

#21107C
2022-23 GJ BCPE Conservation and Monitoring
Ernst Rupp, Grupo Jaragua

Date of Report: November 29, 2023

Prepared for Brad Keitt, American Bird Conservancy

1. Predator control

1.a. At Valle Nuevo

a.i. Implement intensive mongoose control with Tomahawk live traps

Nine Tomahawk traps (32x10x12 inches) were placed within the nesting area. Smoked herring was used as bait. It has the advantage of a very strong smell, and at the same time does not get easily rotten in moist conditions due to frequent rains. Traps were checked monthly from October 2022 to January 2023 and bi-weekly from February 2023 to April 2023. Closed traps were reopened and all traps were newly baited during revision. The tomahawk traps were monitored by cameras traps.

In addition, eight A24 GoodNature traps were maintained during the season.

a.ii. Monitor efficacy of mongoose control

From October 2022 to May 2023 a total of ten mongooses were caught inside the Tomahawk traps (see Appendix 1 for detailed protocol). This means a fivefold increase of caught animals between the 2021/22 season and the 2022/23 season.

Camera trap photos also documented eleven occasions when mongooses tried to enter a closed trap repeatedly (see Appendix 1). When finding the traps closed, these mongooses circled traps aggressively for a long period of time before abandoning their intentions.

Trap doors get easily closed by rats being caught. Heavy rain can also shut down trap doors. In addition, baits may lose their strong scent during rain or may get washed out completely. Rats also eat the pieces of herring and leave the traps without any attractive bait. Closed traps or traps without baits have limited the maximum possible efficacy of mongoose control during the 2022/23 season.

In two cases (nest VN19 and nest VN20), the cameras traps documented a mongoose taking the chick out of the nest. In both cases the nearby traps were closed at the time of the mongoose attack.

During the upcoming 2023-2024 season, a more frequent revision of traps is needed than was possible during the 2022/23 season, especially during the time when chicks are left alone in nests (February to April). We propose continuous monitoring during this most critical time, revising the traps every three days. A continuous presence of part of the Diablotin team would therefore be advised at Valle Nuevo during this time frame. At the same time this would give the chance to do additional nest search during the time work is not done on mongoose control.

During the new season we will discontinue using A24 GoodNature traps. We have not seen any positive results of these traps to control mongooses. In addition, it is most difficult to find replacement CO2 cartridges in the Dominican Republic. Getting them ordered from the USA is not possible, since air transport is not permitted and sea shipping is not cost-effective.

1.b. At Loma del Toro

b.i. Keep dogs out of the colony, and control feral cats and mongoose.

b.ii. Maintain nests dog-proof by securing entrances and burrows

Nests were visited at beginning and during the nesting season, and where necessary, reinforced with rocks or wood to ensure that dogs would not be able to excavate them. See Appendix 2. Six of the known or damaged burrows in the Loma del Toro colony were replaced with artificial boxes in late 2021. All relevant nests were monitored with camera traps.

b.iii. Monitor and evaluate artificial burrows as a proof of concept effort for protecting nesting birds from attacks by dogs or other nest-excavating predators.

The six artificial burrows replacing nests destroyed by dogs have now been monitored for two seasons since the dog attacks during the 2020/21 season. Except for nest JGP2 which was only visited once (on 31 October 2021), all the other artificial burrows have been accepted and were frequented by petrels during the 2021/22 and 2022/23 season (see Table 1).

Although no artificial nest was successful with fledging a chick during the 2021/22 season, two nests with artificial boxes (TRO8 and TRO17) did show chicks practicing their wings during the 2022/23 season. Camera monitoring showed that nest TRO8 even was visited by two dogs shortly before the final take off of the fledging no negative action from the dogs against the chick was documented.

The only case of a dog attack happened at nest EST1. This nest was not damaged by dogs during the 2020/21 attacks. On 01 June 2023, a dog was able to reach inside the nest with its paws and grabbed the chick. Although the nest was well protected by rocks, we suspect that the chick itself was sitting very close to the entrance and the dog was able to reach it. After this disaster, we rebuilt the nest in a way that prolonged the entrance to a distance that would not allow dogs to reach any bird inside the nest.

Cats were registered occasionally but seem not to bother to investigate nests. No predation by cat was documented in 2022/23.

For the first time the presence of a mongoose was documented at Loma del Toro. A photo of a mongoose was taken on 23 January 2023 at 08:34 at nest TRO15. The animal shortly stuck its head into the nest entrance and then continued to move on. No other proof of mongoose presence has been registered on camera trap photos since then.

Rats continue to appear on photos of practically all the cameras placed. At nest TRO9, a rat exited the burrow with an egg in its mouth on 19 April 2023 at 02:39. No petrel was present in the nest at the time. The two previous visits by a petrel were the night before between 22:29 on 17 April and 00:48 on 18 April, and between 01:00 on 03 April and 22:53 on 05 April. Petrels were not recorded after the rat predation. Camera trap photos taken in the days before the predation suggest that the egg may have been infertile and abandoned by the petrels, before the rat took it opportunistically.

Table 1: Fate of nests altered after dog attacks over five seasons of monitoring (18/19 indicates the breeding season beginning in 2018 and continuing into 2019).

nest	changes made to nest after dog attack	Results 22/23	Results 21/22	Results 20/21	Results 19/20	Results 18/19
JGP02	complete artificial box with tunnel installed inside nest	abandoned	last photo adult 31.10.21	dogs	fledged	fledged
TRO02	artificial box installed inside destroyed nest	last photo adult 18.11.22	last photo adult 14.12.21	dogs	fledged	fledged
TRO08	artificial box placed inside nest	Chick fledged 7.7.23	last photo adult 21.4.22	dogs	abandonend	fledged
TRO09	artificial box placed inside nest	last photo adult 18.4.23	last photo adult 24.3.22	dogs	abandonend	fledged
TRO15	wooden tunnel and box placed inside nest	Last photo adult 21.3.23	last photo adult 2.4.22	dogs	fledged	fledged
TRO17	artificial box placed inside nest	Chick fledged 6.7.23	last photo adult 14.3.22	dogs	abandonend	eggs outside nest
ca3	artificial box placed at new location	adult presence until marzo/abril				

1.c. Efficacy of predator control efforts will be monitored by tracking the fate of as many nests as possible at each site using a combination of techniques including camera traps and traditional nest monitoring.

Table 2 shows the fate of monitored nests at Valle Nuevo, Loma del Toro and Loma Quemada. The total of nests monitored was 29 at Valle Nuevo, 31 at Loma del Toro, and seven at Loma Quemada. 23 nests were active (showing presence of petrels during the season) at Valle Nuevo, 21 at Loma del Toro and six at Loma Quemada. Successful fledging was documented at three nests at Valle Nuevo, three at Loma del Toro, and five at Loma Quemada, which brings fledging success to 13.04%, 14.29%, and 83.33% respective to the mentioned sites.

At Valle Nuevo adult activity was documented with camera traps, visually, and based on detection of strong odor for 23 nests (see details in Appendix 3). Of these nests only three had fledglings. Seven nests showed signs of activity, but it was not possible to define the actual outcome because cameras were malfunctioning, or cameras could not be placed to monitor the nest because of the extreme steepness of the terrain. In the end no signs of a chick were detected. Direct negative mongoose impact was documented for two nests. At two additional nests, some predator impact seemed to have occurred. Photos of adult petrels were taken at seven nests. For five of these nests the last photo of an adult bird was taken between March 20 and April 16. It is not quite clear, why there was abandonment during the mentioned period. At two nests, a bird visited shortly during October without showing much interest to stay. One dead chick was detected with the endoscope within nest VN22 on April 22, 2023 seemingly unharmed. At nest VN16 an adult bird was found dead and seemingly unharmed at the nest entrance on December 13, 2022.

Table 2: Results from the 2022/2023 season for nests tracked at Valle Nuevo, Loma del Toro and Loma Quemada.

results 23	Valle Nuevo	Loma del Toro	Loma Quemada
not active from start	6	10	1
photos of adults	7	13	1
predator impact	4	3	0
Active, but no clear result	7	0	0
fledged	3	3	5
dead unharmed adult outside nest	1	0	0
dead unharmed chick inside nest	1	0	0
infertile egg or abandoned egg	0	2	0
Total	29	31	7
active	23	21	6
% fledging to active nest	13,04	14,29	83,33

At Loma del Toro, adult activity was documented with camera traps, visually, and/or based on strong odor for 22 nests (see Appendix 3 for details). Direct predator impact was documented for one chick inside nest EST1 on 01 June 2023, which was predated by a dog (see 1.b.iii above for details). Remains of two chicks were also found at nest TRO1 and TRO13 on May 11, 2023. At TRO1, the chick remains (mostly down feathers) were inside the nest. A camera had continuously been working at the entrance of the nest taking photos, but no direct predator entering the nest was detected. At TRO13, the remains of the chick were found in little heaps outside the nest. Due to the malfunctioning of the camera, it was not possible to document any cause of death of the chick. Three chicks were documented to have fledged, based on photos taken by the cameras. Two abandoned eggs were documented at TTRO4 and TRO14, one of which was taken away by a rat on 19 April 2023 (see 1.b.iii above for details).

At 13 nests, adult activity of entering and leaving the nest could be documented with cameras. For 10 of these nests the final date of appearance of the birds was between 16 March 2023 and 21 April 2023. Still the question remains of what may be the cause of the abandonment during this time frame: does it have to do with the dog impact on the nests two years before during the 2020/21 season, or was the abandonment related to some other cause (food shortage, no brooding of eggs?).

Three more birds abandoned their nests even earlier and were last seen on 18 November 2022, 29 December 2022, and 17 February 2023, respectively.

2. Find new nests at suspected sites on Hispaniola.

2.a. Searches will be conducted at Valle Nuevo, Loma del Toro, Zapoten and Loma Quemada as part of the predator control and monitoring trips.

Nest search at Valle Nuevo resulted in 7 new nests found (see table 3). All of them were found in extremely steep terrain. Therefore, it was practically impossible to install camera traps and the follow up on the nests was done in the traditional way of checking the nests visually and odor-wise. Only one nest was successful with definitive signs of the chick having fledged. One nest was found with parts of a dead chick. Another nest had egg shells. Three nests did show signs of being actively visited by birds, but in the end no clue of any fledging chick was found at those nests.

Table 3: New nests located in Valle Nuevo in the 2022/2023 season. Location data are NAD27.

nest	E	N	Results 2023
25	33.1271	20.61944	nest found in active state, but final results negative
26	33.1269	20.61943	nest found with rests of chick outside
27	33.1261	20.61935	nest found in active state, but final results negative
28	33.1266	20.61931	eggs shells found, but no sign of chick
29	33.1223	20.61899	chick fledged
30	33.1222	20.61898	nest found in active state, but final results negative
31	33.1180	20.61762	nest found in active state, but final results negative

Nest searching at Loma Quemada did not lead to any additional nests. The area of Zapoten was not searched during the 2022/23 season.

3. Increase artificial nests at Loma del Toro

3.a Produce six additional artificial burrows (wooden boxes and/or cement boxes)

3.b Install six boxes at Loma del Toro

Eleven additional wooden boxes, most with corresponding entrance tunnels were placed at likely locations in the Loma del Toro site between February and May 2022. Based on the good occupation numbers of nest boxes in burrows, the same measurements were used as before: 70 cm (length) x 40 cm (width) x 30 cm (height). The wooden tunnels were 20 cm long, with a width and height of 15 cm. The material was pine board of 3 cm thickness. Additionally, the boxes were painted with nontoxic wood varnish to make them longer lasting by protecting against decay due to the high humidity prevailing at the nesting sites of Loma del Toro.

Note: Another six boxes were installed at sites of Loma del Toro during October 2023 (see table 4).

At the same time, three boxes were transported to and placed at Morne Vincent in Haiti to be installed within nests destroyed by dogs during the 2022-23 season.

As of November 2023, a total of 17 nest boxes are now present at new locations, near or next to known burrows at Loma del Toro. As shown in table 4, nest box 3 was occupied by an adult during the 22/23 season. The cameras placed at boxes 5, 6, and 7 showed passage of birds, but no occupation occurred.

Table 4: Details on the 17 artificial nests installed at Loma del Toro between March 2022 and October 2023. These are all new sites and did not replace old nests.

box	camera	coordinates		site and comments	date installation	type of box	Results 22	Results 23
		E NAD27	N NAD27					
1	cn01	213347	2024083	trail to nest tro 11	16.03.22	without tunnel		
2	cn03	213346	2024083	trail to nest tro11	16.03.22	without tunnel		
3	cn02	213323	2024094	close to nest 12	12.05.22	Wooden tunnel broken and removed		adult bird present until March/April
4	cn04	213315	2024100	left side of nest 12	12.05.22	with tunnel		
5	cn10	213323	2024123	below nest 17	16.03.22	with tunnel		passage bird
6	c49	213379	2024160	beside nest 18	17.03.22	with tunnel		passage bird
7	c28	213373	2024160	above nest 18	17.03.22	with tunnel		passage bird
8		213017	2024283	right side of nest nv 1	02.02.22	with tunnel		
9		212984	2024295	below nest nv1	02.02.22	with tunnel		
10		212993	2024264	part above nv2	02.02.22	with tunnel		
11		213018	2024018	above nest nv2	03.02.22	with tunnel		
boca1		213014	2024374	below nv1	03.02.22	only tunnel		
12	cn11	213360	2024089	30 m above nest 6	18.10.23	with tunnel		
13	c83	213350	2024108	15 m below nest 19	18.10.23	with tunnel		
14	c67	213317	2024107	between nests 17 and 5	18.10.23	with tunnel		
15		213363	2024162	below nest 8	19.10.23	with tunnel		
16		213362	2024167	below nest 8	19.10.23	with tunnel		
17		213361	2024173	below nest 8	19.10.23	with tunnel		

Additional nest boxes will be built during the 2023/24 season to increase nesting cavities at Loma del Toro and Morne Vincent.

3.c Record calls of BCPE at nests with ARU-s to have sound material for social attraction

Four ARU-s were placed close to active nests at Loma del Toro in January 2023. SD cards and batteries were replaced in March and May and the four units were retrieved in July 2023. The SD cards were sent to Yvan Satgé for further processing and analysis.

Appendix 1 Presence of Mongooses Valle Nuevo 2023

Fecha	hora	nv1	nv2	nv4 boca1	nv4 boca2	A8	A6 BT-22	nv5	BT-13	nv8	BT-03	A4 BT-21 c34	nv9
05/10/22	13:18									entrando saliendo			
05/10/22	14:36											chequeado trampa caja cerrada	
05/10/22	15:00												
11/10/22	11:56									entrando saliendo			
12/10/22	17:28												
13/10/22	09:52												
23/10/22	14:34							pasando					
06/11/22	15:40							entrando					
06/11/22	15:56	mirando brevemente nido, luego pasando trampa											
09/11/22	09:46	pasando trampa, posiblemente entrando esa hora encontrado vivo dentro de la trampa											
11/11/23	no hora												
13/11/22	10:30	acercando trampa											
14/11/22	06:54	Tres hurones acercando y entrando trampa											
18/12/22	17:02									pasando trampa con pequeño			
18/12/22	17:03							entrando y saliendo					
21/12/22	12:38				saliendo								
23/12/22	12:38						rodeando y entrando trampa haula						
23/12/22	16:21												
26/12/22							chequeando trampa automática, no entra cabeza						
01/01/23	16:21												
03/01/23	13:15						entrando cabeza a trampa automática, no seguimiento por cámara						
03/01/23	13:20				chequeando trampa cerrada al lado del nido								
18/02/2023								entrando saliendo					
22/02/2023	09:01							entrando					
22/02/2023	09:05							saliendo					
25/02/23	13:40							entrando saliendo					
27/02/23	09:41												
27/02/23	10:16												
27/02/23	14:11												
01/03/23	14:25						pasando						
02/03/23	08:26												
02/03/23	16:24												
03/03/23	08:32												
05/03/23	15:48						pasando						
12/03/23	16:24										tratando entrar trampa BT3 hasta 17:30		
12/03/23	16:25									tratando entrar trampa hasta 17:32			
13/03/23	05:36										vuelve tratando entrar hasta 9:48		
13/03/23	05:37									vuelve tratando entra hasta 9:49			
16/03/23	13:55												
16/03/23	13:56												
16/03/23	13:58												

presencia hurones

17/03/23	07:29									pasando trampa (juvenil?)										
18/03/23	07:59		entrando																	
18/03/23	08:03																			
18/03/23	11:46									pasando trampa (juvenil?)										
18/03/23	11:54		entrando							pasando										
18/03/23	12:01										chequeando entrada trampa, entrando trampa, saliendo									
18/03/23	12:50								frente nido											
18/03/23	15:58																			
19/03/23	07:22										entrando trampa (juvenil?), trampa cierra									
20/03/23	06:53										hurón parece vivo hasta esa hora, luego no más									
22/03/23	17:11																			
26/03/23	13:37										otro hurón chequeando trampa cerrada por 4 minutos									
26/03/23	13:43		saliendo																	
26/03/23	15:21								frente nido											
29/03/23	11:53																			
31/03/23	13:58		saliendo																	
31/03/23	10:00										entrando trampa y cierra									
01/04/23	13:07										hurón sin vida									
09/04/23	12:10																			entrando
09/04/23	12:12																			saliendo
14/04/23	14:34								saliendo, entrando											
14/04/23	14:36																			
14/04/23	14:37								frente nido											
14/04/23	17:06																			
15/04/23	07:38																			saliendo
19/04/23	10:46																			entrando
19/04/23	10:58																			saliendo
20/04/23	15:15																			
20/04/23	17:21																			
22/04/23	15:14										chequea trampa, pero no entra									
22/04/23	15:22									entrando saliendo										
22/04/23	15:28																			
22/04/23	15:31																			
22/04/23	15:36		frente nido																	
25/04/23	00:14																			entrando y saliendo
27/04/23	15:22																			
01/05/23	14:29																			
09/05/23	12:55								hurón entrando	hurón saliendo										
09/05/23	12:57									entrando trampa										
11/05/23	12:59									último movimiento hurón visto en fotos										
17/05/23	16:34																			

Appendix 2 Nest Changes and Fate LOTO and LQ 2023

nest	changes made to nest after dog attack	Comments	Results 23	Results 22	Results 21	Results 20	Results 19
JGP01	tunnel altered	small wooden tunnel in entrance, nest itself not changed	abandonend	abandonend	dogs	doubtful	fledged
JGP02	artificial box with tunnel placed inside nest		abandonend	last photo adult 31.10	dogs	fledged	fledged
nv1	no change to nest		Fledged 5.7.23	last photo adult 13.4	fire	abandonend	not revised
nv2	no change to nest		not revised	doubtful	fire	abandonend	active, no chick
TRO01	no changes to nest	sides of nest reinforced with rocks and wooden stakes to prevent dogs from digging into nest	rests of chick inside nest, no predator on photos, adult last seen 6.5	fledged 15.7	dogs	abandonend	fledged
TRO02	nest box installed within nest	nest was reached by fire during previous season	last photo adult 18.11.22	last photo adult 14.12	dogs	fledged	fledged
TRO03	original tunnel altered and reinforced with rocks	side of nest reinforced with pine trunk	last photo adult 12.4.23	last photo adult 7.4	dogs	doubtful	active, no chick
TRO05	wooden tunnel installed	sides of nest reinforced with rocks and wooden stakes to prevent dogs from digging into nest	Last photo two adults 26.3.23	last photo adult 15.4	abandonend	fledged	fledged
TRO06	Nest and tunnel not changed	protection of rocks and wooden stakes placed on side where dogs intervened	Last photo adult 16.3.23	last photo adult 22.6, chick fledged 24.7	dogs	fledged	fledged
TRO08	artificial box placed within nest	Entrance not altered	Chick fledged 7.7	last photo adult 21.4	dogs	abandonend	fledged
TRO09	artificial box placed within nest	Entrance not altered	last photo adult 18.4.23, rat with egg 19.4.23	last photo adult 24.3	dogs	abandonend	fledged
TRO12	no change to nest		last photo adult 21.4.23	adult present until march/abril	dogs	fledged	fledged
TRO13	no change to nest		rests of chick in several small heaps outside nest, no information on cause of death because of malfunctioning of camera	adult dead(possible exhaustion), no predator impact	dogs	abandonend	active, no chick
TRO14	no change to nest		abandonend	doubtful	dogs	fledged	fledged
TRO15	wooden tunnel and box placed	original nest destroyed by dogs	Last photo adult 21.3.23	last photo adult 2.4	dogs	fledged	fledged
TRO 16	no change to nest		Last photo adult 14.4.23	adult present until march/april, egg shells close to nest	dogs	fledged	active, no chick
TRO17	artificial box placed within nest	Entrance not altered	Fledged 6.7.23	last photo adult 14.3	dogs	abandonend	eggs outside nest
TRO18	Entrance not changed	Nest had caved in due to fire. Sides and top reinforced with rocks and wooden stakes	not revised	abandonend	dogs	fledged	egg damaged
TRO19	Entrance changed	Entrance reinforced with rocks and wooden stakes	last photo adult 17.2.23	last photo adult 20.2	dogs	not monitored	not monitored
ca3	artificial box placed at new		adult presence until marzo/abril				
EST1	Entrance not changed	nest reinforced with rocks, again reinforced with rocks after dog attack in june 23	chick eaten by dog 1.6	fledged	dogs	fledged	fledged
EST2	Entrance not changed	sides of nest reinforced with rocks and wooden stakes to prevent dogs from digging into nest	Last photo adult 14.4.23	adult present until march/april	dogs	abandonend	fledged
TTRO2	Entrance not changed	Sides and top of nest reinforced with cement and rocks	nonhatched egg inside nest, last photo adult 12.5	last photo adult 13.4	dogs	fledged	fledged
TTRO4	Entrance changed	Entrance reduced in size with wooden stakes	abandonend	last photo adult 4.12	dogs	fledged	fledged
TTRO5	Entrance changed	front, sides and top of nest reinforced with rocks and cement	última foto ave 15.4.23	fledged 13.7	fledged	fledged	fledged
TTRO6	Entrance not changed	Rocks placed on sides of nest	última foto ave 31.3.23	fledged 27.6	fledged	abandonend	fledged
TTRO7	New nest established	nest had been completely destroyed by dogs. New nest excavated and reinforced and rebuilt with rocks	última foto ave 29.12.22	last photo adult 12.2	dogs	fledged	fledged
TTRO8	Entrance changed	nest reinforced with rocks	last photos adult 24.3	last photo adult 5.4	dogs	abandonend	fledged
TTRO9	Entrance not changed	nest reinforced on sides with wooden stakes	not revised	abandonend	dogs	abandonend	fledged
PRM1	no change to nest		fledged 25.6	last photo adult 17.3	fledged	fledged	fledged
PRM2	no change to nest		fledged on month late during daytime 24.7	Last photo adult 19.4	doubtful	doubtful	active, no chick
PRM3	no change to nest		abandonend	abandonend	abandonend	doubtful	active, no chick
PRM4	no change to nest		last photo adult 19.12	last photo adult 6.4	doubtful	doubtful	abandonend
PRM5	no change to nest		fledged 30.6	Last photo adult 29.4	fledged	doubtful	fledged
PRM6	no change to nest		Fledged 26.6	Last photo adult 30.3	fledged	fledged	doubtful
PRM7	no change to nest		fledged 30.6	fledged	fledged	abandonend	not monitored

Appendix 3 Nest Changes and Fate Valle Nuevo 2023				
nidos	fecha nido encontrado	Resultado 23	Resultado 22	Resultado 21
1	2017	no revisado	abandonado desde principio	abandonado desde principio
2	2019	última foto ave 16.4.23	nido fallado, última foto ave 15.3	hurón presente
3	2019	no revisado	abandonado desde principio	abandonado desde principio
4	2019	pichón voló	huevo tomado por hurón febrero 14	voló
5	2020	última foto ave 20.3.23, pichón parcialmente devorado al lado nido 11.2	nido fallado, última foto adulto 3.4	pichón matado por hurón
6	2020	no revisado	abandonado desde principio	abandonado desde principio
7	2020	nido nuevamente activo, pero no resultado positivo	abandonado desde principio	abandonado desde principio
8	2020	última foto ave 22.2, posible ataque hurón	nido fallado, última foto adulto 13.3	hurón presente
9	2020	última foto ave 7.4.23	nido fallado, última foto adulto 4.3	voló
10	2020	no revisado	abandonado desde principio	no revisado
11	2020	última foto ave 16.4.23	Nido fallado, última foto 25.3	pichón matado por hurón
14	2021	abandonado desde principio	hurón con pluma 14.3	nido poisiblemente activo a principio
15	2021	última presencia ave enero/febrero 2023	nido fallado, última foto 6.2	pichón matado por hurón
16	2021	ave adulto muerto fuera nido	nido fallado, última foto 19.3	pichón matado por hurón
17	2021	solo foto ave 8.10.22	nido fallado, última foto 26.2	pichón matado por hurón
18	2021	abandonado desde principio	nido fallado, última foto 29.1	voló
19	2021	hurón devora pichón 20.4	voló	voló
20	2022	hurón devora pichón 20.3	pichón visto visualmente, por fallo de cámara no se sabe resultado definitivo	no documentado
21	2022	poca visitas aves, 17.10.23 dos veces pero no entra nido, 11.1.23 no entra nido	nido fallado, última foto 6.3	no documentado
22	2022	pichón muerto nido abril 23	nido fallado, razón no muy clara	no documentado
23	2022	nido encontrado activo, pero no indicador pichón	nido fallado, no fotos	no documentado
24	2022	pichón voló	nido fallado, pichón comido	no documentado
25	2023	nido encontrado activo, pero no indicador pichón		
26	2023	nido encontrado con restos pichón		
27	2023	nido encontrado activo, pero no indicador pichón		
28	2023	casaron fuera nido, no indicador pichón		
29	2023	pichón voló		
30	2023	nido encontrado activo, pero no indicador pichón		
31	2023	nido encontrado activo, pero perdido luego, Nueva busqueda necesaria		