area of heavy rock and small shack

7.8 mi. W, N36.57738 W5.66582 (458 m), 23.3°C, juvenile *Psammodromus algirus*

7.8 mi. W, N36.57738 W5.66582 (458 m), 15.6°C and overcast, large *Blanus mariae* (CMFS 20621) collected under a rock on a

Hillside.

7.8 mi. W, N36.57738 W5.66582 (458 m), 15.6°C and overcast, *Podarcis vaucheri* (CMFS 20612-20614; CM 54684-54686) shot, several juveniles seen.

7.8 mi. W, N36.57738 W5.66582 (458 m), 15.6°C and overcast, 2 *Psammodromus algirus* (CMFS 20615-20620; CM 54687[6]) shot, several juveniles seen.

8.8 mi. W, *Podarcis vaucheri* on a rock.

10.6 mi. W, N36.57060 W5.70800 (244 m), 1436 hrs, 17.8°C, *Psammodromus algirus* (CMFS 20615-20620; CM 54687[6]) shot in *Cistus ladanifer* area, *Ulex* also present with *Quercus suber*.

11.9 mi. W, 1500 hrs, 13.3°C, *Podarcis vaucheri* shot from board in a *Pinus pinaster* area with

*Quercus suber*.

1971, 02 May, Galis (N36.55958 W5.60101), C-3331 -2-

15.6 mi. W, on road to Algar-Galis once again. From previously mentioned building (7.8 mi W) to here is bad road for 2-wheel drive vehicles at this time of year. For last 3-4 miles, I’ve been sliding “skidding” the car through many large areas of muddy ground.

1971, 02 May, Vejer de la Frontera (N36.26089 W5.96476), N-340

1.7 mi. NW, *Rhinechis scalaris* DOR.

1971, 02 May, Puerto de Santa María (= Valdelagrana, N36.57945 W6.22406)

1.8 mi. ESE, 1830 hrs-1840 hrs, *Pelophylax perezi* but no *Pelobates cultripes* tadpoles.

1971, 04 May, Rota-Chipiona-Rota-Puerto Real-Rota

1930 hrs-2230 hrs, 15.6°C-12.2°C.

1971, 04 May, Rota (N36.62899 W6.35430)

6.0 mi. W, *Timon lepidus* (CMFS 20622; CM 54689) under a railroad tie; several centipedes in

area (ES 302; CM unidentified).

1971, 04 May, Puerto Real, from N-IV at ~N36.53761 W6.16818 to C-440 via A-408

1.3 mi. E, 2115 hrs, 13.3°C, *Pelobates cultripes* (CMFS 20623 [deformed foot] -20624; CM

54690-54691) AOR.

4.4 mi. E, 2200 hrs, 12.2°C, juvenile *Pelobates cultripes* AOR.

1.7 mi. E, 2210 hrs, 13.3°C, *Natrix maura* DOR.

1.7 mi. E, 2210 hrs, 13.3°C, *Epidalea calamita* DOR.

1.0 mi. E, *Hyla meridionalis* DOR.

1971, 08 May, Naval Base-Puerto de Santa María-Puerto Real-Chiclana-Vejer-Facinas-Return: 1200 hrs-1700 hrs, 17.8°C, overcast with occasional rain.

1971, 08 May, Base Naval de Rota, General (~N 36.627812 W6.331415)

*Natrix maura* DOR.

1971, 08 May, Facinas (N36.14768 W5.70281), CA-221

6.9 mi. N, 1355 hrs, 16.7°C, *Podarcis vaucheri*

8.6 mi. N, 1405 hrs, 15.6°C, *Podarcis vaucheri*

1971, 08 May, Vejer de la Frontera (N36.26089 W5.96476), N-340

1.2 mi. W, *Rhinechis scalaris* DOR, not salvaged.

1971, 08 May, Chiclana de la Frontera (N36.42156 W6.14469), N-340

2.1 mi. ENE, 1525 hrs, 18.9°C, adult *Rhinechis scalaris* DOR.

2.6 mi. ENE, 1528 hrs, 21.1°C, adult *Rhinechis scalaris* (CMFS 20625; CM 54692).

11.5 mi. ENE, 1545 hrs, 18.9°C and cloudy, adult *Timon lepidus* DOR.

1971, 08 May, Puerto Real, from N-IV at ~N36.53761 W6.16818 to C-440 via A-408

1.2 mi. E, 1625 hrs, *Timon lepidus* AOR.

1971, 09 May, Jerez de la Frontera-Arcos de la Frontera-Plantación de Bornos-Bornos-Villamartín-Algodonales-Zahara-Grazalema-Villaluenga-Benaocaz-Ubrique-El Bosque-Arcos-Jerez: 1300 hrs-1933 hrs, 18.9°C, overcast.

1971, 09 May, Jerez de la Frontera, (N36.69356 W6.10282), N-342

11.2 mi. ENE, 1400 hrs, 18.3°C, *Chalcides striatus* (CMFS 20626; CM 54693) DOR.

1971, 09 May, Arcos de la Frontera, (N36.75559 W5.82017), N-342 (A-382)

4.2 mi. N, 2.3 mi. E at Pantano (=Embalse) de Bornos, 1430 hrs-1500 hrs, 21.1°C, series of *Pelophylax perezi* (CMFS 20627-20634; CM 54694[8]) collected along with a series of eggs (CMFS 20635; damaged & discarded) to the E of the dam in concrete drainage trough.

1971, 09 May, Villamartín (N36.85870 W5.63933), N-342 (A-384)

4.8 mi. E, 1600 hrs, 21.1°C, *Psammodromus algirus* AOR

1971, 09 May, Jerez de la Frontera-Arcos de la Frontera-Pantación de Bornos-Bornos-Villamartín-Algodonales-Zahara-Grazalema-Villaluenga-Benaocaz-Ubrique-El Bosque-Arcos-Jerez: 1300 hrs-1933 hrs, 18.9°C, overcast.

1971, 09 May, Algodonales (N36.87596 W5.40170), N-342 (A-384)

0.8 mi. E, 18.9°C, *Timon lepidus* DOR (not worth saving).

1971, 10 May, Puerto de Santa María (= Valdelagrana, N36.57945 W6.22406)

ES 303, Buthidae, *Buthus occitanus* Ensign Billick, donation.

ES 304 (centipede)

1971, 10 May, Base Naval de Rota, Vicinity of Harbor (N36.624244 W6.334138)

ES 311[13], *Discoglossus g. jeanneae* (CM 94664[13]) (developmental series).

1971, 11 May, Puerto de Santa María (= Valdelagrana, N36.57945 W6.22406)

ES 305 (CM, unidentified). Anonymous donation.

1971, 12 May, Puerto de Santa María-Puerto Real-Jerez de la Frontera-Rota: 1845 hrs-2130 hrs, 18.9°C.

1971, 12 May, Puerto de Santa María (= Valdelagrana, N36.57945 W6.22406)

1845 hrs-1955 hrs, 18.9°C-16.7°C.

1918 hrs, *Chalcides striatus* (CMFS 20637; CM 54696) under a rock in a grassy area.

1930 hrs, *Malpolon monspessulanus* (CMFS 20638; CM 54697) found under a rock. The

specimen was in ecdysis and not preserved on date collected—consult log for exact

preservation date (22 May 1971).

1943 hrs, 4 *Pelophylax perezi* in small stagnant pond (1 adult, 3 sub-adults).

1945 hrs, 2 *Pelophylax perezi* in ponds. The water level is very low in this area right now but the

ponds are still damp.

1971, 12 May, Puerto Real

Drove road to E from 2010 hrs-2130 hrs but found nothing on the road.

1971, 12 May, Chipiona (benchmark) (N36.73124 W6.42889)

*Psammodromus algirus* (CMFS 20636; CM 54695) Donated: P. L. Rayborn

1971, 15 May, Base Naval de Rota, vicinity East

*Hemorrhois hippocrepis* (CMFS 21130; CM 54864) Miguel Moya collection.

1971, 15 May, Rota (Benchmark) (N36.62498 W6.36864)

*Chalcides bedriagai* (CMFS 22857-22861; CM 55765[5]), beneath bark in sandy soil. Miguel Moya collection.

1971, 16 May, Vejer de la Frontera-San Roque-Los Barrios-Casas del Castaño-Benalup de Sidonia-Vejer de la Frontera: 1630 hrs-2400 hrs, 17.2°C-12.2°C.

It has been raining the past two days while we were at sea.

1971, 16 May, Vejer de la Frontera (N36.26089 W5.96476), N-340

6.5 mi. ESE, *Timon lepidus* DOR.

22.2 mi. ESE, 1748 hrs, 18.3°C, *Malpolon monspessulanus* (CMFS 20639; CM 54698) DOR.

1971, 16 May, Los Barrios (N36.19617 W5.50903), C-440 (1969-1972)

4.4 mi. WNW, 2047 hrs, 14.4°C, *Bufo spinosus* (CMFS 20646-20653; CM 54705[8]).

6.4 mi. WNW, 2057 hrs, 14.4°C, *Bufo spinosus* (CMFS 20646-20653; CM 54705[8]).

7.8 mi. WNW, 2106 hrs, 15.6°C, *Bufo spinosus* (CMFS 20646-20653; CM 54705[8]).

8.0 mi. WNW, 2110 hrs, 12.8°C, *Bufo spinosus* (CMFS 20646-20653; CM 54705[8]).

8.0 mi. WNW, 2110 hrs, 12.8°C, *Hyla meridionalis*(CMFS 20641-20642; CM 54700-547001) AOR.

8.8 mi. WNW, 2115 hrs, 12.8°C and light rain, *Bufo spinosus* (CMFS 20646-20653; CM

54705[8]) AOR.

9.3 mi. WNW, 2117 hrs, *Bufo spinosus* (CMFS 20646-20653; CM 54705[8]) AOR.

14.6 mi. WNW, 2138 hrs, 11.1°C and rain, *Bufo spinosus* (CMFS 20646-20653; CM 54705[8])

AOR.

1971, 16 May, Casas del Castaño (N36.30792 W5.59662), C-440

3.2 mi. WNW, *Bufo spinosus* (CMFS 20646-20653; CM 54705[8]) AOR.

1.1 mi. WNW, *Hyla meridionalis*(CMFS 20641-20642; CM 54700-54701) AOR.

0.2 mi. WNW, 2143 hrs, 12.8°C, *Discoglossus jeanneae* (CMFS 20645; CM 54704

PARATYPE) AOR.

7.1 mi. WNW, 2208 hrs, 13.3°C, *Pelodytes ibericus* (CMFS 20643; CM 54702) AOR.

7.7 mi. WNW, 2212 hrs, *Hyla meridionalis* chorus.

9.1 mi. WNW, *Pelodytes ibericus* AOR.

10.0 mi. WNW, 2220 hrs, 12.2°C, *Pelobates cultripes* (CMFS 20644; CM 54703) AOR.

1971, 16 May, Benalup de Sidonia (N36.44740 W5.74818), A-2228 to C-440 intersection

9.5 mi. N, 2240 hrs, 13.3°C, *Pelodytes ibericus* (CMFS 20658; CM 54710) AOR.

7.9 mi. N, 2248 hrs, 12.2°C, *Pelobates cultripes* (CMFS 20666-20667; CM 54714-54715) AOR.

1971, 16 May, Benalup de Sidonia (N36.44740 W5.74818), A-2228 to C-440 intersection -2-

4.7 mi. N, 2259 hrs, 12.2°C, *Pleurodeles waltl* (CMFS 20654-20655; CM 54706-54707) AOR.

4.6 mi. N, ~2300 hrs, *Natrix maura* DOR.

4.3 mi. N, 2304 hrs, 12.2°C, *Triturus pygmaeus* (CMFS 20660-20664; CM 54712[5]) AOR.

3.8 mi. N, 2307 hrs, 12.2°C, *Triturus pygmaeus* (CMFS 20660-20664; CM 54712[5]) AOR.

3.5 mi. N, 2308 hrs, 12.2°C, *Triturus pygmaeus* (CMFS 20660-20664; CM 54712[5]) AOR.

3.4 mi. N, 2311 hrs, 12.2°C, juvenile *Triturus pygmaeus* (CMFS 20660-20664; CM 54712[5])

AOR.

3.1 mi. N, 2313 hrs, 12.2°C, *Hyla meridionalis* (CMFS 20659; CM 54711) AOR.

3.0 mi. N, 2315 hrs, 12.2°C, 2 *Epidalea calamita* (CMFS 20656-20657; CM 54708-54709) AOR.

2.5 mi. N, 2318 hrs, *Pelobates cultripes* (CMFS 20666-20667; CM 54714-54715) AOR.

2.2 mi. N, 2319 hrs, 12.2°C, *Pleurodeles waltl* (CMFS 20654-20655; CM 54706-54707) AOR.

1.5 mi. N, 2323 hrs, 12.2°C. *Triturus pygmaeus* (CMFS 20660-20664; CM 54712[5]) AOR.

7.4 mi. S, 2345 hrs, *Macroprotodon brevis* (CMFS 20640; CM 54699) DOR.

1971, 17 May, Vejer de la Frontera (N36.26089 W5.96476), N-340

5.1 mi. W, 0009 hrs, juvenile *Malpolon monspessulanus* DOR.

1971, 17 May, Chiclana-Medina Sidonia-Puerto Real: 2100 hrs-2335 hrs, 13.3°C-12.8°C.

1971, 17 May, Base Naval de Rota, General (~N 36.627812 W6.331415)

*Epidalea calamita* recorded on Naval Base.

1971, 17 May, Chiclana (N36.42156 W6.14469), N-340

5.5 mi. ENE, 2211 hrs, 13.3°C, *Pelophylax perezi* (AF 756; USNM 193117) AOR.

1971, 18 May, Rota (N36.62899 W6.35430)-Chipiona (N36.70769 W6.41560) Road

1930 hrs-2000 hrs, 21.7°C (H2O), 14.4°C(air).

1971, 18 May, Rota (N36.62899 W6.35430)-Chipiona (N36.70769 W6.41560) Road -2-

2.1 mi. W Rota, a series of *Pelobates cultripes* (200±) tadpoles collected for Norm Gradwell,

University of Calgary.

2.7 mi. W, *Malpolon monspessulanus* (CMFS 20668; CM 54716) DOR.

1971, 20 May, Jerez de la Frontera-La Barca de la Florida-El Torno-San Isidro de Guadalete: 2100 hrs-2300 hrs, 12.2°C.

1971, 20 May, Jerez de la Frontera (N36.68617 W6.09886), CA-502

10.1 mi. E, 12.8°C, 2121 hrs, *Epidalea calamita* (CMFS 20672; CM 54720) AOR.

11.0 mi. E, large chorus of *Hyla meridionalis* noted to N. The road to Algar is currently blocked

due to resurfacing of the road.

1971, 20 May, El Torno (N36.62069 W5.97261), CA-4108

1.2 mi. NW, 2150 hrs, 12.2°C, *Pelophylax perezi* (CMFS 20669-20671; CM 54717-54719)

AOR.

1971, 20 May, San Isidro de Guadalete (N36.64379 W5.98879), CA-3111

0.1 mi NW, 2155 hrs, 12.2°C, *Pelophylax perezi*(CMFS 20669-20671; CM 54717-54719) AOR.

1971, 28 May, La Algaida (N36.862136 W6.302683)

1330 hrs, 18.9°C, 1 adult and 1 juvenile *Psammodromus algirus* along with *Acanthodactylus*

*erythrurus* in *Corema album* .

1333 hrs, *Psammodromus algirus* in *Juniperus phoenicea*.

1335 hrs, 2 adult *Acanthodactylus erythrurus* active in the vicinity of *Juniperus phoenicea*.

1337 hrs, adult *Acanthodactylus erythrurus* in *Juniperus phoenicea*.

1339 hrs, juvenile *Acanthodactylus erythrurus* in *Corema album*.

1340 hrs, sub-adult *Acanthodactylus erythrurus* in *Corema album*.

1344 hrs, sub-adult *Acanthodactylus erythrurus* shot in *Juniperus phoenicea*.

1345 hrs, adult *Acanthodactylus erythrurus* shot near *Corema album*.

1347 hrs, (± 19.1°C) juvenile *Psammodromus algirus* in *Juncus acutus*.

1349 hrs, juvenile *Acanthodactylus erythrurus* shot in *Halimium halimiifolium* area.

1351 hrs, juvenile *Acanthodactylus erythrurus* shot in *Corema album*.

1352 hrs, juvenile *Acanthodactylus erythrurus* in *Corema album*.

1354 hrs, juvenile *Acanthodactylus erythrurus* shot, 1 seen in *Corema album*.

1355 hrs, adult *Acanthodactylus erythrurus* in open sand.

1357 hrs, adult *Acanthodactylus erythrurus* shot while foraging in *Corema album*; utilized

tongue to feed on small insect.

1401 hrs, juvenile *Acanthodactylus erythrurus* in *Corema album*.

1402 hrs, juvenile *Acanthodactylus erythrurus* in *Corema album*.

1405 hrs, juvenile *Acanthodactylus erythrurus* shot in *Corema album*.

1416 hrs, adult *Acanthodactylus erythrurus* in *Corema album* /*Juniperus phoenicea*.

1420 hrs, sub-adult *Acanthodactylus erythrurus* shot while sunning in open sand.

1422 hrs, sub-adult *Acanthodactylus erythrurus* shot while active in *Juncus acutus*/open area.

1425 hrs, adult *Acanthodactylus erythrurus* shot while in direct sun.

1430 hrs, 2 adult *Acanthodactylus erythrurus* seen, 1 juvenile *Acanthodactylus erythrurus* shot

In *Corema album*.

1432 hrs, juvenile *Acanthodactylus erythrurus* shot, 3 other juvenile *Acanthodactylus erythrurus*

seen in *Corema album*.

1434 hrs, sub-adult *Acanthodactylus erythrurus* shot near *Corema album*  in direct sun.

1440 hrs, adult *Acanthodactylus erythrurus* very active in *Corema album*.

1451 hrs, adult *Acanthodactylus erythrurus* shot in *Corema album*.

1454 hrs, juvenile *Acanthodactylus erythrurus* in *Corema album*.

1456 hrs, adult *Acanthodactylus erythrurus* in *Juniperus phoenicea*.

1458 hrs, adult *Acanthodactylus erythrurus* shot in *Corema album*.

1510 hrs, juvenile *Acanthodactylus erythrurus* in *Corema album*.

1512 hrs, (± 19.9°C ) juvenile *Psammodromus algirus* shot in *Juniperus phoenicea*.

1517 hrs, adult *Acanthodactylus erythrurus* in *Corema album*.

1520 hrs, adult *Acanthodactylus erythrurus* in *Pinus pinea*, *Corema album*, *Juniperus phoenicea*

area.

1524 hrs, juvenile *Acanthodactylus erythrurus* in *Corema album*.

1528 hrs, adult *Psammodromus algirus* shot in *Corema album*.

1532 hrs, adult *Acanthodactylus erythrurus* shot in *Corema album*.

1971, 28 May, La Algaida (N36.862136 W6.302683) -2-

1536 hrs, juvenile *Acanthodactylus erythrurus* shot in *Corema album*.

1538 hrs, juvenile *Acanthodactylus erythrurus* in *Corema album*.

1541 hrs, juvenile *Acanthodactylus erythrurus* in *Corema album*.

1545 hrs, sub-adult *Acanthodactylus erythrurus* shot after it ingested a leaf of *Halimium*

*halimiifolium.*

1547 hrs, juvenile *Acanthodactylus erythrurus* shot in *Juncus acutus*.

1551 hrs, sub-adult *Acanthodactylus erythrurus* shot in *Corema album*  (pink on rear legs

fading).

1555 hrs, juvenile *Acanthodactylus erythrurus* in open sand.

1557 hrs, adult *Acanthodactylus erythrurus* in *Corema album*.

1558 hrs, juvenile *Acanthodactylus erythrurus* in open sand.

1602 hrs, juvenile *Acanthodactylus erythrurus* in *Juniperus phoenicea*.

1610 hrs, 2 adult *Acanthodactylus erythrurus* in *Corema album* .

1611 hrs, 2 juvenile *Acanthodactylus erythrurus* in *Corema album*.

1613 hrs, juvenile *Acanthodactylus erythrurus* shot in open sand near *Corema album*.

1614 hrs, adult and juvenile *Acanthodactylus erythrurus* in open sand.

1615 hrs, juvenile *Acanthodactylus erythrurus* shot in open sand in vicinity of *Corema album*.

1620 hrs, juvenile *Acanthodactylus erythrurus* shot in open sand, 2nd *Acanthodactylus*

*erythrurus* seen.

1623 hrs, adult *Acanthodactylus erythrurus* in Halimium halimiifolium area in open sand.

1626 hrs, adult *Psammodromus algirus* in *Juniperus phoenicea*.

1628 hrs, juvenile *Acanthodactylus erythrurus* shot in open sand under *Corema album*.

1634 hrs, juvenile *Acanthodactylus erythrurus* in *Corema album*.

1636 hrs, adult *Acanthodactylus erythrurus* sunning on leeward bank of sand; (± 20.7°C) juvenile *Psammodromus algirus* in *Halimium halimiifolium* area.

1640 hrs, juvenile *Acanthodactylus erythrurus* in sun/sand near *Juniperus phoenicea*.

1643 hrs, adult *Acanthodactylus erythrurus* in open sand in vicinity of *Corema album*.

1653 hrs, juvenile *Acanthodactylus erythrurus* in open sand vicinity of *Corema album*.

1654 hrs, 3 juvenile *Acanthodactylus erythrurus* sunning in open sand.

1656 hrs, juvenile *Acanthodactylus erythrurus* sunning in open sand.

1659 hrs, adult *Psammodromus algirus* in *Juniperus phoenicea*.

1704 hrs, juvenile *Acanthodactylus erythrurus* in *Corema album*  after seen in open sand.

1708 hrs, juvenile *Acanthodactylus erythrurus* shot in open sand of *Corema album*  area.

1711 hrs, juvenile *Acanthodactylus erythrurus* in open sand/*Corema album*.

1717 hrs, adult *Acanthodactylus erythrurus* shot while sunning near *Corema album*.

1720 hrs, adult *Acanthodactylus erythrurus* in vicinity of *Corema album*.

1721 hrs, adult *Acanthodactylus erythrurus* shot in open vicinity of *Corema album*.

1723 hrs, juvenile *Acanthodactylus erythrurus* in open sand in vicinity of *Corema album*.

1724 hrs, adult *Acanthodactylus erythrurus* in *Corema album*  after open sand.

1728 hrs, sub-adult *Acanthodactylus erythrurus* shot in open sand vicinity of *Corema album*.

1730 hrs, adult *Psammodromus algirus* shot in *Juniperus phoenicea*.

1734 hrs, juvenile *Acanthodactylus erythrurus* shot in *Corema album*.

1736 hrs, adult *Acanthodactylus erythrurus* in open sand.

1742 hrs, sub-adult *Acanthodactylus erythrurus* shot in open *Pinus pinea* needle area in the

vicinity of *Juncus acutus* and *Halimium halimiifolium.*

1971, 28 May, La Algaida (N36.862136 W6.302683) -3-

1745 hrs, sub-adult *Acanthodactylus erythrurus* in open sand in the vicinity of *Corema album*.

1749 hrs, sub-adult *Acanthodactylus erythrurus* on windward bank of sand, sunning.

1750 hrs, juvenile *Acanthodactylus erythrurus* in *Corema album*.

1754 hrs, adult *Psammodromus algirus* shot in *Corema album*.

1800 hrs, 16.1°C, end.

*Acanthodactylus erythrurus* (CMFS 20673-20687[16];CM 54789[30]).

*Psammodromus algirus* (CMFS 20688-20691;CM 54790-54793).

1971, 28 May, La Algaida Black body Temperatures

|  |  |  |  |
| --- | --- | --- | --- |
| Time | Sun | Open Shade | Sky |
| 1330 hrs | 43°C | 27°C | Clear |
| 1402 hrs | 43°C | 25°C | Clear / wind |
| 1435 hrs | 40°C | 27.5°C | Clear / wind |
| 1502 hrs | 42°C | 30°C | Clear / wind |
| 1532 hrs | 41°C | 32°C | Clear / wind |
| 1600 hrs | 38.5°C | 29°C | Clear / wind |
| 1631 hrs | 35°C | 24°C | Clear / wind |
| 1700 hrs | 34°C | 24.5°C | Clear / wind |
| 1730 hrs | 30°C | 23.5°C | Clear / wind |
| 1800 hrs | 27°C | 22°C | Clear / wind |

Times are local.

1971, 29 May, La Algaida (N36.862136 W6.302683)

0715 hrs, 13.9°C.

0730 hrs, 16.5°C and overcast (no sun available, hence both temps were =).

0740 hrs, left area with no sign of possible clearing as yet. Rain very possible.

1971, 30 May, La Algaida (N36.862136 W6.302683)

0900 hrs, mosquitoes present, sky clear. Slight breeze as opposed to wind of 28 May.

0906 hrs, 2 juvenile *Acanthodactylus erythrurus* in *Corema album*.

0907 hrs, juvenile *Acanthodactylus erythrurus* shot in *Corema album*.

0908 hrs, juvenile *Acanthodactylus erythrurus* in *Corema album*.

0911 hrs, juvenile *Acanthodactylus erythrurus* in *Corema album*.

0912 hrs, adult *Acanthodactylus erythrurus* foraging in *Corema album*  area.

0915 hrs, juvenile *Acanthodactylus erythrurus* in *Juniperus phoenicea*.

0916 hrs, juvenile *Acanthodactylus erythrurus* in *Juncus acutus*.

0917 hrs, juvenile *Acanthodactylus erythrurus* in *Juniperus phoenicea*.

0918 hrs, sub-adult *Acanthodactylus erythrurus* shot in *Juniperus phoenicea*, *Psammodromus*

*algirus* seen in same area.

0920 hrs, juvenile *Acanthodactylus erythrurus* in open sand in the vicinity of *Halimium*

*Halimiifolium.*

0925 hrs, adult *Acanthodactylus erythrurus* shot in *Corema album*.

0926 hrs, sub-adult *Acanthodactylus erythrurus* shot in *Corema album*.

0927 hrs, 2 juvenile *Acanthodactylus erythrurus* in *Corema album*.

1971, 30 May, La Algaida (N36.862136 W6.302683) -2-

0928 hrs, juvenile *Acanthodactylus erythrurus* in *Corema album*.

0929 hrs, juvenile *Acanthodactylus erythrurus* chewing on *Halimium halimiifolium* petal in

*Corema album* area.

0932 hrs, juvenile *Acanthodactylus erythrurus* in *Corema album*.

0933 hrs, sub-adult *Acanthodactylus erythrurus* in *Corema album*.

0935 hrs, adult *Acanthodactylus erythrurus* shot in open sand.

0939 hrs, adult *Psammodromus algirus* in *Juniperus phoenicea*.

0941 hrs, juvenile *Acanthodactylus erythrurus* in open sand.

0942 hrs, juvenile *Acanthodactylus erythrurus* in *Corema album*.

0944 hrs, juvenile *Acanthodactylus erythrurus* in open sand.

0946 hrs, juvenile *Acanthodactylus erythrurus* in *Corema album*.

0948 hrs, juvenile *Acanthodactylus erythrurus* shot in *Corema album*.

0949 hrs, adult *Acanthodactylus erythrurus* in open sand.

0950 hrs, adult *Acanthodactylus erythrurus* in open sand.

0952 hrs, juvenile *Acanthodactylus erythrurus* shot in *Juniperus phoenicea*.

0957 hrs, juvenile *Psammodromus algirus* in *Juniperus phoenicea*. juvenile *Acanthodactylus erythrurus* shot in *Corema album*.

0959 hrs, 2 juvenile *Acanthodactylus erythrurus* in *Corema album*.

1000 hrs, juvenile *Acanthodactylus erythrurus* in *Corema album*.

1003 hrs, 2 juvenile *Acanthodactylus erythrurus* in *Corema album*.

1006 hrs, adult *Psammodromus algirus* in breeding condition shot in *Juniperus phoenicea*.

1008 hrs, juvenile *Acanthodactylus erythrurus* shot in open sand.

1009 hrs, adult *Acanthodactylus erythrurus* in open sand.

1011 hrs, adult *Acanthodactylus erythrurus* shot in *Corema album.*

1011 hrs, juvenile *Acanthodactylus erythrurus* in *Juniperus phoenicea*.

1013 hrs, adult *Acanthodactylus erythrurus* shot, juvenile in *Corema album*.

1018 hrs, adult *Psammodromus algirus* shot in *Corema album*.

1021 hrs, juvenile *Psammodromus algirus* shot in *Corema album*, *Juniperus phoenicea*, at base

of *Pinus pinea*.

1022 hrs, adult *Acanthodactylus erythrurus* in *Corema album* /*Juniperus phoenicea*.

1024 hrs, juvenile *Acanthodactylus erythrurus* in *Corema album*.

1026 hrs, juvenile *Acanthodactylus erythrurus* in *Corema album*.

1028 hrs, juvenile *Acanthodactylus erythrurus* in open sand.

1029 hrs, juvenile *Acanthodactylus erythrurus* shot in open sand.

1032 hrs, juvenile *Psammodromus algirus* shot in *Corema album*.

1034 hrs, juvenile *Acanthodactylus erythrurus* in *Corema album*.

1037 hrs, juvenile *Psammodromus algirus* shot in *Corema album*.

1039 hrs, juvenile *Acanthodactylus erythrurus* in *Corema album*.

1040 hrs, adult *Acanthodactylus erythrurus* buried beneath *Pinus* needles in *Corema album*;

juvenile *Acanthodactylus erythrurus* in open sand in the vicinity of *Corema album*.

1042 hrs, juvenile *Acanthodactylus erythrurus* shot in open sand.

1045 hrs, adult *Acanthodactylus erythrurus* seen, juvenile *Acanthodactylus erythrurus* shot in

*Juniperus phoenicea*.

1047 hrs, sub-adult *Acanthodactylus erythrurus* shot, juvenile *Acanthodactylus erythrurus* in

open sand.

1971, 30 May, La Algaida -2-

1048 hrs, juvenile *Acanthodactylus erythrurus* in *Corema album* /open sand.

1050 hrs, juvenile *Acanthodactylus erythrurus* seen, 1 shot in *Corema album* area.

1055 hrs, adult *Acanthodactylus erythrurus* shot, juvenile *Acanthodactylus erythrurus* in

*Corema album* .

1058 hrs, juvenile *Acanthodactylus erythrurus* in open sand.

1104 hrs, adult *Psammodromus algirus* in *Juniperus phoenicea*.

1105 hrs, adult *Psammodromus algirus* in *Juniperus phoenicea*.

1110 hrs, adult *Acanthodactylus erythrurus* in open area in the vicinity of *Corema album*,

*Halimium halimiifolium.*

1112 hrs, adult *Acanthodactylus erythrurus* in *Juniperus phoenicea*.

1113 hrs, adult *Acanthodactylus erythrurus* in *Corema album*.

1117 hrs, juvenile *Acanthodactylus erythrurus* in *Corema album*.

1120 hrs, juvenile *Acanthodactylus erythrurus* in open sand.

1122 hrs, juvenile *Acanthodactylus erythrurus* shot in *Corema album*.

1123 hrs, 1 adult, 1 juvenile *Acanthodactylus erythrurus* in *Juncus acutus*, *Juniperus phoenicea*

area.

1131 hrs, juvenile *Acanthodactylus erythrurus* in *Corema album*.

1137 hrs, adult *Psammodromus algirus* shot in *Juniperus phoenicea* in N ecotone area.

1140 hrs, adult *Acanthodactylus erythrurus* shot in open sand.

1144 hrs, adult *Acanthodactylus erythrurus* shot in *Corema album*, juvenile *Acanthodactylus*

*erythrurus* seen in open sand.

1145 hrs, juvenile *Acanthodactylus erythrurus* in open sand.

1150 hrs, juvenile *Acanthodactylus erythrurus* in open area of Juncus acutus/*Juniperus*

*phoenicea*.

1154 hrs, adult *Acanthodactylus erythrurus* and juvenile *Acanthodactylus erythrurus* in open

sand/shade.

1159 hrs, adult *Acanthodactylus erythrurus* in *Cistus crispus* area.

1206 hrs, adult *Acanthodactylus erythrurus* in *Halimium halimiifolium* area.

1210 hrs, juvenile *Acanthodactylus erythrurus* in open sand-*Corema album* area.

1213 hrs, adult *Acanthodactylus erythrurus* shot in Juncus acutus/*Juniperus phoenicea* area.

1215 hrs, juvenile *Acanthodactylus erythrurus* in *Corema album*.

1219 hrs, adult *Acanthodactylus erythrurus* shot in *Corema album*  area.

1229 hrs, adult *Acanthodactylus erythrurus* shot in *Corema album*.

1233 hrs, adult *Acanthodactylus erythrurus* in *Juniperus phoenicea*, juvenile *Acanthodactylus*

*erythrurus* in open sand.

1236 hrs, juvenile *Acanthodactylus erythrurus* shot in *Corema album*.

1238 hrs, juvenile *Acanthodactylus erythrurus* in *Corema album*.

1239 hrs, adult *Acanthodactylus erythrurus* and juvenile *Acanthodactylus erythrurus* in open

sand.

1241 hrs, juvenile *Acanthodactylus erythrurus* in *Corema album*.

1243 hrs, juvenile *Psammodromus algirus* shot in *Corema album*; juvenile *Acanthodactylus erythrurus* seen in area.

1244 hrs, juvenile *Acanthodactylus erythrurus* in *Corema album*.

1247 hrs, adult *Acanthodactylus erythrurus* in open sand.

1971, 30 May, La Algaida -3-

1249 hrs, juvenile *Acanthodactylus erythrurus* shot in *Corema album*, adult *Acanthodactylus*

*erythrurus* seen.

1254 hrs, adult *Acanthodactylus erythrurus* shot, juvenile *Acanthodactylus erythrurus* seen in

open sand.

1255 hrs, juvenile *Acanthodactylus erythrurus* in *Corema album*.

1256 hrs, adult *Acanthodactylus erythrurus* in *Corema album*.

1302 hrs, juvenile *Acanthodactylus erythrurus* in open sand.

1304 hrs, juvenile *Acanthodactylus erythrurus* in *Corema album*, adult *Acanthodactylus*

*erythrurus* in *Juniperus phoenicea*.

1305 hrs, adult *Acanthodactylus erythrurus* in *Juniperus phoenicea*.

1306 hrs, juvenile *Acanthodactylus erythrurus* in open *Pinus pinea* needle area.

1309 hrs, juvenile *Acanthodactylus erythrurus* in open sand.

1310 hrs, adult *Acanthodactylus erythrurus* in *Corema album*.

1312 hrs, juvenile *Acanthodactylus erythrurus* in open sand.

1314 hrs, juvenile *Acanthodactylus erythrurus* in open sand.

1317 hrs, adult *Psammodromus algirus* in open sand.

1320 hrs, adult *Psammodromus algirus* in open sand and then to nest (?) under root of *Pinus*

*pinea*.

1325 hrs, juvenile *Acanthodactylus erythrurus* in open sand.

1326 hrs, adult *Acanthodactylus erythrurus* in *Corema album*  area.

1327 hrs, juvenile *Acanthodactylus erythrurus* in open sand.

1328 hrs, juvenile *Acanthodactylus erythrurus* in *Corema album*.

1330 hrs, end.

1405 hrs, 24.4°C.

*Acanthodactylus erythrurus* (CMFS 20692-20700, 21051-21056[12];CM 54794[26]).

*Psammodromus algirus* (CMFS 21057-21060[4];CM 54795[7]).

1971, 30 May, La Algaida Black body Temperatures

|  |  |  |  |
| --- | --- | --- | --- |
| Time | Sun | Open Shade | Sky |
| 0900 hrs | 36°C | 22°C | Clear |
| 0930 hrs | 39.5°C | 23°C | Clear |
| 1000 hrs | 40°C | 24.5°C | Clear |
| 1035 hrs | 44.5°C | 25°C | Clear |
| 1100 hrs | 48°C | 26°C | Clear |
| 1130 hrs | 51°C | 28°C | Clear |
| 1200 hrs | 53°C | 27°C | Clear |
| 1230 hrs | 56°C | 28°C | Clear |
| 1300 hrs | 52°C | 28.5°C | Clear |
| 1330 hrs | 53°C | 28°C | Clear/wind |

Times are local.

Open shade temperatures are taken at base of *Juniperus phoenicea* on open sand area, sun temperatures are taken at base of large *Pinus pinea* which is on a sand dune. Thermometer for sun temps is moved around base of tree as the earth revolves and shadows change location.

1971, 30 May, La Algaida-Vejer de la Frontera-Facinas-Casas del Castaño-Benalup de Sidonia-Rota End survey at 2310 hrs.

1971, 30 May, Vejer de la Frontera (N36.26089 W5.96476), N-340

3.2 mi. E, 1615 hrs, 22.2°C, *Malpolon monspessulanus* DOR.

1971, 30 May, Facinas (N36.14768 W5.70281), CA-221

5.4 mi. N, 1653 hrs, 27.2°C, *Psammodromus algirus* on a rock in vicinity of *Pistacia lentiscus*

plants.

5.6 mi. N, 1658 hrs, 24.4°C, 2 *Podarcis vaucheri* in copulation, 1 collected (CMFS 21061[5];

CM 54796[5]).

6.0 mi. N (N36.14809 W5.62074, 174 m), 1705 hrs, 26.1°C, *Timon lepidus* seen

6.0 mi. N (N36.14809 W5.62074, 174 m), 1705 hrs, 26.1°C, *Psammodromus occidentalis* (see Fitz, 2014) (CMFS 21073; CM 54808 [photo]).

6.2 mi. N, 1712 hrs, 27.8°C, large *Timon lepidus* seen.

6.2 mi. N, 1712 hrs, 27.8°C, *Tarentola mauritanica* (CMFS 21067-21072; CM 54802-54807).

6.3 mi. N, 1723 hrs, 26.7°C, 2 *Podarcis vaucheri* (CMFS 21061[5]; CM 54796[5]) shot.

6.3 mi. N, 1723 hrs, 26.7°C,1 *Pelophylax perezi* (CMFS 21066; CM 54801) shot.

6.3 mi. N, 1723 hrs, 26.7°C, 3 *Tarentola mauritanica* (CMFS 21067-21072; CM 54802-54807)

shot, 2 *Tarentola mauritanica* not collected.

6.3 mi. N, 1723 hrs, 26.7°C,1 *Podarcis vaucheri* seen on sides of concrete bridge.

6.4 mi. N, 1733 hrs, 28.3°C, *Podarcis vaucheri* shot (CMFS 21061[5]; CM 54796[5]) on bridge.

6.5 mi. N, 1734 hrs, 28.9°C, *Tarentola mauritanica* on a culvert.

6.7 mi. NE, 1742 hrs, 27.2°C, *Tarentola mauritanica* (CMFS 21067-21072; CM 54802-54807)

shot.

6.7 mi. NE, 1742 hrs, 27.2°C, *Timon lepidus* (CMFS 21062-21064) DOR.

6.9 mi. NE, 1758 hrs, 22.8°C, *Timon lepidus.*

6.9 mi. NE, 1758 hrs, 22.8°C, *Tarentola mauritanica.*

7.1 mi. NE, 1802 hrs, 24.4°C, *Timon lepidus.*

7.2 mi. N, 1804 hrs-1807 hrs, 23.9°C, sub-adult *Timon lepidus* (CMFS 21062-21064; CM

54797-54799).

7.2 mi. N, 1804 hrs-1807 hrs, 23.9°C, *Podarcis vaucheri* (CMFS 21061[5]; CM 54796[5]).

8.3 mi. NE, 1811 hrs, 22.2°C, *Psammodromus algirus.*

10.9 mi. N, 1833 hrs, 22.8°C, *Timon lepidus* sunning.

12.0 mi. N, 1841 hrs, 19.4°C, *Tarentola mauritanica* (CMFS 21067-21072; CM 54802-54807)

shot.

12.9 mi. N, 1850 hrs, 20.0°C, juvenile *Mauremys* *leprosa* (CMFS 21065; CM 54800) AOR.

13.4 mi. N, 1900 hrs, 20.0°C, adult *Timon lepidus* (CMFS 21062-21064; CM 54797-54799)

shot.

14.5 mi. N, 1909 hrs, 23.3°C, *Tarentola mauritanica* seen.

14.5 mi. N, 1909 hrs, 23.3°C, *Hemorrhois hippocrepis* shedskin seen.

1971, 30 May, Casas del Castaño (N36.30792 W5.59662), C-440

7.3 mi. NW, 2005 hrs, 17.8°C, *Pelophylax perezi* DOR.

1971, 30 May, Benalup de Sidonia (N36.30792 W5.59662), C-440

9.2 mi. N, 2052 hrs, 16.7°C, chorus of *Hyla meridionalis* heard to E

9.2 mi. N, 2052 hrs, 16.7°C, 2 *Pelophylax perezi* (CMFS 21075-21078; CM 54810-54813) AOR.

7.5 mi. N, 2101 hrs, 16.7°C, *Pelophylax perezi* AOR.

1971, 30 May, Benalup de Sidonia (N36.30792 W5.59662), C-440 -2-

1.6 mi. N, 2117 hrs, 15.6°C, *Pelophylax perezi* AOR.

1.2 mi. N, 2118 hrs, 15.6°C, *Pelophylax perezi* AOR.

1.1 mi. N, 2121 hrs, 16.7°C, 3 juvenile *Pelobates cultripes* (CMFS 21080 [3]; CM 54815-54817)

AOR.

0.6 mi. N, 2125 hrs, 16.7°C, *Hyla meridionalis* (CMFS 21079; CM 54814) AOR.

0.3 mi. N, 2127 hrs, 16.7°C, *Macroprotodon brevis* (CMFS 21074; CM 54809); a freshly killed

specimen (cut with machete or some such).

3.7 mi. S, large adult *Timon lepidus* DOR.

4.6 mi. S, 2143 hrs, chorus of *Hyla meridionalis.*

4.6 mi. S, 2143 hrs, *Pelophylax perezi* DOR.

1971, 01 June, Base Naval de Rota, General (~N 36.627812 W6.331415)

1730 hrs, *Timon lepidus* AOR.

2000 hrs, two *Blanus cinereus* (CMFS 21081-21082; CM 54818-54819) collected in a *Pinus pinea* area in harbor. Both specimens were in sand/*Pinus* needle aggregate under a small stone.

1971, 3 June, Base Naval de Rota, General (~N 36.627812 W6.331415)

*Hemorrhois hippocrepis* (CMFS 22864; CM 55768) under a bush. Miguel Moya collection.

1971, 05 June, Zahara de la Sierra (N36.84694 W5.39712)

7.9 mi. S, 1500 hrs-1630 hrs, 10.0°C and cloudy, surveyed mountain area with no luck.

1971, 05 June, Grazalema, E (C-344, A-372) (N36.76188 W5.36330) & S (A-2302) (N36.75280

W5.34955)

5.8 mi. SW, *Bufo spinosus* DOR.

1971, 06 June, Jerez de la Frontera-Vejer de la Frontera-Benalup de Sidonia-Alcalá de los Gazules-Casas del Castaño-Rota: *1800 hrs-2400 hrs.*

1971, 06 June, Jerez de la Frontera (Cartuja de Santa María de la Defenó), to SE (N36.65556

W6.09378), C-440 (1969-1972)

10.8 mi. E, *Rhinechis scalaris* (CMFS 21083; CM 54820) collected DOR.

1971, 06 June, Vejer de la Frontera (N36.26089 W5.96476), N-340

7.6 mi. NE, large (1 m TL) *Rhinechis scalaris* found DOR.

8.4 mi. NE, large adult *Timon lepidus* DOR.

1971, 06 June, Benalup de Sidonia (N36.44740 W5.74818), A-2228 to C-440 intersection

4.9 mi. NE, 2126 hrs, 12.8°C, *Epidalea calamita* (CMFS 21084; CM 54821) AOR.

9.1 mi. NE, 2140 hrs, 12.2°C, *Pelophylax perezi*(CMFS 21085; CM 54822) AOR.

1971, 06 June, Alcalá de los Gazules (N36.43994 W5.71962), C-440

4.4 mi. SE, 2 *Pelobates cultripes* (CMFS 21092 [3]; CM 54829-54831) AOR.

4.4 mi. SE, 1 *Hyla meridionalis*(CMFS 21090; CM 54827) AOR

5.2 mi. SE, 2204 hrs, 12.2°C, *Pelobates cultripes* (CMFS 21092 [3]; CM 54829-54831) AOR.

1971, 06 June, Alcalá de los Gazules (N36.43994 W5.71962), C-440 -2-

7.9 mi. SE, 2212 hrs, 12.8°C, *Bufo spinosus* (CMFS 21086-21089; CM 54823-54826) AOR.

8.0 mi. SE, 2215 hrs, 13.3°C. *Chalcides striatus*(CMFS 21091; CM 54828) AOR.

10.2 mi. SE, 2223 hrs, 12.8°C. *Bufo spinosus* (CMFS 21086-21089; CM 54823-54826) AOR.

1971, 07 June, Base Naval de Rota, General (Benchmark) (N36.637383, W6.346438, 20 M)

1054 hrs, 24.4°C, *Natrix maura* (CMFS 21094; CM 54833) AOR., *Blanus cinereus* (CMFS 21093; CM 54832) collected and donated to me.

1971, 07 June, Puerto de Santa María, 2.2 mi S Benchmark (= Valdelagrana, N36.57447 W6.21956, 3 M) 1200 hrs-1310 hrs, 21.1°C, clear and sunny, *Natrix maura* (CMFS 21109; CM 54840) and *Chalcides striatus* (CMFS 21108; CM 54839) collected under rocks in area. Some *Psammodromus algirus* and another *Chalcides* also seen.

1971, 07 June, Puerto Real, from N-IV at ~N36.53761 W6.16818 to C-440 via A-408

4.7 mi. E, 1345 hrs, 20.6°C, *Psammodromus algirus* in *Pistacia lentiscus*.

4.9 mi. E (N36.52577 W6.08900, 70 m), 1345 hrs-1610 hrs, I surveyed an area of *Quercus coccifera*, *Pinus pinea*, *Pistacia lentiscus*, *Chamaerops humilis, Cistus crispus*, etc. and found several *Acanthodactylus erythrurus* (CMFS 21095-21103[5]; CM 54834[13]).

4.9 mi. E (N36.52577 W6.08900, 70 m), 1345 hrs-1610 hrs, I surveyed an area of *Quercus coccifera*, *Pinus pinea*, *Pistacia lentiscus*, Chamaerops humilis, *Cistus crispus*, etc. and found *Psammodromus algirus* (CMFS 21104-21107; CM 54835-54838).

1971, 07 June, Puerto Real, from N-IV at ~N36.53761 W6.16818 to C-440 via A-408 --2 --

4.9 mi. E (N36.52577 W6.08900, 70 m), 1345 hrs-1610 hrs, I surveyed an area of *Quercus coccifera*, *Pinus pinea*, *Pistacia lentiscus*, *Chamaerops humilis, Cistus crispus*, etc. and saw 2 *Timon lepidus*.

4.9 mi. E (N36.52577 W6.08900, 70 m), 1345 hrs-1610 hrs, I surveyed an area of *Quercus coccifera*, *Pinus pinea*, *Pistacia lentiscus*, *Chamaerops humilis, Cistus crispus*, etc. and saw one *Malpolon monspessulanus*.

1971, 09 June, Rota (N36.62899 W6.35430)

7.2 mi. W Rota, 1640 hrs, *Malpolon monspessulanus* (CMFS 21118; CM 54849) DOR; specimen fresh, apparently unhurt (but dead).

1971, 10 June, Puerto de Santa María (Carretera Sanlúcar, N36.60344 W6.23251)

4.8 mi. N on Puerto-Sanlúcar Road, 1820 hrs, *Malpolon monspessulanus* collected DOR; badly

deteriorated.

1971, 10 June, Puerto de Santa María (N36.57834 W6.21324), CA-32 (=N-IV)

3.4 mi. SE, *Malpolon monspessulanus* DOR.

1971, 10 June, Chipiona (benchmark) (N36.73124 W6.42889)

Chipiona road behind Arroyo Hondo Apartments (~N36.70297 W6.42582), *Epidalea calamita* (CMFS 21119; CM 54850), captured by a cook from the U.S.S. Holland.

1971, 13 June, 0842 hrs-1835 hrs, sunny.

Rota, (0842, 17.8°C)

Jerez de la Frontera (0905 hrs, 17.8°C)

Arcos de la Frontera (0945 hrs, 18.9°C)

Bornos (0948 hrs, 20.0°C)

Villamartín (1000 hrs, 20.6°C)

Zahara de la Sierra (1050 hrs, 20.6°C)

Grazalema (1432 hrs, 24.4°C)

Villaluenga (1455 hrs, 21.1°C)

Benaocaz (1503 hrs, 21.1°C)

Ubrique (1517 hrs, 26.1°C)

Galis (1637 hrs, 23.3°C)

Algar (1712 hrs, 24.4°C)

Arcos de la Frontera (1745 hrs, 24.4°C)

Jerez de la Frontera (1820 hrs, 23.3°C)

1971, 13 June, Villamartín (1000 hrs, 20.6°C) (N36.85870 W5.63933), N-342 (A-384)

9.6 mi. ENE, adult *Rhinechis scalaris* DOR.

12.3 mi. ENE, 1025 hrs, 21.7°C, *Timon lepidus* AOR.

1971, 13 June, Zahara de la Sierra (1050 hrs, 20.6°C) A-7375 and CA-9104 (N36.84694

W5.39712)

7.2 mi. S, 1120 hrs-1410 hrs, 22.2°C, partly cloudy, *Blanus cinereus* (CMFS 21133; CM 54867)

collected under a rock in wet soil about ½ way up mountain.

7.2 mi. S, 1120 hrs-1410 hrs, 22.2°C, partly cloudy, series of *Podarcis vaucheri* (CMFS

21134[8]; CM 54868[8]) collected.

7.2 mi. S, 1120 hrs-1410 hrs, 22.2°C, partly cloudy, two *Chalcides* sp. (probably *striatus*) seen.

7.2 mi. S, 1120 hrs-1410 hrs, 22.2°C, partly cloudy, possibility of my having seen one

*Psammodromus* cf. *hispanicus* there. The quick movement and stoutness of the tail-less

body was my only clue to the specimen’s identity.

1971, 13 June, Zahara de la Sierra -2-

7.4 mi. S, 1420 hrs, 22.2°C, *Podarcis vaucheri* shot off rock on roadway.

1971, 13 June, Ubrique (1517 hrs, 26.1°C) (N36.67253 W5.44669) (A-373)

3.8 mi. S, 1525 hrs, 26.1°C, juvenile *Malpolon monspessulanus* AOR.

14.8 mi. S, 1620 hrs, 22.2°C, *Podarcis vaucheri* on a rock.

1971, 13 June, Galis (1637 hrs, 23.3°C) (N36.55958 W5.60101), C-3331

3.9 mi. N, 1649 hrs, 26.1°C, *Psammodromus algirus* AOR.

1971, 13 June, Algar (1712 hrs, 24.4°C) (N36.65531 W5.65956), CA-6104

2.3 mi. NW, 1720 hrs, 26.1°C, large adult *Malpolon monspessulanus* DOR.

1971, 13 June, Rota

*Timon lepidus* (CMFS 21131; CM 54865) Miguel Moya collection.

1971, 13 June, Rota, near Hotel Playa de la Luz (N36.62960 W6.38314)

*Chamaeleo chamaeleon* (CMFS 21132; CM 54866) in *Pinus pinea* area on Rota-Chipiona Road. Miguel Moya collection.

Provincia de Sevilla

14 June 1971, La Campana (Benchmark) (N37.56874 W5.42667), 138 m (Miguel Moya)

*Natrix maura* (CMFS 21120, CM 54851) (CMFS 21121, CM 54852 missing October, 2017)

*Hemorrhois hippocrepis* (CMFS 21122; CM 54853)

*Pleurodeles waltl* (CMFS 21123[4]; CM 54854-54857)

*Pelophylax perezi* (CMFS 21124-21127; CM 54858-54861)

*Mauremys leprosa* (CMFS 21128-21129; CM 58462-54863)

Provincia de Cádiz

1971, 14 June, Base Naval de Rota, General (~N 36.627812 W6.331415)

*Chalcides striatus* (CMFS 21135; CM 54869) Miguel Moya collection.

1971, 14 June, Rota

*Timon lepidus* (CMFS 21136; CM 54870) in *Pinus pinea* area. Unknown donor.

1971, 17 June, Puerto de Santa María-Puerto Real

2025 hrs-2200 hrs, 20.0°C, high today was 27.8°C.

1971, 17 June, Puerto Real, from N-IV at ~N36.53761 W6.16818 to C-440 via A-408

2.4 mi. E, *Malpolon monspessulanus* DOR.

7.2 mi. E, *Malpolon monspessulanus* DOR.

8.0 mi. E, *Malpolon monspessulanus* DOR.

8.1 mi. E, *Malpolon monspessulanus* DOR.

10.4 mi. E, *Malpolon monspessulanus* DOR.

1971, 17 June, Base Naval de Rota, Vicinity of Harbor (N36.624244 W6.334138)

1900 hrs, 2 *Blanus cinereus* (CMFS 21137-21138; CM 54871-54872) collected on the Naval Base (port area) earlier this evening.

1971, 18 June, La Algaida (N36.862136 W6.302683)

1320 hrs, 27.2°C, shade.

1332 hrs, adult *Acanthodactylus erythrurus* in *Corema album*.

1335 hrs, adult *Acanthodactylus erythrurus* in *Juniperus phoenicea*.

1339 hrs, juvenile *Acanthodactylus erythrurus* in open sand in the vicinity of *Corema album*.

1342 hrs, adult *Acanthodactylus erythrurus* shot at base of *Corema album*.

1347 hrs, juvenile *Acanthodactylus erythrurus* active around *Corema album*.

1356 hrs, adult *Acanthodactylus erythrurus* shot at base of *Corema album*.

1359 hrs, adult *Acanthodactylus erythrurus* at base of *Juniperus phoenicea* (same as 1335 hrs).

1401 hrs, juvenile *Acanthodactylus erythrurus* shot at base of *Corema album*.

1407 hrs, adult *Acanthodactylus erythrurus* in *Corema album* area.

1971, 18 June, La Algaida (N36.862136 W6.302683) -2-

1409 hrs, juvenile *Acanthodactylus erythrurus* moving thru open sand. Small flies (and fleas?)

really bothersome.

1411 hrs, adult *Acanthodactylus erythrurus* in *Corema album*.

1414 hrs, juvenile *Acanthodactylus erythrurus* at base of *Corema album*.

1416 hrs, adult *Acanthodactylus erythrurus* shot in *Corema album.*

1419 hrs, adult *Acanthodactylus erythrurus* under *Juniperus phoenicea*.

1424 hrs, juvenile *Acanthodactylus erythrurus* shot beneath *Corema album*  and *Juniperus*

*phoenicea*.

1430 hrs, adult *Acanthodactylus erythrurus* in *Juniperus phoenicea*.

1432 hrs, 2 adult *Acanthodactylus erythrurus* in *Juniperus phoenicea* area.

1445 hrs, *Psammodromus algirus* in ecotonal area to N of *Corema album* area.

1447 hrs, juvenile *Acanthodactylus erythrurus* in *Juniperus phoenicea*.

1451 hrs, adult *Acanthodactylus erythrurus* in *Juniperus phoenicea*.

1453 hrs, juvenile *Acanthodactylus erythrurus* in *Juniperus phoenicea*.

1457 hrs, juvenile *Acanthodactylus erythrurus* under *Halimium halimiifolium.*

1459 hrs, adult *Acanthodactylus erythrurus* shot under *Corema album*, 1 seen.

1503 hrs, adult *Psammodromus algirus* shot at base of *Pinus pinea*.

1505 hrs, juvenile *Acanthodactylus erythrurus* in open sand.

1510 hrs, juvenile *Acanthodactylus erythrurus* shot in *Halimium halimiifolium*/*Corema album*

area.

1517 hrs, adult *Acanthodactylus erythrurus* in open shade of *Pinus pinea*.

1528 hrs, juvenile *Acanthodactylus erythrurus* in *Corema album*.

1532 hrs, adult *Acanthodactylus erythrurus* shot under *Corema album* in direct sun.

1537 hrs, sub-adult *Acanthodactylus erythrurus* shot in *Juniperus phoenicea*.

1549 hrs, adult *Acanthodactylus erythrurus* in shade of *Pinus pinea*.

1554 hrs, juvenile *Psammodromus algirus* shot in *Halimium halimiifolium.*

1602 hrs, adult *Acanthodactylus erythrurus* in shady area in the vicinity of *Corema album* .

1606 hrs, adult *Psammodromus algirus* shot in the vicinity of *Juniperus phoenicea*.

1608 hrs, juvenile *Psammodromus algirus* shot in the vicinity of *Halimium halimiifolium.*

1622 hrs, *Psammodromus algirus* in *Juniperus phoenicea*.

1626 hrs, juvenile *Acanthodactylus erythrurus* at base of *Juniperus phoenicea*.

1628 hrs, juvenile *Acanthodactylus erythrurus* in open sand.

1636 hrs, adult *Acanthodactylus erythrurus* near *Halimium halimiifolium* in sun.

1638 hrs, *Psammodromus algirus* in *Halimium halimiifolium.*

1641 hrs, juvenile *Acanthodactylus erythrurus* shot in *Halimium halimiifolium.*

1643 hrs, juvenile *Acanthodactylus erythrurus* in *Juniperus phoenicea*.

1644 hrs, 2 juvenile *Acanthodactylus erythrurus* in open sun.

1646 hrs, adult *Acanthodactylus erythrurus* in *Juniperus phoenicea*.

1648 hrs, adult *Acanthodactylus erythrurus* in open sun.

1650 hrs, juvenile *Acanthodactylus erythrurus* in open sun.

1651 hrs, juvenile *Acanthodactylus erythrurus* in open sun.

1656 hrs, juvenile *Acanthodactylus erythrurus* in open sun.

1657 hrs, juvenile *Acanthodactylus erythrurus* shot under *Corema album* .

1659 hrs, juvenile *Acanthodactylus erythrurus* in open sun.

1704 hrs, juvenile *Acanthodactylus erythrurus* in open sun.

1971, 18 June, La Algaida (N36.862136 W6.302683) -3-

1707 hrs, adult *Acanthodactylus erythrurus* in open sun.

1709 hrs, juvenile *Acanthodactylus erythrurus* shot in open sun.

1710 hrs, juvenile *Acanthodactylus erythrurus* in open sun.

1714 hrs, adult *Acanthodactylus erythrurus* in open sun.

1716 hrs, juvenile *Acanthodactylus erythrurus* in open sun.

1717 hrs, adult *Psammodromus algirus* in shade of *Pinus pinea*.

1720 hrs, juvenile *Acanthodactylus erythrurus* in open sun.

1722 hrs, juvenile *Acanthodactylus erythrurus* in shade of *Halimium halimiifolium.*

1724 hrs, adult *Acanthodactylus erythrurus* in shade of *Corema album* .

1726 hrs, 2 juvenile *Acanthodactylus erythrurus* in open sun.

1728 hrs, juvenile *Acanthodactylus erythrurus* in open sun.

1730 hrs, juvenile *Acanthodactylus erythrurus* in open sun.

1736 hrs, sub-adult *Acanthodactylus erythrurus* shot in open sun.

1738 hrs, juvenile *Acanthodactylus erythrurus* in open sun.

1740 hrs, juvenile *Acanthodactylus erythrurus* in sun under *Corema album* .

1742 hrs, juvenile *Acanthodactylus erythrurus* in open sand.

1743 hrs, juvenile *Acanthodactylus erythrurus* in open sand.

1746 hrs, juvenile *Psammodromus algirus* in open sun.

1747 hrs, juvenile *Acanthodactylus erythrurus* in open sun.

1750 hrs, 2 juvenile *Acanthodactylus erythrurus* in open sun.

1751 hrs, adult *Psammodromus algirus* in open sun.

1753 hrs, juvenile *Acanthodactylus erythrurus* in open sun.

1758 hrs, juvenile *Acanthodactylus erythrurus* in open sun.

1759 hrs, sub-adult *Psammodromus algirus* in *Corema album* along with *Acanthodactylus*

*erythrurus* in open sand.

1807 hrs, juvenile *Acanthodactylus erythrurus* in open sand.

1809 hrs, sub-adult *Psammodromus algirus* shot in open sun near *Juniperus phoenicea*.

1812 hrs, juvenile *Acanthodactylus erythrurus* in open sun in the vicinity of *Corema album* .

1814 hrs, juvenile *Acanthodactylus erythrurus* in open sun.

1971, 18 June, La Algaida Black body temperatures

|  |  |  |  |
| --- | --- | --- | --- |
| Time | Sun | Open Shade | Sky |
| 1330 hrs | 46°C | 32°C | Clear |
| 1400 hrs | 50°C | 36.5°C | Clear |
| 1428 hrs | 50.5°C | 39.5°C | Clear |
| 1500 hrs | 48°C | 39.5°C | Clear/wind |
| 1533 hrs | 48.5°C | 36.5°C | Clear |
| 1603 hrs | 45.5°C | 36°C | Clear |
| 1632 hrs | 42°C | 38°C | Clear |
| 1701 hrs | 41°C | 36°C | Clear |
| 1732 hrs | 41°C | 35.5°C | Clear |
| 1802 hrs | 41°C | 33.5°C | Clear |
| 1817 hrs | 41°C | 33.5°C | Clear |

Temperature = Black Body. Times are local.

*Acanthodactylus erythrurus* (CMFS 21139-21146[6]; CM 54873[29])

*Psammodromus algirus* (CMFS 21147-21151; CM 54874[11])

1971, 19 June, La Algaida (N36.862136 W6.302683)

0620 hrs, 14.4°C, *Psammodromus algirus* active in *Pistacia lentiscus* (may be crepuscular sp.)

0729 hrs, *Psammodromus algirus* in *Corema album* .

0757 hrs, *Psammodromus algirus* sunning *Juniperus phoenicea*.

0820 hrs, adult *Psammodromus algirus* shot while sunning under *Juniperus phoenicea*.

0825 hrs, adult *Psammodromus algirus* in open sun in *Corema album* .

0826 hrs, (~ 21.2°C) 2 juvenile *Psammodromus algirus* in open sun.

0828 hrs, *Psammodromus algirus* in open sun.

0835 hrs, sub-adult *Psammodromus algirus* shot in *Halimium halimiifolium.*

0838 hrs, juvenile *Acanthodactylus erythrurus* in sun near *Corema album* .

0844 hrs, juvenile *Acanthodactylus erythrurus* shot in open sun.

0847 hrs, adult *Acanthodactylus erythrurus*  in the vicinity of *Corema album*.

0849 hrs, 2 sub-adult *Psammodromus algirus* in open sun in the vicinity of *Corema album*.

0853 hrs, adult *Psammodromus algirus* in *Juniperus phoenicea*.

0854 hrs, adult *Acanthodactylus erythrurus* in open sun near *Juniperus phoenicea*.

0856 hrs, sub-adult *Acanthodactylus erythrurus* sunning/moving about under *Corema album*.

0907 hrs, *Psammodromus algirus* sunning near *Corema album*.

0908 hrs, (~ 23.2 °C ) juvenile *Psammodromus algirus* in open sand.

0909 hrs, adult *Acanthodactylus erythrurus* shot in open sand.

0911 hrs, adult *Acanthodactylus erythrurus* in open sand.

0912 hrs, juvenile *Acanthodactylus erythrurus* in open sand.

0914 hrs, adult *Acanthodactylus erythrurus* in open sand.

0916 hrs, 2 juvenile *Acanthodactylus erythrurus* in open sand.

0917 hrs, adult *Acanthodactylus erythrurus* in open sand.

0921 hrs, sub-adult *Acanthodactylus erythrurus* in *Corema album* .

0923 hrs, adult *Acanthodactylus erythrurus* in *Corema album*  area.

0924 hrs, juvenile *Acanthodactylus erythrurus* in *Juniperus phoenicea*.

0926 hrs, sub-adult *Acanthodactylus erythrurus* in *Corema album*.

0927 hrs, adult *Acanthodactylus erythrurus* in open sand.

0929 hrs, juvenile *Acanthodactylus erythrurus* in open sand.

0930 hrs, 2 juvenile *Acanthodactylus erythrurus* in open sand.

0932 hrs, 2 juvenile *Acanthodactylus erythrurus* in *Corema album* .

0935 hrs, adult *Psammodromus algirus* in *Juniperus phoenicea*.

0937 hrs, adult *Acanthodactylus erythrurus* in open sand, *Psammodromus algirus* shot in

*Pistacia* *lentiscus*.

0944 hrs, 24.4°C, shade.

0950 hrs, (~ 24.1°C) juvenile *Psammodromus algirus* shot from *Pinus pinea* trunk about 60 cm from ground level.

0951 hrs, adult *Acanthodactylus erythrurus* in open sand.

0958 hrs, juvenile *Acanthodactylus erythrurus* shot in open sand.

0959 hrs, juvenile *Acanthodactylus erythrurus* in open sand.

1002 hrs, juvenile *Acanthodactylus erythrurus* in open sand.

1004 hrs, juvenile *Acanthodactylus erythrurus* and adult *Acanthodactylus erythrurus* in shade of

*Pinus pinea* in *Corema album* .

1006 hrs, juvenile *Acanthodactylus erythrurus* in open sun.

1008 hrs, juvenile *Acanthodactylus erythrurus* in *Halimium halimiifolium.*

1971, 19 June, La Algaida (N36.862136 W6.302683) -2-

1010 hrs, adult *Acanthodactylus erythrurus* in *Corema album* .

1012 hrs, adult *Acanthodactylus erythrurus* and juvenile *Acanthodactylus erythrurus* in open

sand.

1013 hrs, *Psammodromus algirus* in *Juniperus phoenicea*.

1014 hrs, adult *Acanthodactylus erythrurus* foraging. Stays in sun 2-4 seconds, moves to shade,

back to sun, etc.

1016 hrs, adult *Acanthodactylus erythrurus* in open sun in the vicinity of *Juniperus phoenicea*.

1017 hrs, 3 juvenile *Acanthodactylus erythrurus* in open sun.

1020 hrs, adult *Psammodromus algirus* in *Juniperus phoenicea*.

1025 hrs, juvenile *Acanthodactylus erythrurus* in open sand.

1026 hrs, juvenile *Acanthodactylus erythrurus* in open sand.

1030 hrs, juvenile *Acanthodactylus erythrurus* in open sand.

1032 hrs, juvenile *Acanthodactylus erythrurus* in open sand.

1033 hrs, adult *Acanthodactylus erythrurus* and juvenile *Acanthodactylus erythrurus* in *Corema*

*album* .

1034 hrs, juvenile *Acanthodactylus erythrurus* in open sand.

1035 hrs, adult *Acanthodactylus erythrurus* in *Corema album*.

1037 hrs, adult *Acanthodactylus erythrurus* in *Corema album*.

1040 hrs, juvenile *Acanthodactylus erythrurus* in open sand.

1041 hrs, juvenile *Acanthodactylus erythrurus* in open sand.

1042 hrs, juvenile *Acanthodactylus erythrurus* in open sand.

1045 hrs, adult *Acanthodactylus erythrurus* shot in Juncus acutus area/open sun.

1048 hrs, sub-adult *Acanthodactylus erythrurus* shot in open sun, other specimen seen.

1050 hrs, juvenile *Acanthodactylus erythrurus* in *Corema album*.

1051 hrs, juvenile *Acanthodactylus erythrurus* in *Corema album*.

1052 hrs, adult *Acanthodactylus erythrurus* in *Corema album*.

1054 hrs, juvenile *Acanthodactylus erythrurus* in open sand.

1055 hrs, adult *Acanthodactylus erythrurus* in open sand.

1057 hrs, juvenile *Acanthodactylus erythrurus* in *Juncus acutus*.

1059 hrs, 3 juvenile *Acanthodactylus erythrurus* and 1 adult *Acanthodactylus erythrurus* in open

sun/sand in the vicinity of *Corema album*.

1105 hrs, juvenile *Acanthodactylus erythrurus* in open sand.

1108 hrs, juvenile *Acanthodactylus erythrurus* shot under *Juniperus phoenicea* in open sun.

1111 hrs, adult *Acanthodactylus erythrurus* in open sand.

1112 hrs, *Psammodromus algirus* in *Juniperus phoenicea*.

1115 hrs, adult *Acanthodactylus erythrurus* in *Juniperus phoenicea*.

1118 hrs, adult *Acanthodactylus erythrurus* in open sun.

1121 hrs, adult *Acanthodactylus erythrurus* in *Corema album*

1123 hrs, 2 juvenile *Acanthodactylus erythrurus* in *Corema album*.

1125 hrs, sub-adult *Acanthodactylus erythrurus* shot in open sun.

1129 hrs, juvenile *Acanthodactylus erythrurus* in *Corema album*.

1130 hrs, juvenile *Acanthodactylus erythrurus* in open sand.

1131 hrs, 2 juvenile *Acanthodactylus erythrurus* foraging in open sand area.

1133 hrs, 2 juvenile *Acanthodactylus erythrurus* in *Corema album*.

1134 hrs, juvenile *Acanthodactylus erythrurus* in *Corema album*.

1971, 19 June, La Algaida (N36.862136 W6.302683) -3-

1136 hrs, 2 juvenile *Acanthodactylus erythrurus* in *Corema album*.

1140 hrs, adult *Acanthodactylus erythrurus* in shade of *Pinus pinea* with *Corema album*.

1142 hrs, juvenile *Acanthodactylus erythrurus* in open sand.

1144 hrs, juvenile *Acanthodactylus erythrurus* shot in *Juniperus phoenicea*.

1146 hrs, juvenile *Acanthodactylus erythrurus* in open sun, ran to *Corema album*.

1147 hrs, sub-adult *Acanthodactylus erythrurus* under *Juniperus phoenicea*.

1151 hrs, adult *Acanthodactylus erythrurus* shot in *Corema album*.

1155 hrs, adult *Acanthodactylus erythrurus* in *Juniperus phoenicea*.

1157 hrs, adult *Psammodromus algirus* in *Halimium halimiifolium*, juvenile *Acanthodactylus*

*erythrurus* in *Corema album*.

1204 hrs, adult *Acanthodactylus erythrurus* in *Corema album* , adult *Psammodromus algirus* in

*Halimium halimiifolium*.

1205 hrs, *Acanthodactylus erythrurus* in ecotonal area (N) in *Juniperus phoenicea*/*Pistacia*

*lentiscus* combination.

1208 hrs, 27.2°C, shade.

1220 hrs, adult *Acanthodactylus erythrurus* in *Juniperus phoenicea*.

1221 hrs, juvenile *Acanthodactylus erythrurus* in *Juniperus phoenicea*, juvenile *Psammodromus*

*algirus* in shade of *Pistacia*.

1223 hrs, juvenile *Acanthodactylus erythrurus* in *Halimium halimiifolium.*

1236 hrs, juvenile *Acanthodactylus erythrurus* shot in *Halimium halimiifolium.*

1237 hrs, juvenile *Acanthodactylus erythrurus* in open sand.

1240 hrs, *Psammodromus algirus* in *Corema album.*

1242 hrs, juvenile *Acanthodactylus erythrurus* in *Juniperus phoenicea*.

1247 hrs, juvenile *Acanthodactylus erythrurus* in *Juncus acutus*.

1251 hrs, juvenile *Acanthodactylus erythrurus* in *Corema album*.

1253 hrs, juvenile *Acanthodactylus erythrurus* shot in *Juniperus phoenicea*.

1256 hrs, sub-adult *Acanthodactylus erythrurus* in *Corema album*.

1258 hrs, adult *Acanthodactylus erythrurus* shot in *Cistus crispus*, *Juniperus phoenicea*, and

*Corema album* under shade of *Pinus pinea*; specimen has bifurcated regenerated tail.

1305 hrs, 2 juvenile *Acanthodactylus erythrurus* in *Corema album*.

1308 hrs, juvenile *Acanthodactylus erythrurus* in *Corema album*.

1309 hrs, adult *Acanthodactylus erythrurus* shot in *Corema album*.

1314 hrs, juvenile *Acanthodactylus erythrurus* shot in *Corema album*.

1316 hrs, adult *Acanthodactylus erythrurus* in *Juniperus phoenicea*.

1317 hrs, adult *Psammodromus algirus* in *Halimium halimiifolium.*

1320 hrs, adult *Acanthodactylus erythrurus* shot in *Halimium halimiifolium* in shade of *Pinus*

*pinea*.

1324 hrs, adult *Acanthodactylus erythrurus* shot under *Corema album*.

1326 hrs, adult *Psammodromus algirus* shot at base of Pinus pinea in *Juniperus phoenicea*.

1336 hrs, 30.6°C, shade.

1971, 19 June, La Algaida Black body temperatures

|  |  |  |  |
| --- | --- | --- | --- |
| Time | Sun | Open Shade | Sky |
| 0700 hrs | 20°C | 18.5°C | Clear |
| 0730 hrs | 20°C | 18.5°C | Clear |
|  |  |  |  |
| 0800 hrs | 27.5°C | 21.5°C | Clear |
| 0835 hrs | 30°C | 22.5°C | Clear/breeze |
| 0900 hrs | 34°C | 24°C | Clear/breeze |
| 0930 hrs | 37.5°C | 26°C | Clear/breeze |
| 1000 hrs | 38°C | 28.5°C | Clear/breeze |
| 1029 hrs | 41.5°C | 29°C | Clear/breeze |
| 1103 hrs | 42°C | 32°C | Clear/breeze |
| 1128 hrs | 42°C | 32°C | Clear/breeze |
| 1200 hrs | 45°C | 33.5°C | Clear/breeze |
| 1227 hrs | 47.5°C | 34°C | Clear/breeze |
| 1300 hrs | 54°C | 32.5°C | Clear/breeze |
| 1330 hrs | 53.5°C | 34°C | Clear/breeze |

Temperatures = black body, times are local.

*Psammodromus algirus* (CMFS 21152-21157;CM 54874[11]).

*Acanthodactylus erythrurus* (CMFS 21158-21165[9];CM 54873[29]).

1971, 19 June, Vejer de la Frontera (N36.26089 W5.96476), N-340

1.5 mi. W, 1628 hrs, 27.8°C, *Malpolon monspessulanus* DOR.

1971, 19 June, Facinas (N36.14768 W5.70281), CA-221

Very windy conditions.

5.5 mi. N, 1710 hrs, 21.7°C, juvenile *Timon lepidus* (CMFS 21173; CM 54879) shot.

5.6 mi. N, 1717 hrs, 23.3°C, *Tarentola mauritanica* (CMFS 21178-21180; CM 54884-54886)

collected, 2 others seen on bridge*.*

5.6 mi. N, 1717 hrs, 23.3°C, *Timon lepidus* seen on bridge.

6.2 mi. N, 1730 hrs, 21.1°C, 2 *Tarentola mauritanica* (CMFS 21178-21180; CM 54884-54886)

seen and one captured (also photographed in lab).

6.2 mi. N, 1730 hrs, 21.1°C, *Hemidactylus turcicus* (CMFS 21181; CM 54887) collected under a

rock along a bridge abutment. Apparently *Hemidactylus* and *Tarentola* cohabit.

6.3 mi. N, 1745 hrs, 22.2°C, 2 *Tarentola mauritanica* seen and one collected

6.3 mi. N, 1745 hrs, 22.2°C, *Podarcis vaucheri* (CMFS 21175-21177; CM 54881-54883)

collected.

6.3 mi. N, 1745 hrs, 22.2°C, Last time a *Pelophylax perezi* collected here in a deep sink hole. Water level is now very low and there is no water feeding the hole.

6.5 mi. N, 1751 hrs, 21.1°C, *Tarentola mauritanica* seen.

6.5 mi. N, 1751 hrs, 21.1°C, *Podarcis vaucheri* shot.

6.8 mi. N, 1801 hrs, 20.6°C, *Tarentola mauritanica* on a bridge abutment.

1971, 19 June, Facinas (N36.14768 W5.70281), CA-221 -2-

6.9 mi. N, 1807 hrs, 18.9°C, *Podarcis vaucheri*.

6.9 mi. N, 1807 hrs, 18.9°C, *Timon lepidus.*

1971, 19 June, Facinas (N36.14768 W5.70281), CA-221 -2-

7.0 mi. N, 1810 hrs, 19.4°C, *Tarentola mauritanica* on a culvert.

7.0 mi. N, 1810 hrs, 19.4°C, *Timon lepidus* on a culvert.

7.2 mi. N, 1822 hrs, 18.9°C, *Pelophylax perezi* (CMFS 21174; CM 54880) collected under a

rock.

7.2 mi. N, 1822 hrs, 18.9°C, 1 *Podarcis vaucheri* (CMFS 21175-21177; CM 54881-54883) shot,

1 specimen seen.

8.7 mi. N, 1833 hrs, 17.8°C, *Timon lepidus* on a rock.

9.2 mi. N, 1835 hrs, 18.3°C, *Malpolon monspessulanus* (63-66 cm TL) DOR.

9.4 mi. N, 1838 hrs, 18.9°C, *Podarcis vaucheri* on bridge.

1971, 19 June, Casas del Castaño (N36.30792 W5.59662), C-440

1.6 mi. W, 2007 hrs, 17.8°C, *Timon lepidus* DOR.

5.3 mi. W, 2015 hrs, 20.0°C, young *Malpolon monspessulanus* (CMFS 21166; CM 54875) DOR.

12.6 mi. WNW, 2025 hrs, 20.6°C, juvenile *Malpolon monspessulanus* DOR.

1971, 19 June, Benalup de Sidonia (N36.34812 W5.81583), A-2228, S to A-396 (Vejer)

4.1 mi. S, 2055 hrs, 18.9°C, *Malpolon monspessulanus* (N36.32335 W5.87636) (±1 m) DOR.

2115 hrs, end survey.

1971, 19 June, Base Naval de Rota, General (Benchmark) (N36.637383, W6.346438, 20 M) M. Moya collection.

*Natrix maura* (CMFS 21167,21168, and 21170; CM 54876[3]). NOTE CMFS 21169, CM54876-3 is missing, October 2017.

*Timon lepidus* (CMFS 21171; CM 54877).

*Chalcides striatus* (CMFS 21172; CM 54878).

1971, 28 June, Algeciras, 4.3 mi N ( N-340, N36.17725 W5.45076, 5 M).

*Natrix maura* (CMFS 22001, CM 55265). A.O.R.

Provincia de Sevilla

1971, 28 June, Fuentes de Andalucía (Benchmark)(N37.46528 W5.33969, 162 M),Villa

Carmona. Miguel Moya collection.

*Pelophylax perezi* (CMFS 22445; CM 55273).

*Pleurodeles waltl* (CMFS 22446-22448; CM 55274-55276).

*Natrix maura*  (CMFS 22449-22450; CM 55277-55278).

### **1971, 28 June, La Campana (Benchmark) (N37.56874 W5.42667; Google Earth), 138 m**

Miguel Moya collection.

*Mauremys leprosa* (CMFS 21194-21198; CM 55343-55347).

-------------------------------------------MOROCCO TRIP (Not transcribed)----------------

Provincia de Cádiz

1971, 15 July, Base Naval de Rota, General (~N 36.627812 W6.331415) M. Moya collection.

*Malpolon monspessulanus* (CMFS 22444; CM 55272).

Provincia de Sevilla

### **1971, 17 July, Fuentes de Andalucía (Benchmark) (N37.46528 W5.33969, 162 M; Google Earth), Villa Carmona.** **Miguel Moya collection.**

*Pleurodeles waltl* (CMFS 22430-22438; CM 55266[9]), from a well.

*Natrix maura*  (CMFS 21199; CM 55348).

|  |  |  |
| --- | --- | --- |
| N37.46528 W5.33969, 162 M |  | Sevilla: Fuente de Andalucía, Villa Carmona |

*Hyla meridionalis* (CMFS 22439-22443; CM 55269-55271). (see catalogue for reproductive

notes).

Provincia de Cádiz

1971, 31 July, Base Naval de Rota, General (~N 36.627812 W6.331415) Miguel Moya collection.

*Timon lepidus* (CMFS 21200; CM 55349).

1971, 31 July, La Algaida (N36.862136 W6.302683)

1050 hrs, 31.1°C.

1102 hrs, adult *Acanthodactylus erythrurus* in *Juniperus phoenicea*.

1105 hrs, adult *Acanthodactylus erythrurus* in *Corema album*.

1108 hrs, adult *Acanthodactylus erythrurus* in *Corema album*.

1112 hrs, 2 adult *Acanthodactylus erythrurus* active in open road/*Corema album*.

1117 hrs, juvenile (sub-adult?) *Acanthodactylus erythrurus* caught in *Corema album*.

1120 hrs, juvenile *Acanthodactylus erythrurus* in *Corema album*.

1122 hrs, adult *Acanthodactylus erythrurus* in *Corema album*.

1125 hrs, adult *Acanthodactylus erythrurus* in *Corema album*.

1129 hrs, adult *Acanthodactylus erythrurus* in *Juniperus phoenicea*/*Corema album*.

1138 hrs, adult *Acanthodactylus erythrurus* in *Juniperus phoenicea*.

1141 hrs, adult *Acanthodactylus erythrurus* in *Corema album*.

(This time of day the species appears to stay in sheltered areas and is extremely wary.)

1151 hrs, adult *Psammodromus algirus* taken from *Juniperus phoenicea*.

1155 hrs, adult *Acanthodactylus erythrurus* in *Juniperus phoenicea*.

1158 hrs, adult *Acanthodactylus erythrurus* in *Corema album* /*Juniperus phoenicea*.

1204 hrs, adult *Acanthodactylus erythrurus* in *Juniperus phoenicea*.

1204 hrs-1229 hrs, lunch. (calculated 1204 hrs at 32.2°C)

1238 hrs, adult *Acanthodactylus erythrurus* in *Juniperus phoenicea*/*Pistacia lentiscus*.

1302 hrs, adult *Acanthodactylus erythrurus* in *Corema album*.

1453 hrs, 35.6°C.

1517 hrs, *Psammodromus algirus* caught in shade of *Corema album*.

1526 hrs, *Psammodromus algirus* caught in shade of *Corema album.*

1557 hrs, 35.0°C.

1621 hrs, adult *Acanthodactylus erythrurus* in *Corema album*  shade.

1971, 31 July, La Algaida (N36.862136 W6.302683) -2-

1630 hrs – (calculated at 34.67°C)

1632 hrs, adult *Acanthodactylus erythrurus* in *Corema album*.

1638 hrs, adult *Acanthodactylus erythrurus* in *Corema album*.

1645 hrs, *Psammodromus algirus* active in *Corema album*.

1656 hrs, *Psammodromus algirus* in *Juniperus phoenicea* (shade).

1700 hrs, 34.4°C, shade.

1720 hrs, adult *Acanthodactylus erythrurus* in *Juniperus phoenicea*.

1723 hrs, adult *Acanthodactylus erythrurus* in open sand.

1730 hrs – (calculated at 34.1°C)

1740 hrs, adult *Acanthodactylus erythrurus* in *Corema album*.

1751 hrs, adult *Acanthodactylus erythrurus* in *Corema album*.

1755 hrs, adult *Acanthodactylus erythrurus* in *Corema album*.

1759 hrs, adult *Acanthodactylus erythrurus* in *Corema album*.

1800 hrs – (calculated at 33.8°C)

1805 hrs, adult *Acanthodactylus erythrurus* in *Juniperus phoenicea*.

1810 hrs, adult *Acanthodactylus erythrurus* in *Juniperus phoenicea*.

1826 hrs, adult *Acanthodactylus erythrurus* in sun under log in sand. Sun coming from directly

in front (see illustration [poor] ).

1828 hrs, adult *Acanthodactylus erythrurus* caught in *Corema album*, another seen.

1830 hrs – (calculated at 33.5°C)

1834 hrs, adult *Acanthodactylus erythrurus* in *Juniperus phoenicea*.

1840 hrs, adult *Acanthodactylus erythrurus* caught in *Corema album*.

1842 hrs, adult *Acanthodactylus erythrurus* in *Corema album*.

1849 hrs, – (calculated at 33.5°C), adult *Acanthodactylus erythrurus* in *Corema album*.

*Psammodromus algirus* (CMFS 21185-21187; CM 55334- 55336).

*Acanthodactylus erythrurus* (CMFS 21188-21190; CM 55337-55339).

1971, 31 July, La Algaida Black body temperatures

|  |  |  |  |
| --- | --- | --- | --- |
| Time | Sun | Open Shade | Sky |
| 1100 hrs | 53°C | 35.5°C | Slight breeze, clear |
| 1135 hrs | 57.5°C | 38°C | Slight breeze, clear |
| 1200 hrs | 57.5°C | 41°C | Slight breeze, clear |
| 1230 hrs | 56°C | 42°C | Slight breeze, clear |
| 1302 hrs | 55.5°C | 39.5°C | Slight breeze, clear |
| 1328 hrs | 55.5°C | 42°C | Slight breeze, clear |
| 1359 hrs | 53°C | 43.5°C | Slight breeze, clear |
| 1428 hrs | 54°C | 44°C | Slight breeze, clear |
| 1500 hrs | 53°C | 43°C | Slight breeze, clear |
| 1535 hrs | 52°C | 41°C | Slight breeze, clear |
| 1604 hrs | 50°C | 40.5°C | Slight breeze, clear |
| 1634 hrs | 47°C | 40°C | Slight breeze, clear |
| 1654 hrs | 46°C | 39.5°C | Slight breeze, clear |
| 1726 hrs | 49.5°C | 38.5°C | Slight breeze, clear |
| 1800 hrs | 42.5°C | 38°C | Slight breeze, clear |
| 1834 hrs | 42.5°C | 36°C | Slight breeze, clear |
| 1900 hrs | 35°C | 35°C | Slight breeze, clear |

1971, 01 August, La Algaida (N36.862136 W6.302683)

0600 hrs, 16.7°C.

0700 hrs, start.

0745 hrs, *Psammodromus algirus* sunning in *Juniperus phoenicea*.

0752 hrs, *Psammodromus algirus* sunning in *Juniperus phoenicea*.

0802 hrs, *Psammodromus algirus* sunning in *Halimium halimiifolium* in periphery.

0807 hrs, *Psammodromus algirus* sunning in *Pistacia lentiscus* in ecotonal (N) area.

0813 hrs, *Psammodromus algirus* sunning in *Juniperus phoenicea*.

0831 hrs, *Psammodromus algirus* sunning in *Juniperus phoenicea*.

0843 hrs, *Psammodromus algirus* sunning in open sand near *Halimium halimiifolium*, *Juniperus*

*phoenicea.*

0852 hrs, adult *Acanthodactylus erythrurus* sunning in *Juniperus phoenicea* area.

0857 hrs, *Psammodromus algirus* in *Corema album*.

0858 hrs, 2 adult *Acanthodactylus erythrurus* in open sand in the vicinity of *Halimium*

*halimiifolium* and *Juniperus phoenicea*.

0907 hrs, 2 adult *Acanthodactylus erythrurus* in *Corema album*.

0915 hrs, *Acanthodactylus erythrurus* hatchling (of 1971) captured in peripheral area where

brush is more dense than normal.

0921 hrs, adult *Acanthodactylus erythrurus* sunning in *Corema album* area.

0926 hrs, adult *Acanthodactylus erythrurus* sunning in *Corema album* .

0934 hrs, adult *Acanthodactylus erythrurus* in open sand; when it ran into *Corema album* it

apparently disturbed a *Psammodromus algirus* that appeared to chase the *Acanthodactylus erythrurus* out of the area. *Psammodromus algirus* ran along

the right rear quarter of the *Acanthodactylus erythrurus* nudging (I think) it with its nose.

*Psammodromus* exerts species dominance over *Acanthodactylus*??

0943 hrs, adult *Acanthodactylus erythrurus* sunning, later ran into *Corema album*.

0945 hrs, *Psammodromus algirus* in *Corema album*, adult *Acanthodactylus erythrurus* earlier in

same area in open sun.

0950 hrs, adult *Acanthodactylus erythrurus* in open sun in the vicinity of *Corema album*.

0955 hrs, adult *Acanthodactylus erythrurus* caught in open sand.

1002 hrs, adult *Acanthodactylus erythrurus* in open sand/*Halimium halimiifolium* area.

1004 hrs, *Acanthodactylus erythrurus* in *Halimium halimiifolium* in sun.

1009 hrs, *Acanthodactylus erythrurus* hatchling in open sand with *Halimium halimiifolium.*

1012 hrs, adult *Acanthodactylus erythrurus* in open sand near *Corema album*.

1013 hrs, adult *Acanthodactylus erythrurus* in *Corema album*.

1017 hrs, adult *Acanthodactylus erythrurus* in open sand in the vicinity of *Corema album*.

1020 hrs, adult *Acanthodactylus erythrurus* in *Corema album*.

1023 hrs, *Psammodromus algirus* in *Juniperus phoenicea*.

1025 hrs, adult *Acanthodactylus erythrurus* in *Corema album*.

1027 hrs, juvenile *Acanthodactylus erythrurus* in *Juniperus phoenicea*.

1028 hrs, adult *Acanthodactylus erythrurus* in *Corema album*.

1037 hrs, 2 adult *Acanthodactylus erythrurus* in *Corema album*.

1042 hrs, 2 adult *Acanthodactylus erythrurus* in open sun in the vicinity of *Juniperus phoenicea*.

1044 hrs, adult *Acanthodactylus erythrurus* in open sand in the vicinity of *Juniperus phoenicea*.

1047 hrs, adult *Acanthodactylus erythrurus* in open sand in the vicinity of *Corema album* .

1050 hrs, adult *Acanthodactylus erythrurus* in *Juniperus phoenicea*.

1971, 01 August, La Algaida -2-

1052 hrs, *Acanthodactylus erythrurus* hatchling in *Corema album*.

1053 hrs, adult *Acanthodactylus erythrurus* in *Juniperus phoenicea*.

1058 hrs, adult *Acanthodactylus erythrurus* in open sand in the vicinity of *Juniperus phoenicea*.

1059 hrs, 2 adult *Acanthodactylus erythrurus* in open sand in the vicinity of *Corema album*.

1100 hrs, end.

1136 hrs, 24.4°C, shade.

All specimens not preserved were sent to F. H. Pough at Cornell University for metabolic work.

See: *Pough and Busack, 1978. Journal of Thermal Biology, 3:203-205.*

*Acanthodactylus erythrurus* (CMFS 21191-21192; CM 55340-55341).

1971, 01 August, La Algaida Black body temperatures

|  |  |  |  |
| --- | --- | --- | --- |
| Time | Sun | Open Shade | Sky |
| 0700 hrs | 19.5°C | 21.5°C | Clear, breeze |
| 0730 hrs | 25°C | 22°C | Clear, breeze |
| 0800 hrs | 32.5°C | 23°C | Clear, still |
| 0834 hrs | 36.5°C | 25°C | Clear, breeze |
| 0908 hrs | 45°C | 25°C | Clear, breeze |
| 0937 hrs | 45°C | 27°C | Clear, breeze |
| 1000 hrs | 51°C | 28°C | Clear, breeze |
| 1030 hrs | 52°C | 29°C | Clear, breeze |
| 1101 hrs | 54°C | 32°C | Clear, breeze |

1971, 01 August, Base Naval de Rota, General (~N 36.627812 W6.331415), *Chamaeleo chamaeleon* (CMFS 21193:CM 55342) DOR.

1971, 04 August, Base Naval de Rota, General (~N 36.627812 W6.331415), *Hemorrhois hippocrepis*  (CMFS 22452; CM 55280) donated by a group of men from Air Terminal area.

1971, 07 August, Base Naval de Rota, General (Benchmark)(N36.637383,W6.346438, 20 M), *Natrix maura* (CMFS 22451; CM 55279) donated by Miguel Moya.

1971, 07 August, Jerez de la Frontera, Alcazar (N36.68138 W6.14054)

*Podarcis vaucheri* (CMFS 22472; CM 55300) donated by Lt. Jerry Thomas.

1971, 08 August, Facinas (N36.14768 W5.70281), CA-221

Early, severe thunderstorms.

5.4 mi. N, 1938 hrs, 23.3°C, *Tarentola mauritanica* (CMFS 22453-22454; CM 55281-55282)

collected from side of bridge.

6.4 mi. N, 1948 hrs, 22.2°C, *Tarentola mauritanica* (CMFS 22453-22454; CM 55281-55282)

shot from a retaining wall.

13.3 mi. N, 2054 hrs, 18.3°C, *Bufo spinosus* (CMFS 22455; CM 55283) AOR.

1971, 08 August, Casas del Castaño, 6.4 mi N on C-440

*Natrix maura* (CMFS 22456, CM 55284) D.O.R.

1971, 08 August, Los Barrios (N36.18209 W5.48920), C-440 (1969-1972)

5.8 mi. W, 2104 hrs, 18.9°C, *Bufo spinosus* (CMFS 22462-22465; CM 55290-55293) AOR.

6.8 mi. W, 2107 hrs, 18.3°C, *Bufo spinosus* (CMFS 22462-22465; CM 55290-55293) AOR.; this

specimen has an extremely red dorsum.

8.9 mi. W, 2114 hrs, 17.8°C, *Bufo spinosus* (CMFS 22462-22465; CM 55290-55293) AOR.

10.4 mi. W, 2120 hrs, 17.8°C, *Malpolon monspessulanus* DOR.

13.7 mi. W, 2130 hrs, 18.3°C, *Pelophylax perezi* (CMFS 22467-22468; CM 55295-55296) AOR.

13.9 mi. W, 2132 hrs, 17.8°C, *Pelophylax perezi* (CMFS 22467-22468; CM 55295-55296) AOR.

15.4 mi. W, 2134 hrs, 17.2°C, *Bufo spinosus* (CMFS 22462-22465; CM 55290-55293) red

dorsum. AOR.

1971, 08 August, Casas del Castaño (N36.30792 W5.59662), C-440

6.4 mi. W, 2157 hrs, 19.4°C, *Pelophylax perezi*(CMFS 22467-22468;CM 55295-55296).

6.4 mi. W, 2157 hrs, 19.4°C, *Natrix maura* DOR.

7.1 mi. W, 2200 hrs, 18.3°C, *Triturus pygmaeus* (CMFS 22461; CM 55289) AOR.

7.2 mi. W, 2204 hrs, 18.3°C, *Pleurodeles waltl*  (CMFS 22466; CM 55294).

7.2 mi. W, 2204 hrs, 18.3°C, juvenile *Pelobates cultripes* (CMFS 22460; CM 55288) AOR.

13.1 mi. W, 2221 hrs, 18.9°C, 2 *Hyla meridionalis* (CMFS 22457-22459; CM 55285-55287)

AOR.

13.3 mi. W, 2224 hrs, 18.9°C, *Hyla meridionalis* (CMFS 22457-22459; CM 55285-55287)

AOR.

1971, 08 August, Benalup de Sidonia (N36.44740 W5.74818), A-2228 to C-440 intersection

9.0 mi. N, 2237 hrs, 20.0°C, *Hyla meridionalis*(CMFS 22471; CM 55297-55298) AOR.

6.6 mi. N, 2246 hrs, 18.3°C, *Pelophylax perezi*(CMFS 22469-22470; CM 55297-55298) AOR.

6.0 mi. N, 2300 hrs, 18.3°C, large *Pelophylax perezi*(CMFS 22469-22470; CM 55297-55298)

AOR.

2400 hrs, end survey.

1971, 09 August, Base Naval de Rota, General (~N 36.627812 W6.331415)

*Chamaeleo chamaeleon* (CMFS 22473; CM 55301). Donation.

1971, 10 August, Rota, beach area

1900 hrs-1950 hrs, 25.6°C, nothing seen.

1971, 10 August, Puerto Real, from N-IV at ~N36.53761 W6.16818 to C-440 via A-408

10.5 mi. E, 2100 hrs, 18.9°C, *Pelophylax perezi* (CMFS 22475; CM 55303) AOR.

1971, 13 August, La Algaida (N36.862136 W6.302683)

1242 hrs, 33.3°C.

1245 hrs-1300 hrs, 3 adult *Acanthodactylus erythrurus* in peripheral area.

1304 hrs, adult *Acanthodactylus erythrurus* in *Juniperus phoenicea*.

1312 hrs, adult *Psammodromus algirus* in *Corema album*.

1314 hrs, adult *Psammodromus algirus* in *Corema album*.

1316 hrs, adult *Acanthodactylus erythrurus* in *Corema album*.

1971, 13 August, La Algaida (N36.862136 W6.302683) -2-

1318 hrs, 2 adult *Acanthodactylus erythrurus* seen, 1 shot in shade of *Juniperus phoenicea*.

1321 hrs, adult *Acanthodactylus erythrurus* shot in *Corema album* /Pinus pinea area.

1323 hrs, adult *Acanthodactylus erythrurus* in *Corema album* in shade.

1327 hrs, adult *Acanthodactylus erythrurus* in *Corema album*.

3030 hrs, (calculated 34.0°C)

1333 hrs, adult *Acanthodactylus erythrurus* in *Halimium halimiifolium*/*Juniperus*

*phoenicea*.

1337 hrs, adult *Acanthodactylus erythrurus* shot in *Corema album*.

1345 hrs, adult *Acanthodactylus erythrurus* in *Corema album*.

1348 hrs, adult *Acanthodactylus erythrurus* shot in *Corema album*.

1355 hrs, adult *Acanthodactylus erythrurus* shot in *Juniperus phoenicea.*

1405 hrs, adult *Acanthodactylus erythrurus* shot in *Corema album*.

1408 hrs, adult *Acanthodactylus erythrurus* in *Corema album*.

1410 hrs, adult *Psammodromus algirus* on base of *Pinus pinea* with *Juniperus phoenicea*.

1417 hrs, sub-adult *Acanthodactylus erythrurus* shot in *Juniperus phoenicea*.

1428 hrs, adult *Acanthodactylus erythrurus* shot in *Corema album*.

1437 hrs, 35.0°C.

1451 hrs, *Psammodromus algirus* in peripheral area/*Cistus crispus*.

1455 hrs, adult *Acanthodactylus erythrurus* shot in *Corema album*.

1457 hrs, flies at pest proportions.

1502 hrs, adult *Acanthodactylus erythrurus* shot in *Juniperus phoenicea*.

1507 hrs, adult *Acanthodactylus erythrurus* in *Corema album*.

1515 hrs, sub-adult *Timon lepidus* under *Juniperus phoenicea*.

1520 hrs, adult *Psammodromus algirus* in *Juniperus phoenicea*.

1522 hrs, (calculated 35.5°C)

1523 hrs, adult *Acanthodactylus erythrurus* in *Corema album*.

1536 hrs, adult *Acanthodactylus erythrurus* shot in open sand/pine needles in shade.

1539 hrs, adult *Acanthodactylus erythrurus* in sun in open sand.

1546 hrs, adult *Acanthodactylus erythrurus* in *Corema album*.

1550 hrs, (calculated 35.3°C)adult *Acanthodactylus erythrurus* in *Corema album*.

1552 hrs, adult *Acanthodactylus erythrurus* in *Corema album*.

1555 hrs, adult *Acanthodactylus erythrurus* in *Corema album*, adult *Psammodromus algirus*

shot in *Corema album*.

1558 hrs, adult *Acanthodactylus erythrurus* shot in *Halimium halimiifolium*.

1608 hrs, 30.6°C.

1618 hrs, juvenile *Acanthodactylus erythrurus* in peripheral area of *Halimium halimiifolium*.

1622 hrs, 2 adult *Acanthodactylus erythrurus* in *Pistacia lentiscus* of N periphery.

1624 hrs, adult *Psammodromus algirus* in *Cistus crispus* of N periphery.

1631 hrs, adult *Acanthodactylus erythrurus* in *Corema album* /*Juniperus phoenicea*

combination.

1635 hrs, adult *Acanthodactylus erythrurus* shot in *Corema album*.

1637 hrs, adult *Acanthodactylus erythrurus* in *Juniperus phoenicea*.

1639 hrs, adult *Acanthodactylus erythrurus* shot in *Halimium halimiifolium*/*Juncus acutus*.

1644 hrs, adult *Acanthodactylus erythrurus* in *Corema album*  after disturbed, was sunning in

open sand.

1648 hrs, (calculated 30.1°C) adult *Acanthodactylus erythrurus* shot in *Corema album* while sunning.

1971, 13 August, La Algaida -3-

1652 hrs, juvenile *Acanthodactylus erythrurus* in *Corema album* .

1656 hrs, adult *Acanthodactylus erythrurus* sunning in open sand.

1703 hrs, adult *Acanthodactylus erythrurus* shot while sunning.

1705 hrs, adult *Acanthodactylus erythrurus* sunning in open sand.

1707 hrs, adult *Acanthodactylus erythrurus* shot in *Juniperus phoenicea*.

1709 hrs, adult *Acanthodactylus erythrurus* in *Corema album* .

1714 hrs, sub-adult (?) *Acanthodactylus erythrurus* shot while sunning.

1721 hrs, adult *Acanthodactylus erythrurus* in open sun.

1723 hrs, juvenile *Acanthodactylus erythrurus* in open sun in area of *Halimium halimiifolium*

and *Juniperus phoenicea*.

1725 hrs, juvenile *Acanthodactylus erythrurus* in *Corema album* .

1727 hrs, juvenile *Acanthodactylus erythrurus* in *Halimium halimiifolium*/open sun.

1728 hrs, (calculated at 27.6°C) juvenile *Psammodromus algirus* in open sun/*Juniperus phoenicea*.

1735 hrs, juvenile *Acanthodactylus erythrurus* in open sand.

1745 hrs, juvenile *Acanthodactylus erythrurus* in open sun.

1752 hrs, adult *Acanthodactylus erythrurus* shot in *Juniperus phoenicea*.

1755 hrs, juvenile *Acanthodactylus erythrurus* in open sun.

1756 hrs, adult *Acanthodactylus erythrurus* in open sun.

1801 hrs, sub-adult *Acanthodactylus erythrurus* shot in open sun, was originally in rabbit hole

1816 hrs, adult *Acanthodactylus erythrurus* in *Corema album*.

1821 hrs, adult *Acanthodactylus erythrurus* shot under *Corema album*.

1826 hrs, juvenile *Acanthodactylus erythrurus* in open sun.

1828 hrs, adult *Acanthodactylus erythrurus* shot in *Halimium halimiifolium*/open sun.

1843 hrs, adult *Acanthodactylus erythrurus* shot in open sun near *Corema album* .

1845 hrs, juvenile *Acanthodactylus erythrurus* in *Corema album* /open sun.

1848 hrs, (calculated at 24.6°C), adult *Acanthodactylus erythrurus* shot in sun under *Juniperus phoenicea*.

*Psammodromus algirus* (CMFS 22476; CM 55304).

*Acanthodactylus erythrurus* (CMFS 22477-22500; CM 55305-55328).

1971, 13 August, La Algaida Black Body Temperatures

|  |  |  |  |
| --- | --- | --- | --- |
| Time | Sun | Open Shade | Sky |
| 1300 hrs | 55°C | 34.5°C | Haze: sun |
| 1330 hrs | 52.5°C | 37°C | Clear, breeze |
| 1359 hrs | 54°C | 38.5°C | Clear, breeze |
| 1430 hrs | 50.5°C | 40°C | Clear, breeze |
| 1457 hrs | 56.5°C | 41°C | Clear |
| 1530 hrs | 52°C | 39.5°C | Clear, breeze |
| 1601 hrs | 48.5°C | 39°C | Clear, wind |
| 1630 hrs | 40°C | 36.5°C | Windy |
| 1700 hrs | 37°C | 34°C | Wind, haze |
| 1730 hrs | 37°C | 32.5°C | Breeze, haze |
| 1800 hrs | 35.5°C | 32°C | Breeze, haze |
| 1830 hrs | 32.5°C | 30.5°C | Breeze, haze |
| 1900 hrs | 29.5°C | 28.5°C | Breeze, haze |
|  |  |  |  |

1971, 14 August, La Algaida (N36.862136 W6.302683)

0742 hrs, 22°C (both sun & shade), no sun, very overcast.

1971, 15 August, Base Naval de Rota, General (~N 36.627812 W6.331415)

ES 312 (Buthidae) *Buthus occitanus* (young born ca. 3 days following collection.

1971, 17 August, Base Naval de Rota, General (~N 36.627812 W6.331415)

1935 hrs, *Malpolon monspessulanus* DOR.

1971, 17 August, Puerto de Santa María (= Valdelagrana, N36.57945 W6.22406)

2000 hrs-2030 hrs, nothing seen.

1971, 17 August, Puerto Real, from N-IV at ~N36.53761 W6.16818 to C-440 via A-408

2045 hrs-2200 hrs, *Rhinechis scalaris* DOR.

1971, 20 August, La Algaida (N36.862136 W6.302683)

N entrance, 1400 hrs, *Malpolon monspessulanus* DOR.

1527 hrs, 28.9°C.

1710 hrs, 27.2°C.

1850 hrs, 24.4°C.

1500 hrs-1800 hrs, 3 (2 adults, 1 juvenile) *Acanthodactylus erythrurus* collected alive and sent to F. Harvey Pough at Cornell University for physiological measurements.

1971, 21 August, La Algaida (N36.862136 W6.302683)

0700 hrs, 11.1°C, mosquitoes at pest proportions.

0838 hrs, *Psammodromus algirus* caught while sunning under *Juniperus phoenicea*.

0850 hrs, adult *Psammodromus algirus* in *Corema album*.

0901 hrs, adult *Psammodromus algirus* in *Corema album*.

0910 hrs, adult *Psammodromus algirus* in *Corema album*.

0922 hrs, adult *Psammodromus algirus* in *Corema album*.

0925 hrs, adult *Psammodromus algirus* in *Corema album*.

0928 hrs, adult *Psammodromus algirus* in *Corema album*.

0930 hrs, juvenile *Acanthodactylus erythrurus* in open sun.

0936 hrs, 23.3°C.

0946 hrs, *Psammodromus algirus* in Pistacia lentiscus of peripheral (N) area.

0949 hrs, *Psammodromus algirus* in *Juniperus phoenicea*.

0950 hrs, *Acanthodactylus erythrurus* in open sun.

0951 hrs, juvenile *Acanthodactylus erythrurus* caught in *Juniperus phoenicea* area.

0954 hrs, 2 adult *Acanthodactylus erythrurus* in *Corema album*  area.

0959 hrs, adult *Acanthodactylus erythrurus* in *Corema album*.

1001 hrs, adult *Psammodromus algirus* in *Corema album*.

1005 hrs, adult *Acanthodactylus erythrurus* in open sun.

1006 hrs, juvenile *Acanthodactylus erythrurus* in open sun.

1011 hrs, adult *Acanthodactylus erythrurus* in *Corema album*.

1016 hrs, adult *Acanthodactylus erythrurus* in *Corema album*.

1018 hrs, adult *Acanthodactylus erythrurus* in *Corema album*.

1971, 21 August, La Algaida -2-

1019 hrs, adult *Psammodromus algirus* in *Juniperus phoenicea*.

1025 hrs, 2 juvenile *Acanthodactylus erythrurus* in *Corema album*.

1028 hrs, 2 adult *Acanthodactylus erythrurus* in *Corema album*.

1031 hrs, adult *Acanthodactylus erythrurus* in *Corema album*.

1032 hrs, juvenile *Acanthodactylus erythrurus* in open sun.

1033 hrs, adult *Acanthodactylus erythrurus* in open sun.

1034 hrs, juvenile *Acanthodactylus erythrurus* in open sun.

1040 hrs, 2 adult *Acanthodactylus erythrurus* in *Corema album*.

1043 hrs, adult *Acanthodactylus erythrurus* in open sun.

1044 hrs, adult *Acanthodactylus erythrurus* in *Juniperus phoenicea*.

1045 hrs, adult *Acanthodactylus erythrurus* in open sun.

1047 hrs, juvenile *Acanthodactylus erythrurus* in *Corema album*.

1049 hrs, 2 adult *Acanthodactylus erythrurus* in open sun.

1055 hrs, adult *Acanthodactylus erythrurus* in *Corema album*.

1101 hrs, adult *Acanthodactylus erythrurus* in *Corema album*.

1107 hrs, 2 adult *Acanthodactylus erythrurus* in *Corema album*.

1111 hrs, adult *Acanthodactylus erythrurus* in *Corema album*.

1113 hrs, adult *Acanthodactylus erythrurus* in *Juniperus phoenicea*.

1117 hrs, adult *Acanthodactylus erythrurus* in open sun.

1118 hrs, adult *Acanthodactylus erythrurus* in *Corema album*.

1120 hrs, adult *Acanthodactylus erythrurus* in *Corema album*.

1124 hrs, adult *Acanthodactylus erythrurus* in *Corema album*.

1126 hrs, adult *Acanthodactylus erythrurus* in *Corema album*.

1127 hrs, adult *Psammodromus algirus* in *Corema album*.

1129 hrs, adult *Acanthodactylus erythrurus* in open sun.

1136 hrs, adult *Acanthodactylus erythrurus* in *Corema album*.

1137 hrs, adult *Psammodromus algirus* in *Corema album*.

1143 hrs, adult *Acanthodactylus erythrurus* in open sand, disappeared into a large hole beneath

*Corema album* root area.

1146 hrs, adult *Acanthodactylus erythrurus* in *Corema album*.

1148 hrs, adult *Acanthodactylus erythrurus* in *Corema album*.

1152 hrs, 2 adult *Acanthodactylus erythrurus* in *Corema album*.

1156 hrs, adult *Acanthodactylus erythrurus* in *Juniperus phoenicea*.

1210 hrs, 2 adult *Acanthodactylus erythrurus* in *Corema album*.

1214 hrs, adult *Acanthodactylus erythrurus* in open sun.

1215 hrs, juvenile *Acanthodactylus erythrurus* in Juncus acutus.

1217 hrs, 3 adult *Acanthodactylus erythrurus* in *Juniperus phoenicea* area.

1220 hrs, adult *Acanthodactylus erythrurus* in *Corema album*.

1236 hrs, *Psammodromus algirus* in *Juniperus phoenicea*.

1240 hrs, adult *Psammodromus algirus* in *Juniperus phoenicea*.

1243 hrs, 2 adult *Acanthodactylus erythrurus* in *Corema album*.

1245 hrs, 2 adult *Acanthodactylus erythrurus* in *Corema album*.

1252 hrs, adult *Acanthodactylus erythrurus* in shade of *Corema album*.

1255 hrs, adult *Acanthodactylus erythrurus* in *Juniperus phoenicea*.

1258 hrs, adult *Acanthodactylus erythrurus* in *Corema album*.

1971, 21 August, La Algaida -3-

1308 hrs, 29.4°C.

1342 hrs, 31.1°C.

*Psammodromus algirus* (CMFS 22501; CM 55329).

*Acanthodactylus erythrurus* (CMFS 22502; CM 55330).

1971, 21 August, La Algaida Black-body Temperatures

|  |  |  |  |
| --- | --- | --- | --- |
| Time | Sun | Open Shade | Sky |
| 0800 hrs | 26°C | 20°C | Clear |
| 0830 hrs | 31°C | 22°C | Clear |
| 0900 hrs | 35°C | 22.5°C | Clear |
| 0930 hrs | 40°C | 24°C | Clear |
| 1000 hrs | 44°C | 26°C | Clear |
| 1030 hrs | 47°C | 28°C | Clear |
| 1100 hrs | 45°C | 30°C | Clear |
| 1130 hrs | 53°C | 34.5°C | Clear |
| 1200 hrs | 57.5°C | 35.5°C | Clear |
| 1229 hrs | 58.5°C | 36.5°C | Clear |
| 1300 hrs | 58.5°C | 36.5°C | Clear |

1971, 21 August, La Algaida (N36.862136 W6.302683)

La Algaida to Punta Paloma. Nothing seen DOR from Puerto de Santa María to Punta Paloma.

1971, 21 August, Punta Paloma (~N36.06284 W5.71259), A-2325.

1700 hrs-1845 hrs, 6 *Acanthodactylus erythrurus* seen, 1 captured and sent to Cornell University.

1971, 21 August, Facinas (N36.14768 W5.70281), CA-221

7.1 mi. NE, 1924 hrs, 2 *Tarentola mauritanica* on bridge, not taken.

14.9 mi. NE (or 5 mi. W of Los Barrios), 2000 hrs-2020 hrs, set up camp and collected *Mauremys leprosa* (CMFS 22503; CM 55331), at least 12 others were seen in the pond (fresh

water). A *Tarentola mauritanica* was seen on the bridge and many *Pelophylax perezi* noted in the pond area.

1971, 22 August, Punta Paloma (~N36.06284 W5.71259), A-2325.

1000 hrs, *Timon lepidus* crossing the road.

1971, 22 August, Barbate de Franco (N36.19495 W5.91768), C-343 (to NW)

0.3 mi. W, 1115 hrs-1200 hrs, 29.4°C, in an area of *Pinus pinea*, *Lagos monosperma*

(predominant cover), *Halimium halimiifolium* (occasional), sparse grasses, and a

substrate of sand/*Pinus* needles. 2 juvenile *Acanthodactylus erythrurus* collected, 7-8

adult *Acanthodactylus erythrurus* seen.

2.0 mi. W, 1315 hrs, where *Pinus pinea* (dominant tree) shares land with *Eucalyptus* and

*Halimium halimiifolium*, *Cistus crispus*, *Chamerops humilis* are well established, 2 adult

*Acanthodactylus erythrurus* collected to be sent to Cornell. *Quercus coccifera* also

present here making area somewhat similar to 3.5 mi. E of Puerto Real in structure. La

Barca de Florida is much the same but lacks the *Pinus* structure. *Lygos monosperma* is

1971, 22 August, Barbate de Franco (N36.19495 W5.91768), C-343 (to NW) -2-

noticeably missing here at 2.0 mi. W and the sand is more compacted.

2.9 mi. W, *Juniperus phoenicea* comes into area heavily.

7.1 mi. W at Cabo Trafalgar, 1337 hrs, Cabo Trafalgar – *Acanthodactylus erythrurus* population stretches at least to here.

1971, 22 August, Sancti Petri (Benchmark) (N36.39564 W6.20740)

1440 hrs, no *Acanthodactylus erythrurus* seen but they probably are here en masse – the *Pinus* configuration extends this far.

1971, 22 August, Puerto Real, from N-IV at ~N36.53761 W6.16818 to C-440 via A-408

3.5 mi. E, 1505 hrs, 32.2°C, *Malpolon monspessulanus* AOR.

3.8 mi. E, 32.2°C, in an area of *Quercus coccifera, Pinus pinea, Pistacia lentiscus*, and

*Chamerops humilis*, 1 *Acanthodactylus* taken, 1 *Timon lepidus* and 1 *Psammodromus*

*algirus* seen.

1615 hrs, end survey.

1971, 28 August, Pantano (=Embalse) de Los Hurones (N36.66443 W5.48522)

1.2 mi. SW, 1159 hrs, 28.9°C, *Timon lepidus* (CMFS 22504-22505; CM 55439-55440) shot from

a retaining wall.

1.2 mi. SW, 1215 hrs, 27.2°C, *Timon lepidus* (CMFS 22504-22505; CM 55439-55440) shot from

wall.

1971, 28 August, Galis (N36.55958 W5.60101), C-3331

0.4 mi. ENE, 1310 hrs, 23.3°C, *Psammodromus algirus*

4.8 mi. ENE in *Montes Propios de Jerez*, N36.57682 W5.53145 (594 m), *Psammodromus algirus* (CMFS 22507; CM 55442) shot, 1 *Psammodromus algirus* seen.

4.8 mi. ENE in *Montes Propios de Jerez*, N36.57682 W5.53145 (594 m), *Chalcides striatus* (CMFS 22506; CM 55441)

0.5 mi. W on road to Alcalá de los Gazules, 1530 hrs, 25.6°C, *Hemorrhois hippocrepis*  (CMFS

22508; CM 55443) shot on retaining wall.

3.4 mi. S, 3 *Podarcis vaucheri*, 1 of which was a hatchling.

5.4 mi. S, 2 *Podarcis vaucheri*

6.5 mi. S (N36.51513 W5.65743, 368.2 m), 1626 hrs, 30.0°C, *Psammodromus algirus* (CMFS 22515; CM 55450) shot.

7.0 mi. S, 1635 hrs, *Tarentola mauritanica* (CMFS 22509; CM 55444) collected from a culvert.

1971, 28 August, Alcalá de los Gazules (N36.43994 W5.71962), C-440 SE

6.9 mi. E, 1830 hrs-1915 hrs, ~22.2°C, *Pelophylax perezi* (CMFS 22510; CM 55445).

6.9 mi. E, 1830 hrs-1915 hrs, ~22.2°C, 4 *Bufo spinosus* (CMFS 22511[4]; CM 55446).

6.9 mi. E, 1830 hrs-1915 hrs, ~22.2°C, 2 *Mauremys leprosa* (CMFS 22512-22513; CM 55447-

55448).

1971, 28 August, Casas del Castaño (N36.30792 W5.59662), C-440

8.4 mi. E, 3 *Mauremys leprosa* in river’s ponds.

1971, 29 August, Los Barrios (N36.18209 W5.48920), C-440 (1969-1972)

8.6 mi. W, *Timon lepidus* (CMFS 22514; CM 55449) DOR.

12.9 mi. W, *Psammodromus algirus* AOR.

1971, 29 August, Benalup de Sidonia (N36.34812 W5.81583), A-2228, S to A-396 (Vejer)

9.3 mi. S, juvenile *Rhinechis scalaris* DOR.

1971, 29 August, Barbate de Franco (N36.18806 W5.92309), (A-2233)

2.8 mi. W, 0.2 mi. S (N36.18615 W5.96521), ~29.4°C, series of *Acanthodactylus erythrurus*

(CMFS 22516-22529; CM 55451[14]) shot in sandy area of *Pinus pinea*.

2.8 mi. W, 0.2 mi. S (N36.18615 W5.96521), ~29.4°C, series of *Psammodromus algirus* (CMFS

22530-22532; CM 55452-55454) shot in sandy area of *Pinus pinea*.

1971, 04 September, Base Naval de Rota, General (~N 36.627812 W6.331415)

*Hemorrhois hippocrepis*  (CMFS 22533;CM 55455) DOR. M. Moya collection.

1971, 05 September, El Bosque, Benamahoma, Ubrique, Galis, Algar.

0900 hrs-2000 hrs total survey.

1971, 05 September, El Bosque (N36.75725 W5.51359), CA-524 (SSE to Ubrique)

0.3 mi. SE, *Malpolon monspessulanus* DOR.

3.9 mi. E, 1100 hrs, 29.4°C, sub-adult *Timon lepidus* AOR.

1971, 05 September, Benamahoma (N36.75894 W5.46421), C-344 (A-372)

1.0 mi. N, N36.75584 W5.45489 (636 m), 34.4°C, 2 *Podarcis vaucheri* (CMFS 22538-22541; CM 55460-55463) shot.

1.0 mi. N, N36.75584 W5.45489 (636 m), 34.4°C, 2 *Psammodromus algirus* (CMFS 22534-22537; CM 55456-55459) shot, 1 *Psammodromus algirus* seen.

1.0 mi. N, N36.75584 W5.45489 (636 m), 34.4°C, 1 *Timon lepidus* seen. The *Timon lepidus* was in the water of stream and appeared to be at home in the aquatic environment.

1971, 05 September, Ubrique (N36.67253N W5.44669), C-333 (SW) (A-373)

2.8 mi. S (=8.4 km SE, 36.6114N, 5.4911 W), 579 m, *Malpolon monspessulanus* DOR.

8.1 mi. S (N36.58930N, 5.51380 W, 661 m), 15:50 hrs, 28.9°C, *Psammodromus algirus* (CMFS 22534-22537; CM 55456-55459) shot in a *Pinus pinea* area and *Quercus suber* area, AOR.

8.6 mi. S, 1330 hrs, *Timon lepidus* DOR.

10.8 mi. S (N36.56741 W5.54580, 571 m), 1403 hrs, 25.0°C, *Psammodromus algirus* (CMFS 22545; CM 55467) shot from granite like outcropping.

14.5 mi. S, 1600 hrs-1645 hrs, *Tarentola mauritanica*(CMFS 22546; CM 55468) shot from rock

outcropping in *Pinus pinaster* area.

16.4 mi. S, 1700 hrs-1720 hrs, 26.1°C, 3 *Podarcis vaucheri*(CMFS 22542-22544; CM 55464-

55466) shot from bridge.

1971, 05 September, Galis at 1725 hrs.

1971, 05 September, Algar (N36.65531 W5.65956)

1834 hrs, 26.7°C, juvenile *Podarcis vaucheri* (CMFS 22538-22541; CM 55460-55463) collected

from a retaining wall.

1971, 06 September, Base Naval de Rota, General (~N 36.627812 W6.331415) Miguel Moya

Collection.

*Timon lepidus* (CMFS 22547; CM 55469) was caught live in watch tower.

1971, 06 September, Rota (vic. N36.62899 W6.35430)

Beach area along Chipiona Road, 8 *Acanthodactylus erythrurus* (shipped to F. H. Pough,

Cornell University).

*Chamaeleo chamaeleon* (CMFS 22548 CM 55470) also collected and preserved.

1971, 07 September, Rota-Puerto Real

1971, 07 September, Puerto Real, from N-IV at ~N36.53761 W6.16818 to C-440 via A-408

2105 hrs, many *Rattus* (probably *norvegicus*?) seen all over. September is definitely the beginning of rat season. One small kangaroo mouse with white tail tip seen (may be tuft of hair on tail tip).

7.0 mi. E, 2200 hrs, 13.3°C, a *Caprimulgus europaeus* AOR (2030 hrs-2230 hrs).

1971, 11 September, La Algaida (N36.862136 W6.302683)

0816 hrs, 15.6°C, 0900 hrs, flies at pest proportions.

0919 hrs, *Psammodromus algirus* in *Corema album*.

0921 hrs, *Psammodromus algirus* in open sand.

0954 hrs, adult *Acanthodactylus erythrurus* sunning under *Corema album*.

1002 hrs, juvenile *Acanthodactylus erythrurus* in open sand.

1013 hrs, 21.1°C.

1022 hrs, adult *Acanthodactylus erythrurus* in open sand.

1025 hrs, adult *Acanthodactylus erythrurus* in *Corema album* /open sand.

1026 hrs, adult *Acanthodactylus erythrurus* in *Juniperus phoenicea*.

1029 hrs, juvenile *Acanthodactylus erythrurus* shot in open sand. TB <33.9°C.

1035 hrs, *Psammodromus algirus* in *Juniperus phoenicea* in open sun.

1036 hrs, adult *Psammodromus algirus* in *Juniperus phoenicea*.

1037 hrs, juvenile *Acanthodactylus erythrurus* in open sand.

1042 hrs, adult *Acanthodactylus erythrurus* in open sand.

1045 hrs, adult *Acanthodactylus erythrurus* shot in open sand. TB = 37.2°C

1049 hrs, adult *Psammodromus algirus* shot in *Juniperus phoenicea*. TB = 35.8°C.

1051 hrs, adult *Acanthodactylus erythrurus* in shade near *Corema album*  juvenile

*Acanthodactylus erythrurus* also seen.

1056 hrs, *Psammodromus algirus* in *Juniperus phoenicea*.

1058 hrs, adult *Acanthodactylus erythrurus* shot in open sand. TB = 37.4°C.

1104 hrs, adult *Psammodromus algirus* shot in open sand. TB = 38.3°C.

1108 hrs, adult *Acanthodactylus erythrurus* shot in open sand. TB = 37.2°C

1109 hrs, adult *Acanthodactylus erythrurus* in *Juniperus phoenicea*.

1120 hrs, adult *Psammodromus algirus* in *Corema album*.

1971, 11 September, La Algaida (N36.862136 W6.302683) -2-

1124 hrs, adult *Acanthodactylus erythrurus* shot sunning in *Juniperus phoenicea*. TB = 39.1°C.

1126 hrs, adult *Acanthodactylus erythrurus* in *Juniperus phoenicea*.

1127 hrs, adult *Acanthodactylus erythrurus* in *Corema album*.

1130 hrs, adult *Acanthodactylus erythrurus* shot in *Corema album* . TB = 35.7°C (in bush).

1134 hrs, adult *Acanthodactylus erythrurus* in *Corema album*.

1143 hrs, adult *Psammodromus algirus* in *Corema album*.

1146 hrs, adult *Acanthodactylus erythrurus* shot in open sun. TB = 38.9°C.

1148 hrs, adult *Acanthodactylus erythrurus* shot in open sun. TB = 39.0°C, another seen in area.

1151 hrs, juvenile *Acanthodactylus erythrurus* in open sand.

1158 hrs, adult *Acanthodactylus erythrurus* in *Corema album* area.

1201 hrs, (~ ± 22.7°) juvenile *Psammodromus algirus*, adult *Acanthodactylus erythrurus*, juvenile *Acanthodactylus erythrurus* in open sand/sun.

1205 hrs, adult *Acanthodactylus erythrurus* shot in *Corema album* area. TB = 38.1°C.

1214 hrs, adult *Acanthodactylus erythrurus* in open sand; went into hole and disappeared. I dug

1.25 cm down and 1.25 cm to each side of original hole and did not find him.

1217 hrs, adult *Acanthodactylus erythrurus* in *Corema album*.

1219 hrs, adult *Acanthodactylus erythrurus* in *Corema album*.

1220 hrs, juvenile *Acanthodactylus erythrurus* shot in *Corema album*. TB = 37.0°C.

1226 hrs, adult *Acanthodactylus erythrurus* shot in *Juniperus phoenicea*. TB = 36.7°C.

1228 hrs, adult *Acanthodactylus erythrurus* in open sand.

1229 hrs, adult *Acanthodactylus erythrurus* in open sand.

1237 hrs, 22.8°C.

1253 hrs, adult *Acanthodactylus erythrurus* shot in open sand. TB = 38.3°C.

1305 hrs, adult *Acanthodactylus erythrurus* shot in open sand. TB = 36.7°C.

1312 hrs, adult *Acanthodactylus erythrurus* shot in *Corema album* . TB = 36.2°C.

1316 hrs, adult *Acanthodactylus erythrurus* shot in *Corema album*  (shaded sun). TB = 38.3°C.

1320 hrs, adult *Acanthodactylus erythrurus* in open sand.

1330 hrs, adult *Acanthodactylus erythrurus* in *Corema album* /open sand.

1332 hrs, adult *Acanthodactylus erythrurus* in open sand.

1337 hrs, adult *Acanthodactylus erythrurus* in open sand in *Corema album*.

1345 hrs, adult *Acanthodactylus erythrurus* shot in open sand. TB = 38.8°C. Adult

*Acanthodactylus erythrurus* also seen.

1354 hrs, adult *Acanthodactylus erythrurus* in *Corema album*.

1358 hrs, adult *Acanthodactylus erythrurus* shot in open sand. TB = 39.2°C.

1405 hrs, adult *Acanthodactylus erythrurus* in *Corema album*  area under *Pinus pinea* shade.

1410 hrs, juvenile *Acanthodactylus erythrurus* shot in open sand. TB = 35.2°C.

1416 hrs, adult *Acanthodactylus erythrurus* in open sand.

1426 hrs, adult *Acanthodactylus erythrurus* shot in open sand/*Corema album* . TB = 37.5°C.

1430 hrs, adult *Acanthodactylus erythrurus* shot in shade of *Juniperus phoenicea*. TB = 35.3°C.

1439 hrs, 2 adult *Psammodromus algirus* in open area near *Pistacia lentiscus* in N periphery.

1446 hrs, 26.7°C.

1454 hrs, adult *Acanthodactylus erythrurus* in open sun.

1458 hrs, adult *Acanthodactylus erythrurus* shot in open sun. TB = 40.3°C.

1501 hrs, adult *Psammodromus algirus* in *Corema album* .

1971, 11 September, La Algaida -3-

1509 hrs, *Timon lepidus* in open sun.

1520 hrs, adult *Psammodromus algirus* shot in *Corema album*. TB = 37.6°C.

1528 hrs, adult *Acanthodactylus erythrurus* shot in open sand. TB = 37.4°C.

1539 hrs, adult *Acanthodactylus erythrurus* shot in *Corema album* . TB = 37.9°C.

1544 hrs, adult *Acanthodactylus erythrurus* in *Juniperus phoenicea* area/sun-shade.

1547 hrs, adult *Acanthodactylus erythrurus* shot in shade of *Juniperus phoenicea*/Corema

*album*. TB = 37.1°C.

1613 hrs, adult *Acanthodactylus erythrurus* shot in open sand. TB = 38.3°C.

1618 hrs, adult *Acanthodactylus erythrurus* shot in open sand. TB = 37.6°C.

1619 hrs, juvenile *Acanthodactylus erythrurus* in open sand.

1638 hrs, juvenile *Acanthodactylus erythrurus* shot in open sand. TB = 33.6°C.

1641 hrs, juvenile *Acanthodactylus erythrurus* shot in *Juniperus phoenicea*. TB = 33.9°C.

1647 hrs, adult *Acanthodactylus erythrurus* shot in *Corema album*. TB = 37.4°C. juvenile

*Acanthodactylus erythrurus* seen in open sand.

1653 hrs, juvenile *Acanthodactylus erythrurus* shot in *Juniperus phoenicea*.

1659 hrs, adult *Acanthodactylus erythrurus* in *Juniperus phoenicea*.

1709 hrs, adult *Psammodromus algirus* in *Corema album*.

1711 hrs, juvenile *Acanthodactylus erythrurus* shot in open sand. TB = 37.2°C.

1721 hrs, adult *Acanthodactylus erythrurus* in open sand.

1738 hrs, juvenile *Acanthodactylus erythrurus* shot in open sand.

1800 hrs, end.

1807 hrs, 21.7°C.

*Psammodromus algirus* (CMFS 22549-22551; CM 55471-55473). *Acanthodactylus erythrurus* (CMFS 22552[7]-22577; CM 55474[25] CMFS 22552 [7] MISSING).

1971, 11 September, La Algaida Black body temperatures

|  |  |  |  |
| --- | --- | --- | --- |
| Time | Sun | Open Shade | Sky |
| 0830 hrs | 26.5°C | 19.0°C | Partly cloudy/still |
| 0900 hrs | 33.0°C | 20.0°C | Partly cloudy/still |
| 0930 hrs | 34.5°C | 21.5°C | Partly cloudy/still |
| 1000 hrs | 40.5°C | 23.0°C | Partly cloudy/still |
| 1033 hrs | 43.0°C | 26.0°C | Partly cloudy/breeze |
| 1101 hrs | 44.0°C | 26.0°C | Partly cloudy/breeze |
| 1136 hrs | 43.5°C | 29.5°C | Partly cloudy/breeze |
| 1207 hrs | 47.0°C | 31.5°C | Partly cloudy/breeze |
| 1232 hrs | 45.5°C | 30.5°C | Partly cloudy/breeze |
| 1302 hrs | 48.0°C | 33.0°C | Partly cloudy/breeze |
| 1331 hrs | 49.5°C | 34.5°C | Partly cloudy/breeze |
| 1402 hrs | 47.0°C | 36.5°C | Partly cloudy/breeze |
| 1433 hrs | 43.0°C | 33.5°C | Clear/breeze |
| 1504 hrs | 47.0°C | 29.5°C | Clear/breeze |
| 1530 hrs | 49.0°C | 27.0°C | Clear/breeze |
| 1600 hrs | 48.0°C | 26.5°C | Clear/breeze |
| 1630 hrs | 47.5. °C | 26.5°C | Clear/wind |
| 1700 hrs | 44.0°C | 27.5°C | Clear/wind |
| 1730 hrs | 33.0°C | 27.5°C | Clear/wind |
| 1800 hrs | 31.5°C | 26.0°C | Clear/wind |

1971, 11 September, Base Naval de Rota, General (~N 36.627812 W6.331415)

*Hyla meridionalis* (CMFS 22578-22580; CM 55475-55477) Miguel Moya collection.

*Malpolon monspessulanus* (CMFS 22581; CM 55478)

1971, 17 September, Chiclana de la Frontera (N36.42156 W6.14469), N-340

12.4 mi. SSE, 1440 hrs, 28.3°C, *Rhinechis scalaris* (CMFS 22582;CM 55479) DOR.

1971, 17 September, Cabo Trafalgar (~N36.18564 W6.03306)

5.0 mi. W of Barbate de Franco

1630 hrs, 26.1°C, air.

1657 hrs, adult *Acanthodactylus erythrurus*.

1746 hrs, adult *Acanthodactylus erythrurus*.

1750 hrs, adult *Acanthodactylus erythrurus* shot in *Cistus crispus*.

1751 hrs, juvenile *Acanthodactylus erythrurus* in *Pistacia lentiscus*.

1800 hrs, juvenile *Acanthodactylus erythrurus* on rock formation near *Halimium halimiifolium.*

*Acanthodactylus erythrurus* CMFS 22583-22584; CM 55480-55481).

1971, 18 September, Barbate de Franco, (N36.18806 W5.92309), (A-2233)

5.0 mi. W, 0900 hrs, *Acanthodactylus erythrurus* (CMFS 22585; CM 55482) shot, juvenile

*Acanthodactylus erythrurus* seen.

5.0 mi. W, 0915 hrs, 23.3°C, juvenile *Hemorrhois hippocrepis*  (CMFS 22592; CM 55489)

collected on sand in *Pinus pinea*/*Halimium halimiifolium* area.

4.2 mi. W, 0930 hrs-1010 hrs, 23.3°C, 2 *Psammodromus algirus* (CMFS 22590-22591; CM

55487-55488)

4.2 mi. W, 0930 hrs-1010 hrs, 23.3°C, 1 *Acanthodactylus erythrurus* (CMFS 22586-22589; CM

55483- 55486).

3.5 mi. W, 1015 hrs, 25.6°C, adult *Acanthodactylus erythrurus* (CMFS 22586-22589; CM

55483-55486) shot.

3.1 mi. W, 1021 hrs, 25.0°C, 2 *Acanthodactylus erythrurus* (CMFS 22586-22589; CM 55483-

55486) shot under *Lygos monosperma* and one sunning on a rock.

1971, 18 September, Punta Paloma (~N36.06284 W5.71259)

1135 hrs-1300 hrs, series of *Acanthodactylus erythrurus* (AF 757-764; USNM 193118, USNM

523384-523390). 1314 hrs, 25.0°C.

1971, 18 September, Vejer de la Frontera (N36.26089 W5.96476), N-340

10.8 mi. SSE, 1126 hrs, 27.2°C, juvenile *Malpolon monspessulanus* (CMFS 22593-22594; CM

55490-55491) DOR.

12.0 mi. SSE, juvenile *Malpolon monspessulanus*(CMFS 22593-22594; CM

55490-55491) DOR.

1971, 18 September, Facinas (N36.14768 W5.70281), CA-221

6.2 mi. N, 1423 hrs, 26.1°C, *Tarentola mauritanica* on a culvert, not collected.

6.3 mi. N, 1426 hrs, 25.6°C, sub-adult *Podarcis vaucheri* shot (CMFS 22597-22605; CM

55494[9]) shot off top of culvert.

6.4 mi. N, 1432 hrs, 25.6°C, adult *Tarentola mauritanica* (CMFS 22606-22616; CM 55495[11])

shot on culvert.

6.4 mi. N, 1438 hrs, 26.1°C, adult *Tarentola mauritanica* under bridge.

6.6 mi. N, 1443 hrs, 26.1°C, juvenile *Tarentola mauritanica* in culvert.

6.6 mi. N, 1443 hrs, 26.1°C, *Podarcis vaucheri* in culvert.

6.8 mi. N, 1450 hrs, 26.7°C, 2 *Tarentola mauritanica* shot from culvert, only one specimen

(CMFS 22606-22616; CM 55495[11]) saved.

7.0 mi. N, 1500 hrs, adult *Podarcis vaucheri* seen, juvenile *Podarcis vaucheri*(CMFS 22597-

22605; ; CM 55494[9]) shot on bridge. The adult was on the vertical support – both shot

but adult couldn’t be retrieved.

7.1 mi. N, 1505 hrs, 25.6°C, adult *Podarcis vaucheri* (CMFS 22597-22605; CM 55494[9]) shot

under culvert.

7.1 mi. N, 1507 hrs, 27.2°C, *Tarentola mauritanica* (CMFS 22606-22616; CM 55495[11])

shot from culvert.

8.1 mi. N, 1515 hrs, 25.0°C, juvenile *Malpolon monspessulanus* (CMFS 226617; CM 55496)

AOR.

8.3 mi. N, 1519 hrs, 26.7°C, *Tarentola mauritanica* on culvert.

8.6 mi. N, 1525 hrs, 30.0°C (sun), *Tarentola mauritanica* under bridge.

8.9 mi. N, 1530 hrs, 26.7°C, *Podarcis vaucheri* shot from bridge (CMFS 22597-22605; CM

55494[9]).

9.0 mi. N, 1534 hrs, 27.2°C, *Tarentola mauritanica* shot from culvert (CMFS 22606-22616; CM

55495[11]) ..

10.1 mi. N, 1547 hrs, 23.9°C, 2 *Podarcis vaucheri*(1 adult, 1 juvenile) shot off bridge (CMFS

22597-22605; CM 55494[9]) while 1 adult *Podarcis vaucheri* and 1 juvenile *Podarcis*

*vaucheri* seen.

10.5 mi. N, 1556 hrs, 23.9°C (shade), 2 adult *Podarcis vaucheri* shot (CMFS 22597-22605; CM

55494[9]).

10.8 mi. N, 1635 hrs, in *Quercus suber* area of rocks *Podarcis vaucheri* (CMFS 22597-22605;

CM 55494[9]) and *Pelophylax perezi* tadpole (CMFS 22595; CM 55492) collected in an

area of vernal pond.

12.7 mi. N, 1654 hrs, ±23.9°C, adult *Tarentola mauritanica* shot (CMFS 22606-22616; CM

55495[11]) from culvert.

12.8 mi. N, 1657 hrs, 25.0°C, *Podarcis vaucheri* shot (CMFS 22597-22605; CM 55494[9]) from

rock.

13.3 mi. N, 1711 hrs, 25.6°C, *Tarentola mauritanica* shot from culvert (CMFS 22606-22616;

CM 55495[11]), 1 adult *Tarentola mauritanica* seen.

13.4 mi. N, 1717 hrs, 27.2°C, adult *Tarentola mauritanica* shot(CMFS 22606-22616; CM

55495[11]) from a culvert.

13.6 mi. N, 1720 hrs, 22.8°C, 2 *Tarentola mauritanica.*

13.6 mi. N, 1727 hrs, 24.4°C, *Tarentola mauritanica* shot (CMFS 22606-22616; CM 55495[11]).

13.6 mi. N, 1727 hrs, 24.4°C, *Podarcis vaucheri* seen on culvert.

1971, 18 September, Facinas (N36.14768 W5.70281), CA-221 -2-

13.7 mi. N, 1730 hrs, 23.3°C, *Tarentola mauritanica* shot from culvert (CMFS 22606-22616;

CM 55495[11]).

14.0 mi. N, 1737 hrs, 24.4°C, *Tarentola mauritanica* on bridge

14.5 mi. N, 1544 hrs, 27.8°C (direct sun), adult *Tarentola mauritanica* (CMFS 22606-22616;

CM 55495[11]) shot in a culvert.

14.7 mi. N, 1749 hrs, 24.4°C (shade), adult *Tarentola mauritanica* shot (CMFS 22606-22616;

CM 55495[11]) from culvert in shade.

1971, 18 September, Casas del Castaño (N36.30792 W5.59662), C-440

1.4 mi. W, 1930 hrs, 17.8°C, *Caprimulgus europaeus* AOR in humid area.

11.4 mi. W, a marmot-like, reddish-brown mammal with a head of brown and with black-tipped

brown ears and bi-colored fur (*Mustela nivalis*?). Animal exhibited eye-shine.

1971, 18 September, Puerto de Santa Maria (= Valdelagrana, N36.57945 W6.22406)

*Timon lepidus* (CMFS 22618; CM 55497) donated. HMC Morecic donation.

1971, 18 September, Base Naval de Rota, Río Salado (probably vicinity of Arroyo del

Salado, N36.63944 W6.31181)

*Mauremys leprosa* (CMFS 22622-22630; CM 55501[9]). Miguel Moya collection.

1971, 19 September, Zahara de la Sierra (N36.84235 W5.39051), CA-531 (CA-9104)

7.3 mi. S (N36.78654 W5.37701), 1228 hrs, 26.7°C, *Podarcis vaucheri* on stone abutment.

8.0 mi. S (N36.77754 W5.37798, 1112 m)), 1300 hrs-1410 hrs, 23.9°C, 2 *Psammodromus algirus*  (CMFS 22619-22620; CM 55498-55499).

8.0 mi. S (N36.77754 W5.37798, 1112 m), 1300 hrs-1410 hrs, 23.9°C, 1 *Podarcis vaucheri* (CMFS 22621; CM 55500) shot.

8.0 mi. S (N36.77754 W5.37798, 1112 m), 1300 hrs-1410 hrs, 23.9°C, 1415 hrs, *Podarcis vaucheri* on side of rock.

Area consists of granite rock with *Ulex* for vegetation, 1000 m or more (actually ca. 2115 m) in elevation, no signs of snakes at all.

1971, 19 September, Grazalema (N36.76188 W5.36330) E (C-344, A-372) & S (A-2302)

(N36.75280 W5.34955)

2.3 mi. S, 1505 hrs, 28.9°C, *Timon lepidus* crossing highway.

10.7 mi. S, 1525 hrs, 24.4°C, *Timon lepidus* DOR.

1971, 22 September, Rota, Fuentebravia (N36.61241 W6.28242)

*Chamaeleo chamaeleon* (CMFS 22631-22633; CM 55502-55504). Miguel Moya collection.

Provincia de Sevilla

1971, 25 September, Pantano (=Embalse) de la Minilla (37°40’30” N, 06°11’30” W =

N37.678369 W6.183680, 193 m)

Provincia de Sevilla

1971, 25 September, Pantano (=Embalse) de la Minilla (37°40’30” N, 06°11’30” W =

N37.678369 W6.183680, 193 m)

4.8 mi. E on N-630 (N37.73881 W6.17376, 358 m) [~ 1 mi N El Ronquillo [N37.72739 W6.17655], *Malpolon monspessulanus* (AF 771; USNM 193120) collected DOR.

In area of dam (N37.66519 W6.18538), a *Natrix maura* and several *Pelophylax perezi* seen. 1400 hrs-1430 hrs, Peter W. Hopkins and I collected a series of *Pelophylax perezi* (AF 765-777; USNM 193119, 525995-525999) at the base of the bridge downstream from the dam. Literally hundreds of *Pelophylax* hatchlings in area of small, smooth, stones and relatively shallow water. No *Mauremys* were noted but several freshwater fish were in evidence—none of appreciable size. Around the dam, talus is in evidence but there is a conspicuous lack of underbrush. Some gravel pits (3) are there, but they yield nothing but larval *Pelophylax*.

Provincia de Cádiz

1971, 26 September, Rota-La Barca de la Florida - El Torno - San Isidro del Guadalete –Jerez de la Frontera-Puerto Real

1971, 26 September, Puerto Real, from N-IV at ~N36.53761 W6.16818 to C-440 via A-408

9.9 mi. E, 1310 hrs, 27.2°C, *Malpolon monspessulanus* (CMFS 22634; CM 55505) D.O.R.

1971, 29 September, Puerto de Santa María, 2.2 mi S Benchmark (= Valdelagrana, N36.57447 W6.21956, 3 M) 1800 hrs-1930 hrs, 24.4°C, 2 juvenile *Natrix maura* (CMFS 22635-22636; CM 55506-55507) collected under a rock in vernal pond area.

1971, 29 September, Puerto Real, from N-IV at ~N36.53761 W6.16818 to C-440 via A-408

5.6 mi. E, 1955 hrs, 22.2°C, *Malpolon monspessulanus* (CMFS 22637; CM 55508) DOR.

1971, 01 October, Puerto Real, from N-IV at ~N36.53761 W6.16818 to C-440 via A-408

9.0 mi. E, 2125 hrs, 21.7°C, *Hyla meridionalis* (CMFS 22638; CM 55509) AOR.

1971, 03 October, Base Naval de Rota, Horse stables area (N36.632612 W6.319889)

1300 hrs, 28.3°C, *Acanthodactylus erythrurus* in stable area.

1971, 29 September, Villamartín (N36.85870 W5.63933), N-342 (A-384)

6.1 mi. ENE on N-342, *Hemorrhois hippocrepis* DOR.

1971, 29 September, Algodonales (N36.87596 W5.40170), N-342 (A-384)

0.6 mi. W, 1500 hrs, 27.8°C, *Timon lepidus* on a wall, not collected.

1971, 29 September, Torre Alháquime (N36.91561 W5.23310), CA-9120

1.8 mi. S (N36.89503 W5.21959), 1558 hrs, 25.6°C, a blue-tailed juvenile *Podarcis vaucheri* on

wall.

2.9 mi. S (N36.88754 W5.20505), 1615 hrs-1645 hrs, 25.0°C, under bridge (Río Trejo) in a fast,

clear stream by *Eucalyptus* stand a large series of *Pelophylax perezi* seen.

1971, 29 September, Villaluenga del Rosario (N36.69571 W5.38678), C-3331

1.4 mi. NE, *Timon lepidus* DOR in a talus area.

0.5 mi. NE, 1800 hrs, 18.9°C, juvenile *Rhinechis scalaris* DOR.

1971, 29 September, Ubrique (N36.68275 W5.45214), C-333 (A-2302)

0.7 mi. N, 21.1°C, 1900 hrs, *Hemorrhois hippocrepis* DOR.

1971, 09 October, Punta Paloma (~N36.06284 W5.71259)

1245 hrs, 21.7°C, clear and sunny, juvenile *Acanthodactylus erythrurus* active.

1971, 09 October, Vejer de la Frontera (N36.26089 W5.96476), C-343 (A-396)

7.6 mi. N, 1720 hrs, 23.3°C, *Timon lepidus* DOR.

(1245hrs -)1830 hrs, end.

1971, 12 October, Puerto Real, from N-IV at ~N36.53761 W6.16818 to C-440 via A-408

1930 hrs-2110 hrs, 21.1°C, nothing seen.

1971, 15 October, La Algaida (N36.862136 W6.302683)

1300 hrs, (calculated using October 11, 1970 differences between hours involved;

1300 hrs (calculated 23.9°); *Acanthodactylus erythrurus* on approach road.

1405 hrs, (calculated 24.5°C)

1418 hrs, adult *Acanthodactylus erythrurus* shot in *Corema album* after direct sun exposure.

TB = 36.9°C.

1422 hrs, adult *Acanthodactylus erythrurus* shot in open sun near *Corema album*. TB = 38.7°C.

1 adult seen.

1425 hrs, adult *Acanthodactylus erythrurus* shot in open sand near *Corema album*. TB = 38.0°C.

1430 hrs, juvenile *Acanthodactylus erythrurus* in open sand.

1432 hrs, adult *Acanthodactylus erythrurus* in *Juniperus phoenicea*.

1440 hrs, adult *Acanthodactylus erythrurus* in open sun.

1445 hrs, adult *Acanthodactylus erythrurus* in *Juniperus phoenicea*.

1456 hrs, juvenile *Acanthodactylus erythrurus* in open sun.

1457 hrs, adult *Acanthodactylus erythrurus* in open sun.

1507 hrs, juvenile *Acanthodactylus erythrurus* in open sun.

1515 hrs, juvenile *Acanthodactylus erythrurus* in open sand/shade. TB = ±34.1°C.

1521 hrs, juvenile *Acanthodactylus erythrurus* in open sand/sun. TB = 37.0°C.

1527 hrs, adult *Acanthodactylus erythrurus* in open sand.

1537 hrs, adult *Acanthodactylus erythrurus* shot in direct sun/open sand. TB = 41.1°C.

1541 hrs, adult *Acanthodactylus erythrurus* shot in *Juniperus phoenicea*. TB = 35.8°C.

1555 hrs, adult *Acanthodactylus erythrurus* shot in *Juniperus phoenicea*. TB = 36.4°C.

1605 hrs, juvenile *Acanthodactylus erythrurus* in open sand.

1606 hrs, juvenile *Acanthodactylus erythrurus* in *Halimium halimiifolium*  in shade of *Pinus*

*pinea*.

1609 hrs, 25.0°C, closed shade.

1645 hrs, juvenile *Acanthodactylus erythrurus* shot in *Corema album*. TB = 34.2°C.

1650 hrs, juvenile *Acanthodactylus erythrurus* in open sun.

1712 hrs, 24.4°C.

1800 hrs, 23.3°C.

1971, 16 October, La Algaida (N36.862136 W6.302683)

0800 hrs, mosquitoes at pest proportions.

0840 hrs, 14.4°C, overcast.

0928 hrs, adult *Psammodromus algirus*  shot in *Corema album*. TB < 33.9°C.

0946 hrs, juvenile *Acanthodactylus erythrurus* in *Corema album*.

1000 hrs, juvenile *Acanthodactylus erythrurus* in *Halimium halimiifolium*  in open sun.

1006 hrs, juvenile *Acanthodactylus erythrurus* in shade of *Corema album*.

1014 hrs, juvenile *Acanthodactylus erythrurus* in open sun/*Corema album*.

1016 hrs, juvenile *Acanthodactylus erythrurus* shot in open sun. TB < 33.9°C.

1029 hrs, (calculated at 17.7°C) juvenile *Psammodromus algirus*  in open sun.

1031 hrs, (calculated at 17.7°C) juvenile *Psammodromus algirus*  in *Corema album*.

1034 hrs, adult *Psammodromus algirus*  shot in *Juniperus phoenicea*. TB = 35.3°C.

1044 hrs, juvenile *Acanthodactylus erythrurus* in open sun.

1049 hrs, juvenile *Acanthodactylus erythrurus* in open sun.

1051 hrs, (calculated at 18.3°C) juvenile *Psammodromus algirus*  in open sun/*Corema album*.

1054 hrs, juvenile *Acanthodactylus erythrurus* in open sun/*Corema album*.

1056 hrs, juvenile *Acanthodactylus erythrurus* in open sun/*Corema album*.

1102 hrs, 2 adult *Acanthodactylus erythrurus* in open sun.

1103 hrs, juvenile *Acanthodactylus erythrurus* in direct sun.

1115 hrs, 22.8°C.

1120 hrs, juvenile *Acanthodactylus erythrurus* in open sand.

1123 hrs, adult *Psammodromus algirus*  in open sand near *Juniperus phoenicea*.

1125 hrs adult *Acanthodactylus erythrurus* shot in open sand. TB = 39.9°C.

1129 hrs, adult *Acanthodactylus erythrurus* shot in open sun. TB = 35.3°C.

1137 hrs, juvenile *Acanthodactylus erythrurus* shot in open sun. TB = 34.4°C.

1139 hrs, juvenile *Acanthodactylus erythrurus* in open sun.

1144 hrs, adult *Psammodromus algirus*  shot in *Juniperus phoenicea*. TB = 36.2°C.

1147 hrs, 2 juvenile *Acanthodactylus erythrurus* in open sun.

1148 hrs, juvenile *Acanthodactylus erythrurus* in open sun.

1151 hrs, juvenile *Acanthodactylus erythrurus* in open sun.

1152 hrs, juvenile *Acanthodactylus erythrurus* in open sun.

1157 hrs, juvenile *Acanthodactylus erythrurus* in *Corema album*.

1202 hrs, juvenile *Acanthodactylus erythrurus* in *Corema album*.

1206 hrs, juvenile *Acanthodactylus erythrurus* in open sand.

1211 hrs, adult *Acanthodactylus erythrurus* shot in open sand. TB = 37.8°C.

1215 hrs, juvenile *Acanthodactylus erythrurus* in open sun.

1217 hrs, juvenile *Acanthodactylus erythrurus* in open sun/sand.

1218 hrs, juvenile *Acanthodactylus erythrurus* in open sand/sun.

1225 hrs, adult *Acanthodactylus erythrurus* in *Corema album*

1229 hrs, juvenile *Acanthodactylus erythrurus* in open sun/sand.

1234 hrs, juvenile *Acanthodactylus erythrurus* in open sun/sand.

1240 hrs, adult *Acanthodactylus erythrurus* shot in open sand/sun. TB = 37.3°C.

1244 hrs, adult *Acanthodactylus erythrurus* shot in open sun, *Halimium halimiifolium*.

TB = 37.7°C.

1248 hrs, adult *Acanthodactylus erythrurus* shot in open sun, *Corema album*. TB = 37.4°C.

1253 hrs, adult *Acanthodactylus erythrurus* shot in open sand/sun. TB = 39.9°C.

1971, 16 October, La Algaida (N36.862136 W6.302683) -2-

1257 hrs, adult *Acanthodactylus erythrurus* in open sun.

1259 hrs, adult *Acanthodactylus erythrurus* shot in open sun/*Corema album*. TB = 36.8°C.

1306 hrs, adult *Acanthodactylus erythrurus* in *Corema album*.

1308 hrs, juvenile *Acanthodactylus erythrurus* in *Corema album*.

1313 hrs, adult *Acanthodactylus erythrurus* in open sand.

1318 hrs, adult *Acanthodactylus erythrurus* in open sand.

1322 hrs, (calculated at 19.9°C) juvenile *Psammodromus algirus*  in *Corema album*.

1324 hrs, adult *Acanthodactylus erythrurus* in open sun.

1337 hrs, adult *Acanthodactylus erythrurus* shot in open sun/*Corema album*. TB = 38.8°C.

1340 hrs, adult *Acanthodactylus erythrurus* shot in open sun/*Corema album*. TB = 38.7°C.

1342 hrs, juvenile *Acanthodactylus erythrurus* in open sand.

1343 hrs, adult *Psammodromus algirus*  in open sand.

1349 hrs, adult *Acanthodactylus erythrurus* in *Corema album*.

1359 hrs, adult *Acanthodactylus erythrurus* shot in *Corema album*. TB = 38.5°C.

1414 hrs, 24.4°C.

15 October 1971 Black body Temperatures

|  |  |  |  |
| --- | --- | --- | --- |
| Time | Sun | Open Shade | Sky |
| 1405 hrs | 52.5°C | 30.0°C | Clear/breeze |
| 1437 hrs | 49.5°C | 28.5°C | Clear/wind |
| 1504 hrs | 48.0°C | 27.0°C | Clear/wind |
| 1531 hrs | 43.0°C | 27.0°C | Clear/wind |
| 1600 hrs | 45.0°C | 26.5°C | Clear/wind |
| 1626 hrs | 44.0°C | 26.5°C | Clear/wind |
| 1706 hrs | -- | 26.0°C | Clear/wind |

16 October 1971 Black body Temperatures

|  |  |  |  |
| --- | --- | --- | --- |
| Time | Sun | Open Shade | Sky |
| 0850 hrs | -- | 17.0°C | Cloudy/still |
| 0907 hrs | 25.0°C | 18.5°C | Cloudy/still |
| 0938 hrs | 28.5°C | 20.5°C | Haze/still |
| 1003 hrs | 35.0°C | 22.0°C | Haze/still |
| 1036 hrs | 31.5°C (haze) | 23.0°C | Haze/still |
| 1101 hrs | 43.0°C | 25.5°C | Haze/breeze |
| 1131 hrs | 44.0°C | 26.5°C | Clear/breeze |
| 1203 hrs | 41.0°C | 28.0°C | Haze/still |
| 1235 hrs | 43.0°C | 29.0°C | Clear/breeze |
| 1304 hrs | 43.0°C | 30.0°C | Clear/breeze |
| 1329 hrs | 45.5°C | 30.9°C | Clear/breeze |
| 1402 hrs | 38.0°C | 29.5°C | Clear/wind |

*Acanthodactylus erythrurus* (CMFS 22639-22656[5]; CM 55659[22]).

*Psammodromus algirus*  (CMFS 22657-22659; CM 55660-55662).

1971, 17 October, Vejer de la Frontera (N36.26089 W5.96476), N-340

17.1 mi. SSE, 1050 hrs, 22.2°C, *Macroprotodon brevis* DOR.

1971, 17 October, Facinas (N36.14768 W5.70281), CA-221

5.9 mi. NE, 1111 hrs, 22.2°C, *Timon lepidus* (CMFS 22666-22668; CM 55669-55671) shot from

rock.

6.2 mi. N, 1120 hrs, 26.7°C, *Tarentola mauritanica* (CMFS 22660-22661; CM 55663-55664)

collected.

6.2 mi. N, 1120 hrs, 26.7°C, 2 *Podarcis vaucheri* (CMFS 22662-22665; CM 55665-55668)

collected.

6.2 mi. N, 1120 hrs, 26.7°C, one fresh *Malpolon monspessulanus* slough found in culvert. No

others seen.

6.4 mi. NE, 24.4°C, in a shaded *Quercus suber* area, culvert and retaining wall, *Tarentola*

*mauritanica* seen.

6.4 mi. NE, 24.4°C, 3 *Podarcis vaucheri* seen, one of which was shot (CMFS 22662-22665; CM

55665-55668) in a shaded *Quercus suber* area, culvert and retaining wall.

6.9 mi. NE, 1140 hrs, 25.0°C, sub-adult *Timon lepidus* (CMFS 22666-22668; CM 55669-55671)

shot while sunning.

7.0 mi. NE, 1145 hrs-1150 hrs, 23.9°C, *Tarentola mauritanica* (CMFS 22660-22661; CM

55663-55664) collected in area of a large bridge.

7.0 mi. NE, 1145 hrs-1150 hrs, 23.9°C, 2 *Podarcis vaucheri* seen in area of a large bridge.

10.0 mi. NE, 1210 hrs, 26.7°C, *Podarcis vaucheri* on bridge.

10.1 mi. N, 1213 hrs, 28.3°C, juvenile *Malpolon monspessulanus* crossing the highway. Crossed

with head ~8” above pavement.

10.4 mi. N, 1222 hrs, 25.6°C, *Timon lepidus* seen.

10.4 mi. N, 1222 hrs, 25.6°C, 2 *Podarcis vaucheri* seen, *Podarcis vaucheri* (CMFS 22662-

22665; CM 55665-55668) shot on bridge abutment.

10.6 mi. N, 1225 hrs, 27.2°C, *Timon lepidus* on side of wall, escaped into retaining wall.

12.9 mi. N, 1244 hrs, 28.9°C, juvenile *Podarcis vaucheri* on retaining wall.

13.1 mi. N, 1246 hrs, 28.9°C, adult *Timon lepidus* (CMFS 22666-22668; CM 55669-55671) shot

in drain opening.

1971, 17 October, Los Barrios (N36.18209 W5.48920), C-440 (1969-1972)

5.3 mi. W, juvenile *Timon lepidus* (CMFS 22669; CM 55672) shot off side of retaining wall.

11.4 mi. W, 1325 hrs, 26.7°C, *Podarcis vaucheri* on bridge.

1971, 17 October, Casas del Castaño (N36.30792 W5.59662), C-440

12.8 mi. WNW, juvenile *Malpolon monspessulanus*.

1971, 17 October, 0.4 mi. S of intersection C-440 with A-2228 to Benalup de Sidonia (N36.44342 W5.74727), 1422 hrs, 31.1°C, adult *Timon lepidus* (CMFS 22670; CM 55673) shot in dry area of culvert.

Provincia de Jaén

1971, 23 October, Cordoba-Jaén Province line on N-IV(A4-E5) (N37.98764 W4.27097)

1630 hrs, 13.3°C, *Malpolon monspessulanus* AOR.

1971, 23 October, Cazorla (Benchmark) (N37.91317 W3.00283)

16 mi. NE (Jf-7092, ~N37.89075 W2.94563) in the Coto Nacional (Sierra Segura or Sierra de Cazorla), *Blanus cinereus* (CMFS 22678; CM 55676) collected in *Pinus* (*pinaster*?) needle covered sandy substrate.

1971, 24 October, Cazorla (Benchmark) (N37.91317 W3.00283)

19.2 mi. NE (Jf-7092, ~N37.85675 W2.97370), 1050 hrs, 17.2°C, *Podarcis hispanicus* (?) on

rock outcropping.

23.3 mi. NE (~N37.84039 W2.96158) on road (V-710) to Nacimiento de Guadalquivir, 1115 hrs,

18.9°C, *Timon lepidus* on a rock.

13 km. up road from sign to Nacimiento is a pine area seemingly set up for camping

(~N37.83783 W2.97184), 1500 hrs, 14.4°C, overcast with intermittent rain, juvenile *Psammodromus algirus* (CMFS 22679; CM 55677) collected on a large outcropping of granite near the pine forest.

1971, 24 October, Payal (Peal) de Becerro (Benchmark) (N37.91365 W3.12175)

±2.0 mi. NW (N37.93642 W3.15724) on road (A-315) to Ubeda, juvenile *Rhinechis scalaris*

DOR.

1971, 24 October, Torreperogil (Benchmark) (N38.03484 W3.29144)

0.6 mi. SW (N-322, N38.03215 W3.30880) juvenile *Hemorrhois hippocrepis* DOR.

Provincia de Cádiz

1971, 27 October, Rota, Bunker, 2.6 mi NW (bearing 312°, N36.645574 W6.390367) Approximately 1½-2 mi. W on Chipiona Road, 11 *Tarentola mauritanica* (CMFS 22682-22692; CM 55680) *Hemidactylus turcicus* (CMFS 22693-22697; CM 55681-55685) collected in a “pill box” next to 2 new houses in a fairly barren field. [Photo attached]

1971, 28 October, Rota, Bunker, 2.6 mi NW (bearing 312°, N36.645574 W6.390367)

2 *Tarentola mauritanica* (CMFS 22698-22700; CM 55686-55688) collected.

1971, 3 November, Base Naval de Rota, General (Benchmark) (N36.637383, W6.346438, 20 M)

*Natrix maura* (CMFS 22701; CM 55689). Miguel Moya collection.

1971, 20 November, La Algaida (N36.862136 W6.302683)

1104 hrs, 12.2°C.

1138 hrs, 13.9°C.

1200 hrs, 13.3°C.

Nothing of interest noted.

1971, 20 November, Rota, Bunker, 2.6 mi NW (bearing 312°, N36.645574 W6.390367)

In area of “pillbox”, 1½-2 mi. W, 18.9°C (outside), 3 *Tarentola mauritanica* (CMFS 22703-22705; CM 55691-55693) and *Hemidactylus turcicus* (CMFS 22702; CM 55690) collected. Several (7+) other *Tarentola* seen.

1971, 21 November, La Algaida (N36.862136 W6.302683)

1245 hrs, 15.6°C.

1250 hrs, juvenile *Acanthodactylus erythrurus* collected on hill exposed to direct sun. TB =

37.4°C. 1309 hrs, 2 red deer (*Cervus* ) in area.

1344 hrs, *Psammodromus algirus* in *Pistacia lentiscus*.

1356 hrs, juvenile *Acanthodactylus erythrurus* in *Corema album* while sunning.

1404 hrs, juvenile *Acanthodactylus erythrurus* sunning near *Corema album*.

1410 hrs, adult *Acanthodactylus erythrurus* in *Juniperus phoenicea*.

1411 hrs, 2 juvenile *Acanthodactylus erythrurus* sunning.

1420 hrs, juvenile *Acanthodactylus erythrurus* sunning in open sand.

1422 hrs, juvenile *Acanthodactylus erythrurus* sunning in open sand.

1424 hrs, juvenile *Acanthodactylus erythrurus* sunning in open sand.

1426 hrs, juvenile *Acanthodactylus erythrurus* collected in sun near *Corema album*.

TB = 35.2°C.

1429 hrs, juvenile *Acanthodactylus erythrurus* collected in *Corema album*. TB < 34.2°C.

1436 hrs, 2 juvenile *Acanthodactylus erythrurus* under *Juniperus phoenicea*.

1444 hrs, juvenile *Acanthodactylus erythrurus* in *Juniperus phoenicea*.

1448 hrs, juvenile *Acanthodactylus erythrurus* in *Corema album*.

1453 hrs, juvenile *Acanthodactylus erythrurus* in *Corema album*.

1459 hrs, juvenile *Acanthodactylus erythrurus* in open sun.

1502 hrs, juvenile *Acanthodactylus erythrurus* in open sun.

1512 hrs, juvenile *Acanthodactylus erythrurus* in open sand.

1524 hrs, juvenile *Acanthodactylus erythrurus* in open sand.

1526 hrs, 2 juvenile *Acanthodactylus erythrurus* in open sand.

1535 hrs, 17.2°C.

1971, 21 November, Black Body Temperatures

|  |  |  |  |
| --- | --- | --- | --- |
| Time | Sun | Open Shade | Sky |
| 1300 hrs | 40°C | 19°C | Clear/calm |
| 1330 hrs | 40°C | 19°C | Clear/calm |
| 1400 hrs | 40°C | 22°C | Clear/calm |
| 1430 hrs | 39.5°C | 23°C | Clear/calm |
| 1520 hrs | 39°C | 22°C | Clear/calm |
| 1530 hrs | 41°C | 19.5°C | Clear/calm |

*Acanthodactylus erythrurus* (CMFS 22711-22713; CM 55699-55701).

1971, 21 November, Rota, Bunker, 2.6 mi NW (bearing 312°, N36.645574 W6.390367)

1½-2 mi. W in “pillbox” area, 5 *Tarentola mauritanica* (CMFS 22706-22710; CM 55694-55698) collected in pillbox, 1 juvenile *Hemorrhois hippocrepis* (CMFS 22714; CM 55702) collected in stone walkway.

1971, 30 November, Rota (N36.62899 W6.35430)-Chipiona (N36.70769 W6.41560) Road

2100 hrs-2200 hrs, 11.7°C, after heavy daily rains for 2 days, 14 *Pelobates cultripes* (CMFS 22715-22722 [7]; CM 55717[14]), *Epidalea calamita* (CMFS 22723-22725; CM 55718-55720), *Hyla meridionalis* (CMFS 22726; CM 55721), *Pelodytes ibericus* (CMFS 22727; CM 55722) collected AOR.

1971, 06 December, Base Naval de Rota, General (~N 36.627812 W6.331415)

*Tarentola mauritanica* (CMFS 22728; CM 55723) and gravid *Chamaeleo chamaeleon* (CMFS 22729; CM 55724) Miguel Moya collection.

1971, 09 December, Rota (N36.62899 W6.35430)-Chipiona (N36.70769 W6.41560) Road

2 *Pelobates cultripes* (CMFS 22730-22731; CM 55725-55726) collected AOR during slight rainfall.

1971, 10 December, Base Naval de Rota, General (~N 36.627812 W6.331415)

Juvenile *Hemidactylus turcicus* (CMFS 22732; CM 55727) collected on the Naval Base under a log, *Pleurodeles waltl* found in the area. Miguel Moya collection.

1971, 11 December, Rota (Benchmark) (N36.62498 W6.36864)

~1-2 mi. W, *Tarentola mauritanica* (CMFS 22733-22739; CM 55728[7]). Miguel Moya collection.

1971, 21 December, Base Naval de Rota, General (~N 36.627812 W6.331415)

*Rhinechis scalaris* (CMFS 22863; CM 55767), under cement block. Miguel Moya collection.

1971, 26 December, Base Naval de Rota, General (~N 36.627812 W6.331415)

*Chamaeleo chamaeleon* (CMFS 22740-22741; CM 55729-55730). Robert Morsfield, HM2