Describing habitat and finding colour rings of Black-tailed Godwits (*Limosa limosa*) in

Guinea-Bissau, from 8-19 December 2018

Expedition report, University of Groningen & Global Flyway Network, The Netherlands

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Introduction

The Black-tailed Godwit (*Limosa limosa*; BTG) is a meadow bird (Verstrael 1987; Thijse 1904). The current Dutch population is estimated at fewer than 40.000 breeding pairs (Kentie et al. 2016) and represents an important part of the total continental BTG population *Limosa limosa limosa*. However, the number of breeding pairs have declined rapidly over the last decades, as compared to the 120.000 pairs in the 1960s (Mulder 1972). This is mainly caused by a change in agricultural land use. Intensification and rationalisation have led to degradation of the breeding habitat, resulting in low reproduction. The population in the Netherlands cannot produce enough chicks for a stable population. (Vickery et al. 2001; Newton 2004; Tscharnke et al. 2005; Teunissen & Soldaat 2006; Roodbergen et al. 2012). After the breeding season godwits migrate to southern Europe (Spain and Portugal) and West-Africa where they stay for wintering (Márquez-Ferrando et al. 2009; Hooijmeijer et al. 2013).

Demographic research Southwest Friesland

To measure the changes in population numbers and the causes, in 2004 the University of Groningen started a long-term research in the south-western part of Friesland, The Netherlands. In 2007 the research area has expanded up to 8400 hectares and since 2012 it increased again with another 1600 hectares (Groen et al. 2012). A colour-marked population of godwits was set up to make them individually recognizable. The knowledge that has been collected with this research has been implemented by policy makers and nature conservation organisations.

Migration and wintering sites Black-tailed Godwit

In 1983-1984 the wintering sites of godwits were explored for the first time. At that moment most godwits were wintering in rice areas along the West-African coast in Senegal, Gambia, Guinea-Bissau and further. Big numbers of godwits also occurred in the inner Niger delta in Mali (Altenburg & van der Kamp 1985), but they probably belonged to the eastern European population. Recently, the wintering behaviour has partly changed with an increasing number of godwits deciding to winter in southern Spain at National Park Doñana. In the 1980s during the first counts, only 4% of the NW-European population used this area as a wintering site but recent estimations suggest a big change with up to 23% of the population wintering in Spain. The most important reason for this is probably the creation of new artificial fishponds and rice fields. It is remarkable that this increase is not driven by climatic changes in the Sahel zone of West-Africa (Márquez-Ferrando et al. 2013). For godwits, staying Iberia can be advantageous because they can skip a 3000 kilometre (v.v.) travel over the Sahara, a potentially dangerous migration route and save their fat stores for the next breeding season.



Figure 1. Two migration routes of satellite tagged birds in 2009. The left map shows the route of an Iberian wintering bird. On the right an African wintering bird. Iberian wintering birds save a 6000 km flight and don't need to cross the Sahara twice (Hooijmeijer et al., 2013; maps Altenburg &Wymenga, Feanwâlden).

Conservation

The change in wintering grounds is remarkable and an important reason why we want to do (demographic) research in West-Africa. We know now that juveniles are more likely to make these kind of shifts than adults (Verhoeven et al., 2017), but not how they develop their individual migration strategy and perhaps thereby change the migration pattern of the species. These changes can also have consequences for the survival rate of both adults and juveniles. Moreover, they can lead to differences in reproductive success, for example due to differences in body condition upon arrival on the breeding grounds. Both are demographic parameters that can rapidly influence population dynamics. A better understanding of these processes is therefore also important from a conservation point of view; the Black-tailed Godwit qualifies since 2006 as "Near Threatened" on the IUCN Red List.

Until now, West-Africa is the only area along the migratory flyway from where we don't receive many observations of colour-marked individuals. Only small numbers of colour-ringed birds have been reported, mainly by birdwatchers and, recently, by local scientists. Unfortunately the numbers of sightings are too small to make demographic comparisons between wintering sites.

Expeditions West-Africa and Iberia

In November 2014 the University of Groningen, in cooperation with Global Flyway Network and financially supported by Birdlife Netherlands, embarked upon their first expedition to the wintering grounds in West-Africa and since then we visited the area 2-3 times per year. We aim to set up a demographic research project in this area in close cooperation with local scientists, volunteers and conservation organisations. The most important goal of the first missions was to get a good overview of the wintering grounds, resighting conditions, local facilities and knowledge and to make a start with setting up a dataset of individually recognizable godwits that winter in West-Africa. Secondly we made a pilot study of habitat choice and prey choice. At this moment comparable research is done in NP Doñana (Spain), Extremadura (Spain) and the Tejo/Sado estuaries near Lisbon (Portugal). The last two are used as stop-over sites in February. Therefore it is mandatory to continue our research at all these locations to find links between wintering sites, stop-over sites and breeding sites. Research questions we want to get into in the future with our work in West-Africa, Spain, Portugal and the Netherlands are:

- What is the overall difference in adult mortality between birds wintering in West-Africa and Iberia? And where along the flyway do these differences occur?
- Can birds change their wintering strategy during their life? And is this age-dependent?
- Does reproductive success determine where birds winter?
- Has the wintering strategy consequences for their migration and breeding phenology? And are there consequences for their reproductive success?

Habitat study

Anthropogenic alteration of natural wetlands is having a major impact worldwide with consequences (both negative and positive) for migratory species such as continental black-tailed godwits. The majority of continental black-tailed godwits breed in grassland meadows situated in north-west and Eastern Europe (March – July) after which they migrate southwards for the non-breeding period (mid July – February), finding forage resources within wetlands and agricultural rice fields. On their migratory route black-tailed godwits pass through France and either stage or spend the non-breeding period in southern Spain and Portugal. Many will make the Saharan crossing to overwintering sites in West Africa, namely; the Senegal Delta and coastal region of Senegal, The Gambia, Guinea-Bissau, Guinea, Sierra Leone and central Mali.

Using remote sensing products (Modis EVI 16 day time series) and 5 years of good quality locations of black-tailed godwits (equipped with PTT satellite tags) we generated a spatially and temporally explicit habitat utilization model using Bayesian distribution analysis. We found that during the non-

breeding period black-tailed godwits show a preference for stable habitats within a relatively low productivity range (EVI value 0.1-0.2), which are associated with open wetlands, low vegetation cover and shallow surface water (Howison et al. *in prep*). However, remote sensing data is difficult to interpret without accurate ground-truthing information. Additionally, godwits spend much of their time foraging either on the mudflats of saline mangrove wetlands or in wet rice fields, however little is known of the nature of the prey items at different times of the year. In this study we aimed to conduct a survey categorizing and describing habitats, measuring environmental variables such as water salinity and soil penetration pressure, feeding efficiency of the godwits and carefully searching the substrate to establish the identity of godwit prey items.

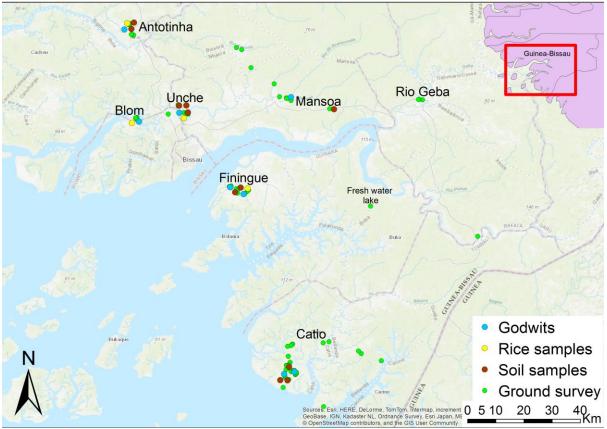
From 8 – 18 December 2018 we visited areas in Guinea-Bissau previously identified as godwit areas as well as new areas that showed up as hotspots from the accumulated transmitter locations – and were accessible either by car or by boat. We recorded resightings of individual birds, counted godwit numbers and described godwit habitat. In this report we present a daily overview of our findings with photos, locations we visited, numbers present and the first conclusions and recommendations.

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Daily reports



Distribution of the locations visited during the expedition 8 - 18 December 2018

8 December 2018

We travelled from the Netherlands through Lisbon to Guinea-Bissau. The NL flight was delayed by 2 hours so by the time we arrived in Lisbon we were almost too late for the connection. The Portuguese airlines had arranged a quick transfer (less than 10 minutes!) for us and we were lucky to make the connection after all. Hamilton Monteiro, technician of the Bureau de Planification Côtière, was at the airport to greet us and take us to the hotel, Pensao Creola. He will be our guide these weeks and we are looking forward to work with him again.

9 December 2018

A warm start of around 25 degrees and 10-20% cloud cover. We first went around to the office of Joaozinho Sa, coordinator of Wetlands International in Guinea Bissau and director of the Bureau de Planification Côtière, and explained the purpose of our trip with the new emphasis on habitat use. He talked us through all the arrangements that had been made, handed over the mission permit and introduced us to the IBAP representative who had provided a 4x4 vehicle. Fortunately Hamilton had already done all the shopping for food and camping equipment. So after changing our €3500 expedition budget for FCFA we were ready to go. We then started the long journey to Catió. Evident along the whole route was the absence of big tropical trees, made even more obvious by the odd endemic tall tree against the skyline dispersed between many Cashew nut trees and patches of mango trees. We arrived at about 16h30 and decided to explore some rice fields near Cufar. The rice area was still quite wet with many wader and waterfowl species present. However, no godwits; we stopped and asked some local people if they had seen any godwits but they said no. We still took some habitat points adding to the growing habitat ground truthing effort. We spent the night in Catío.



Rice fields near Cufar with many waders and waterfowl such as herons and jacana's

The next morning we did some final shopping before we started the big mangrove adventure in the area south of Catío. The boat for the trip had been provided by the PN de Cantanhez including 2 boatmen that knew the area well. We had to wait for the high tide to depart because there was a difficult passage through the mangroves that was only possible during high tide. It was a close call but we made it through the passage just in time. We arrived in the vast Cachil rice fields north of Catabao. We deliberately chose this area because between 2013 and 2017 many of the godwits with satellite transmitters had been in this area in November and December. We arrived still at high tide at the river branch that led to the rice fields around 12:00. But we soon realised that we would have to wait till midnight before we could leave this place again. This meant that we had the whole afternoon to explore the rice fields. About 40% of the area had not been cultivated, those fields were generally muddy or totally dry, covered in tall grass (looks like thatch grass) or Juncus type reeds. The operational rice fields were pretty well maintained and >95% had crops on them that still had to be harvested. There were not so many people in the fields harvesting but that could also be because the harvesting season was only just starting up here. The density of the plants was not that high that it would be impossible for godwits to forage in between. Most of the fields were still wet and quality of the plants seemed to be good. We walked for 5 hours through the fields but only found 10 individuals. These were foraging and resting in a rice field that had been used last year with a lot of open space between the plants. We took some soil samples but apart from 2 rice kernels and 1 Culex-type mosquito larva we could not find anything else they might have been foraging on. After the fieldwork we ate fresh fish from the mangroves and waited till 23:00 before we could leave. After going around in circles on the river, a helpful guy on shore came on board to help us locate the estuary branch we needed to reach the village; we spent the night camping on the beach of Catabao Segundo.



Negotiating the narrow (shallow) passage through the mangroves



Around 10 godwits seen foraging in a rice field cultivated more than one season ago in the Cachil rice fields north of Catabao, soil samples were inconclusive with one *Culex*-type mosquito larva and a few rice kernels

A cloud free day reaching 35°C; we could leave once the tide had come in again around 10h00. We travelled along the estuary to the Catabao rice fields where satellite tagged godwits had been seen in December between 2013 – 2017. It turned out to be a completely abandoned rice complex. There was a breakthrough in the big dike which allowed free tidal fluctuations. The internal dikes and canals were almost completely lacking. Fiddler crabs and tidal waters have restored this area to an almost bare mudflat system, with about 20% vegetation cover of *Sarcocornia sp*. We didn't see any godwits unfortunately but took a soil and salinity (43 mS) sample. Next we went to the rice complex of Com, there was not so much time as the boat had to go back to the home base at Jemberem and we were limited by the tide maximum at midday. Jos and Hamilton managed to sight 35 godwits, including 1 code flagged bird. The birds were foraging in an abandoned rice field in small pools between the vegetation. These pools were full of mosquito larvae and that might very well have been where they were foraging on. The birds were not really probing but merely pecking, suggesting a superficial prey item. In the soil we could not find any potential food items.

Ruth took a soil and salinity sample in a mature rice field, to complete a sample set for the southern part of the Guinea-Bissau expedition. The water salinity was still quite high (18 mS) even though the rice complex was separated from the estuary with a huge clay dike. The northern and western part of the rice field complex was almost completely abandoned. The fields were mainly wet and about 40% of the harvest had been cut; most of the fields seemed to have a pretty good crop yield. We finished our survey in the fields below Catío at noon and travelled back with the boat to the port of the Cantanhez NP just north of Jemberem.



Catabao rice fields were completely abandoned and the fiddler crabs had almost completely restored the area to a natural tidal mudflat



Abandoned field in the rice complex of Com, pools were full of mosquito larvae

Travelled from Jemberem to Tite; the road was in a bad state and we made slow progress through the beautiful remnants of what was once upper Guinea forest. We had a flat tire and arrived late at the catholic mission post of Tite at 21h00. The priest and his assistant were surprised, but very friendly about our surprise arrival and allowed us to stay in their compound for two nights.

13 December 2018

Another warm and cloud free day, almost without wind, reaching 40°C at midday. We headed out to the rice fields north of Bissassema de Cima, which were mostly abandoned (around 80%). A few active rice fields remain on borders of a natural wetland area and about half of those were harvested; we found a few rice fields where the dikes were restored but many of the rice field complexes are slowly starting to revert to more natural floodplains. Only old dike structures and the odd active rice field remaining in the landscape, which indicate that they were once large rice complexes. The international investment signage indicates that investment in rice development happened around 2009. Many of the abandoned paddies were completely dry; some were a bit muddy and drying out. We targeted for this area because one of the transmitter birds, Madrigalejo, had been located in this area. We found godwits in a wet zone that ran through the entire area, but only 8 individuals. In the afternoon we searched for the rice fields east of the village but almost the entire area was covered with 1,5 m tall thatch grasses (Hyperhenia sp.). According to satellite locations from previous years there should have been some wetlands in this area next to the small hamlet of Flora but they had dried out and we became a bit desperate that we would end this day again without any resightings. But on the way back we ran accidentally into a group of about 50 birds next to the main road to Tite near Finingue. These birds were foraging in what seemed to be a failed rice field; conditions were wet but there was only a small zone where the plants had reached maturity. Godwits were sighted at last feeding on rice grains, picking them directly from the ripe seed heads and not so much from the ground. Foraging efficiency ranged from 5-15 rice grains per minute; the low number was caused by godwits becoming vigilant in response to disturbance by people passing by on the road. In between we saw them drink frequently. The fat score of the birds

was around 3. We found the first ringed birds of this trip.....and one of those was a transmitter bird called Madrigalejo. The bird seemed to be doing fine in its 3^{rd} winter since it was tagged. Salinity in the river was relatively low (3.7 mS) compared to the estuaries (37 – 44 mS) earlier this week. The rice fields separated from the river by dikes were much higher in salinity compared to the river, probably due to evaporation (ranging from 6 – 11 mS). Soil samples were taken in a semi-natural wetland and in an active rice field, and rice grains were collected.

We spent the night again at the mission post of Tite, where padre Luis brought us the rings and legs of what was probably an Osprey that was shot by a local hunter back in 2009. Reason: it ate 12 hens and roosters $\textcircled{\otimes}$



Ladies fishing for crabs in the saline estuary next to the rice fields, and manually threshing the husks from the rice kernels



About 50 birds next to the main road to Tite near Finingue, including the satellite-tagged Madrigalejo. Here the godwits were actively foraging on rice kernels from the standing crop by jumping up to reach the rice, taking regular pauses to drink water

The weather has changed: instead of sunny and blue skies, we had overcast skies and a very humid atmosphere with temperatures around 35°C.

After saying goodbye to the priest at Tite, we first went back to the spot where we found the godwits yesterday evening near Finingue. And they were there again in exactly the same rice field: 28 birds including Madrigalejo. There was a new colour ringed bird as well. We took some intake rate samples again (17 rice kernels when eating rice from the plants and 4 prey items per minute when eating from the mud). By that time it was already 10:30 and we had to leave for the long journey to Mansoa. Halfway we made a stop at a fresh water lake near Cufada but found no godwits there. Just after Bombadinca we checked rice fields along the Rio Geba near Finete. About 20% had been harvested but in general they were dry and not very suitable for godwits, although we know that sat-tagged godwits have been in this area in 2013; no birds were seen this time. We continued towards Mansoa and stopped to check the rice fields along the river Mansoa just S of the city near the bridge but again we found no birds. On the north side of the road the fields were extremely wet (fresh water 0.5 mS), on the south side they were a bit salty (3.7mS).

Driving along the road crisscrossing the estuarine rivers showed a variety of rice complexes. Some were almost completely abandoned and had reverted to tall grasslands, others were well maintained with hardly any abandoned fields, and some were in between with the majority of the paddies abandoned. But where rice was cultivated the paddies were less well maintained with broken dikes, partly failed crops and bare mud.



A fresh water lake near Cufada

15 December 2018

A cloud free day reaching ~32°C. We headed back to the fields close to Mansoa from yesterday evening to take soil and penetration pressure samples from both sides of the road since one side was very fresh and the other side a little salty – but essentially fed from the same estuarine river. Again we saw no godwits here. We checked another area east of and close to Mansoa called Cussana. It is a big floodplain of the Rio de Olom. Decades ago people tried to enlarge the rice cultivated area, they cut the mangroves but did not maintain the main drainage channels very well. The tidal water channels became obstructed with sediments and turned the area into a freshwater floodplain with open shallow water, grasses and reeds (T*ypha*). On the edges, near the villages, there is still some rice cultivation but only a small percentage of the flood plain is used for that. We saw no godwits here but a young guy claimed he had seen godwits at the opposite side of the floodplain near Cusentchi. He showed us the way but we only saw 3 godwits flying over and searching for a suitable place to land. According to the villagers there had been godwits in the area in November but not now anymore. The area had apparently become too dry now. In November 2014 we found hundreds of godwits in this area as well, when the circumstances were indeed much wetter. Water conditions were very fresh 0.14 - 0.65 mS and the black cotton soils were still quite wet which makes this area very productive. The village allows their ~35 cattle to graze and drink.



Big floodplain of the Rio de Olom

We returned to Mansoa to do some shopping and afterwards moved on to our next destination: Pache Iala. Before we arrived there we checked some smaller rice fields before and behind Bissora without seeing any godwits. In the afternoon we checked the rice fields of Pache Iala. Every time we visited them previously, god numbers of godwits were almost guaranteed. But this time we did not see a single individual! The maintenance of the rice fields did not look that different from previous years: the dikes were still in good condition, but the fields were much drier and even more important: about half of them had not been used this year! We searched a large part of the area and followed some harriers to see if they flushed godwits but without luck. According to our local guide Julio, lack of labour force was the main reason why so many fields were not used this year. We noticed that fields that were cultivated 1 or 2 seasons ago still had standing rice stubble. Even harvested rice was stacked on the paddy wall, but had not been carried back to the village. We could see that these stacks were older than the current season's rice because they were dark brown and completely dried out, compared to this years rice harvest which was yellow in colour with large rice grains. We suspected they had received some kind of food aid, which completely removed the need to finish the hard work of the harvest – we asked the opinion of the guide but he was not sure what we were asking.

Meeting with village chief

We returned to the village, after dinner we discussed the situation of the abandoned rice fields with the village chief. He said that the young people are going to school nowadays in Bissau; after they finish school they try to find work in the city. They generally don't return home to become rice farmers. However, an additional change to the culture is that the jobs that the young people manage to find in the city, don't earn enough money to send back to their aging parents and younger siblings back at the village.

Additionally, FAO provided money and food aid, in lieu of working the land, in the recent years for the people of these villages to repair the outer dike. We observed that the outer dike was indeed not repaired, but that much of the rice complex was left standing and uncultivated. What we suspect happened is that the village accepted the money and food aid, but did not have sufficient labour force to repair the outer dike.

The poor condition of the outer dike has allowed tidal estuarine water to enter the rice complex which will further reduce the capacity to cultivate rice, indeed the salinity measures of the paddies with standing water was quite high (ranging from 22.3 mS to 11.4 mS). Will Pache Iala soon become the next rice field complex that slowly turns into a flood plain as we have seen at so many places during this trip? We spent the night at the house of a Balanta family in Pache Iala.



Many abandoned rice fieds in Pache Iala

16 December 2018

Sunny with temperatures above 30°C but with a nice breeze this time. We left Pache Iala early in the morning and travelled to the nearby village of Unche. These rice fields were still a good example of well-maintained rice fields, probably the best we have ever encountered in Guinea Bissau. The outer dikes are strong and there are no weak spots in the internal infrastructure. The water levels are good, almost none of the fields have been abandoned and on the west side there is even some reclamation of fields that were about to be taken over by the mangroves. Harvest was almost completed with less than 5% standing crop; women were bringing the rice from the dikes in the fields to the village.

We found about 80 godwits in small groups. That is much less than expected because in a previous expedition in 2015 at this time of the year, we saw 1250 birds at this site. According to the local farmers, they were much more numerous in November, when they started the rice harvest. Most of them were foraging in the fields and on the dikes where they picked up the spilled grains. Intake rates ran up to 27 grains/ minute but they spent a lot of time checking the surroundings. Children were sent out to prevent them from taking the rice from the bundles that were waiting for transport on the dikes. At noon we found some 40 individuals in the wetland in the east of the rice fields. The birds were mainly preening and resting. One of the birds we saw, had also been observed by us in the Casamance this year and other birds were seen in this region during previous expeditions. Most birds were in excellent condition for migration with scores around 4.

The design of the outer dike is different in this rice complex because they have built a system with 2 dikes. A large outer dike and an inner buffer dike with a channel of water in between. Salinity levels were pretty high ranging from 49 mS within the barrier dike decreasing to 18 mS within the inundated rice paddies. We took soil samples both in a functioning rice field and in an abandoned uncultivated field.

Later in the afternoon we returned to find more ringed birds. Half of the birds had left and we only found 1 new colour ring, adding up to a day record number for this expedition of 6.

Meeting with village chief

In the evening we discussed with the chief why this rice complex is doing so much better than the others. He explained that the soil is darker here than I Pache lala and that the rice paddies are deeper, which might mean that the water stays in the paddies for longer. Our observation – yes there is a double dike system surrounding the rice complex, which helps with good water management. The paddy wall height was relatively comparable with what we encountered yesterday. We also observed that the dikes were very well maintained in Unche. However, other than with soil nutrient analysis, we didn't see any visible difference in the colour or texture of the soil.

They don't have trouble with the younger generation leaving the homestead to seek work in Bissau, only some families don't have a son who can help with properly maintaining their fields. Some fields are in slightly worse state than others. We did notice many more people working in the rice complex here today than in the Pache lala yesterday. Many women were carrying the harvested rice back to the village in multiple trips.

The chief also said there is no food aid program being received; this may be a more plausible explanation as to why the rice complex is fully functioning. The people here have to work their fields well to yield sufficient rice to feed themselves.



Godwits foraging on rice grains from the stacked bundles laid out on the dikes to dry



Double dike water management in Unche

Another >30°C warm day with clear skies and a gentle breeze.

We woke up in Unche after a cold night with a lot of inter-village dog communication (...). We had to replace a flat tyre but after that we were ready to go for the Antotinha floodplains and rice fields. We made a stop in Bula to repair the tyre, have breakfast and buy some of the famous Bula Mission Post honey. We arrived at 10:00 at the Ponte de Sao Vicente. After this bridge the floodplains and mangroves start until the village of Antotinha and further downstream. This is one of the core areas for godwits in Guinea Bissau but the options to see them are limited. We checked the mudflats next to the road but only found 25 birds; the water here was hypersaline 52 mS. We continued towards the village and found 115 birds in harvested rice fields (water levels ranged from 8 mS near the village to 30 mS near the estuary. They were foraging on bundles of harvested rice that were lying in the water. According to the villagers, it is better to put the bundles in the water because that will make the husks of the rice grains come off more easily. Also only about half the rice paddies were actively used for rice. On the west side the people said it was too salty and there was not enough fresh water to sustain rice cultivation. On the east side there was a natural upwelling of ground water which created a natural S shaped creek that flowed through the centre of the fields and probably helped to keep the salt levels lower.

The birds were very skittish and after disturbance they flew back to the daytime roost where it was possible to see the legs. We found 1 ringed bird from our scheme, an unreadable codeflag and a German bird. Fat scores were around 4 (on a 1-5 scale).

We left the area to turn south and made a stop after the Ponte de Sao Vicente at the Cumano rice fields. They were in better condition than expected. About 30% was abandoned and of the remaining 70% about 70% had been harvested; we found no godwits here. We moved on to Blom where we camped.



Godwits found foraging on bundles of rice left lying in the water to reduce the effort to remove the husks. Alternatively they were roosting in an abandoned paddy in the western corner where fewer people go



View of the mudflats adjacent to the rice complex of Antotinha, where many satellite tagged locations are recorded

A hot clear day reaching \sim 35°C. We got up nice and early to take advantage of the few hours remaining.

It was, however a fantastic day for godwits!! At last we encountered a huge flock estimated 1750 individuals, even though we could not check more than 50% of the Blom rice fields. It was a real pity that this was our last day of which we only had the morning to read colour rings; nonetheless we scored 21 colour ring combinations (3 code flags!), 20 from our scheme and 1 from the German scheme. Two birds were seen in Senegal in November 2018, showing that even when the majority of the birds moves north, southward migration still occurs. The godwits were in great condition with an average fat score of 3.8 (n=50), fully fuelled for the return flights to Europe. It seems that the godwits arrive in the rice fields at first light to forage. When the villagers come to work in the fields, they move around a lot and most of them will look for a more quiet place to avoid contact with people. That is normally a group of failed or abandoned fields with some water.

The eastern rice fields of Blom were only about 30% with active rice cultivation of which most had been harvested. The rice crops were not very good with often large bare patches between the rice tussocks. The salinity in the standing water ranged from 11 mS in the poorly performing rice paddies to 47 mS in paddies without rice (just bare mud or a few tussocks of Juncus growing). Many paddies were overtaken with grass but towards the mangroves the fields seemed to be of better quality.

Godwits were found foraging on the piles of harvested rice that were stacked on the paddy walls, as well as plucking seeds from the standing crop, we took a sample of the rice grains. In one of the failed crops they were foraging by probing in the mud with an intake of up to 48 prey items per minute. We searched the mud for what they could be eating but found nothing!! They were probing into the base of dead lilies. We thoroughly checked and sieved out 3 of these dead lily bases but could not find any invertebrates. We searched both the top layers of mud as well as the surface mud – nothing! Though in the surface mud there were thousands of *Daphnia sp.* swimming around. We extracted one of the lily bases from the paddy and placed it in the hot sun and observed if anything emerged – still nothing, it remains a mystery what the godwits were feeding on in the mud here \circledast .



At last our first really big flock of godwits! Pity it was the last day and we only had limited time with them, nonetheless a great ring reading result!



Godwits foraging in the mud focussing at the base of old dead lilies and rice tussocks, we searched this mud thoroughly to find the prey items but were unsuccessful in finding what they could be eating?

Summary

It has been a fantastic expedition with regards to understanding more about the habitat that godwits use while they are in Guinea-Bissau. We travelled a full transect from the south to the north between Rio Cacine and Rio Cacheu visiting both historically monitored sites as well as exploring a few new possibilities indicated by dense visitation frequency by satellite tagged godwits. It was less good in terms of ring reading as we encountered only a few small flocks of godwits and 1 substantial group in Blom (1750) on the last morning. In total we recorded 33 sightings of 31 different individuals, all but 2 of our own scheme. Only sat-tagged bird Madrigalejo was seen on 2 occasions and another had moved from Unche to Blom. Some birds had been recorded on earlier expeditions in Africa but we also saw a fair amount of "new" birds that apparently cross the Sahara. It was remarkable to encounter 2 birds that were seen in Senegal in late November and still migrated south. Many people told us that we were too late and that there had been many godwits in November. Some explained the low number also by the drought; however, we still saw a lot of sites where godwits could have foraged. That, in combination with average fat scores of 3.8 (n=50; on a 1-5 scale), did not give us the impression that godwits were having a bad time in Guinea Bissau. Perhaps we had just bad luck not to encounter more or larger groups; the last day at Blom showed that you can run into them if you are at the right place at the right time but you can also easily miss them. Mid December is off course a tricky period because it is about the time that many birds have already started to migrate north. An earlier expedition to Guinea Bissau in 2009 was not very productive either, ring-reading wise.

Nonetheless, we learned a great deal about different rice cultivation strategies as well as godwit foraging ecology. Many of the areas we visited, which were converted tidal floodplains for rice agriculture, have now become abandoned. Generally a few active rice paddies remained which look a lot like subsistence farming as they were within close vicinity to the village. In the shops you will hardly find local rice but mainly imported Asian rice. The reasons for abandonment ranged from the usual; young people prefer to move to the city to find work and education rather than farm rice and don't earn enough in the city to help support their families in the rural villages, or that there was not enough fresh water to support rice agriculture this year.

We found out from talking with the chiefs of different villages that perhaps USDA food aid and international subsidies may have something to do with recently uncultivated fields. A small rural family which receives such a large food aid supplement and subsidy would probably not like to spend all their time working hard in the rice fields and maintaining the outer dikes but rather take advantage of the extra staple food and spend time doing other things like fishing in the estuary, as well as use the money to send their children to the city for work or education opportunities. It was interesting that in the village where the chief said they did not receive any food aid that the rice complex was very well maintained and there were enough people to help with the farming. In 2016 we visited comparable rice complexes in the Casamance, one observable difference with the rice complexes in Guinea-Bissau is the amount of water still in the fields. Casamance rice fields were bone dry and the floor of the paddies had baked hard as concrete which was apparently unattractive to godwits. In Guinea-Bissau on the other hand there were large tracts of dry areas, but in almost all areas there were open wet patches remaining which, as far as we could see, were suitable for godwits.

Indeed we found godwits foraging on rice in the rice complexes. The salinity of the rice complexes ranged from 3.7 to 47 mS, except for one large floodplain of the Rio de Olom near Cussana east of Mansoa which was very fresh water 0.14 - 0.65 mS. Therefore godwits can cope with quite saline conditions, since we observed them foraging on rice kernels then stopping to drink water; this is probably a necessary activity as the dry rice kernels need to become hydrated for digestion. Penetrability of the soil was really high in the flooded fields while on the dikes and dry fields were really low, which explains the absence of godwits probing along the dikes or in the dry rice fields, meaning that godwits don't forage for spilled rice in the fields under these conditions. They forage directly from the full seed heads in standing crops, from rice bundles that were stacked on the dikes drying out and ready for collection, on remaining seeds that were left behind when the bundles had

been collected or, and that was new to us, on bundles that were left in the water to make the husks come off more easily.

We can rule out that mature standing rice or harvested rice is absolutely essential for godwits to spend the northern summer and autumn in these areas. There were equally large areas that had been abandoned (ranging from 1 to many years ago) under a shallow layer of water that look more like a restored natural flood plain than the rice fields themselves. And godwits do make use of these areas as well and are not just restricted to the optimally managed rice fields. Therefore we assume there is still plenty of habitat for godwits in Guinea Bissau, simply because they seem to be so flexible in their diet. The diversity of prey items we have determined, increases after every field trip to West Africa. But it could be that the ample availability of mature rice during a long period from early November to late December helps them a lot to easily gain fat reserves for their long trip north.

This expedition was funded by Birdlife Netherlands, University of Groningen, the Spinoza premium (NWO) to TP and supported by Global Flyway Network.



Impressions along the way!

| Overview Black-tailed Godwit Resightings Observer: Jos Hooijmeijer | | | |
|---|--|--|--|
| Colourcode: 1L711B | Name Ringer:Egbert van der VeldeName 2nd Ringer: | | |
| Ringnr: 1L711B Ringing Date: 6-5-2018 Age (in days; 50 = juv.; 99 = ad.): 1 | Ringing site:Gaastmeer, De Lange HoekThe Netherlands52.95000 N 5.53333 E | | |

| Resightings | of this bird: |
|-------------|---------------|
| Date | Site |

Observer(s)

18-12-2018 Blom

11.99556 N -15.79361 W Guinea Bissau

Jos Hooijmeijer Hamilton Monteiro Ruth Howison

| Colourcod Ringnr: 1 | le: 1LJANB LJANB Ringing Date: 12-5-2014 | Name 2nd Ringer: | Egbert van der Vel Haije Valkema stmeer, De Lange H | |
|------------------------|---|------------------------|---|--|
| | s; 50 = juv.; 99 = ad.): 1 | The Netherlands | 52.95000 N 5.5 | |
| 8. () | | | | |
| Resightings | of this bird: | | | |
| Date | Site | | | Observer(s) |
| 7-7-2014 | Harich, Trophorne | 52.93889 N 5.57222 E | The Netherlands | Jos Hooijmeijer |
| 18-12-2018 | Blom | 11.99556 N -15.79361 W | | Jos Hooijmeijer Hamilton Monteiro Ruth Howison |

Colourcode: 1LMVUB

Name Ringer: Ysbrand Galama

Name 2nd Ringer:

 Ringnr:
 1LMVUB
 Ringing Date:
 9-5-2014

 Age (in days; 50 = juv.; 99 = ad.):
 1

Ringing site:It Heidenskip, Polder Aent LieuwesThe Netherlands52.93333 N 5.48361 E

Resightings of this bird:

| Resignings | | |
|------------|------|-------------|
| Date | Site | Observer(s) |

| 24-6-2014 | Stavoren, Zuidermeerpolder | 52.87611 N 5.38361 E | The Netherlands | Rene Faber (RUG) |
|------------|---------------------------------------|------------------------|-----------------|--|
| 30-6-2014 | Warns, Grote Warnser- en Zuiderpolder | 52.86528 N 5.43194 E | The Netherlands | Rene Faber (RUG) |
| 4-7-2014 | Koudum, Haanmeer | 52.92333 N 5.43500 E | The Netherlands | Mo Verhoeven |
| 24-2-2016 | Samorra Correia, Belmonte ricefields | 38.91667 N -8.83333 W | Portugal | Egbert van der Velde |
| 24-2-2016 | Samorra Correia, Belmonte ricefields | 38.91667 N -8.83333 W | Portugal | Haije Valkema |
| 11-4-2016 | It Heidenskip, Feandyk | 52.94250 N 5.49972 E | The Netherlands | Ysbrand Galama |
| 26-4-2016 | It Heidenskip, Feandyk | 52.94250 N 5.49972 E | The Netherlands | Ysbrand Galama |
| 15-3-2017 | It Heidenskip, Feandyk | 52.94250 N 5.49972 E | The Netherlands | Ysbrand Galama |
| 5-4-2018 | It Heidenskip, Polder Aent Lieuwes | 52.93333 N 5.48361 E | The Netherlands | Wiebe Kaspersma |
| 8-6-2018 | It Heidenskip, Polder Aent Lieuwes | 52.93333 N 5.48361 E | The Netherlands | Ysbrand Galama Riemer Miedema |
| 18-12-2018 | Blom | 11.99556 N -15.79361 W | Guinea Bissau | Jos Hooijmeijer Hamilton Monteiro Ruth Howison |

| Colourcod | e: B1YLYR | Name Ringer: Name 2nd Ringer: | Gjerryt Hoekstra | |
|----------------------------|---|----------------------------------|---------------------------------|-----------------------------------|
| Ringnr: 25 Age (in days | Ringing Date: 18-5-2015 ; 50 = juv.; 99 = ad.): 99 | _ | kum, Workumerbi 52.99611 N 5 | |
| Resightings | of this bird: | | | |
| Date | Site | | | Observer(s) |
| | | | | |
| 25-1-2016 | Isla Mayor, Veta la Palma | 36.97083 N -6.23500 W | Spain | Jos Hooijmeijer |
| 25-1-2016 | Isla Mayor, Veta la Palma | 36.97083 N -6.23500 W | Spain | Haije Valkema |
| | | | | |
| 28-1-2016 | Isla Mayor, Veta la Palma | 36.97083 N -6.23500 W | Spain | Jos Hooijmeijer |
| 10-3-2016 | Moëze, Réserve Naturel de Moëze-Oléron | 45.88583 N -1.08167 W | France | Pierre Rousseau |
| | | | | |
| 31-3-2016 | Workum, Workumerbinnenwaard-Noord | 52.99611 N 5.41139 E | The Netherlands | Gjerryt Hoekstra |
| 11-6-2016 | Exmorra, Polder Bruindeer | 53.05083 N 5.45611 E | The Netherlands | Guillaume Senterre |
| | | | | |
| 5-2-2017 | Isla Mayor, Veta la Palma | 36.97083 N -6.23500 W | Spain | Rocío Marquez Ferrando |
| 10-2-2017 | Isla Mayor, Veta la Palma | 36.97083 N -6.23500 W | Spain | Alberto Pastoriza |
| | | | | |
| 10-2-2017 | Isla Mayor, Veta la Palma | 36.97083 N -6.23500 W | Spain | Alberto Pastoriza |
| 12-4-2017 | Workum, Workumerbinnenwaard-Noord | 52.99611 N 5.41139 E | The Netherlands | Alice McBride |
| | | | | Jelle Loonstra |
| 5-6-2017 | Workum, Workumerbinnenwaard-Noord | 52.99611 N 5.41139 E | The Netherlands | Alice McBride Gjerryt Hoekstra |
| 17-6-2017 | Workum, Workumerbinnenwaard-Noord | 52.99611 N 5.41139 E | The Netherlands | Alice McBride |
| | | | | Mo Verhoeven |
| 26-6-2017 | Workum, Workumerbinnenwaard-Noord | 52.99611 N 5.41139 E | The Netherlands | Mo Verhoeven Alice McBride |

| 26-6-2017 | Workum, Workumerbinnenwaard-Noord | 52.99611 N 5.41139 E | The Netherlands | Mo Verhoeven |
|------------|-----------------------------------|------------------------|-----------------|--|
| 12-3-2018 | Workum, Workumerbinnenwaard-Noord | 52.99611 N 5.41139 E | The Netherlands | Alice McBride |
| 17-3-2018 | Gaast, Gaastwad | 53.01700 N 5.40600 E | The Netherlands | Jan Kramer Eelco Brandenburg |
| 22-3-2018 | Gaast, Jouke Sjoerdspolder | 53.00361 N 5.41972 E | The Netherlands | Age Hulder |
| 25-5-2018 | Workum, Workumerbinnenwaard-Noord | 52.99611 N 5.41139 E | The Netherlands | Alice McBride |
| 25-6-2018 | Workum, Workumerbinnenwaard-Zuid | 52.97917 N 5.41917 E | The Netherlands | Alice McBride Mo Verhoeven |
| 26-6-2018 | Workum, Workumermeer | 52.99278 N 5.46389 E | The Netherlands | Ysbrand Galama |
| 29-11-2018 | Mbissel | 14.143 N -16.745 W | Senegal | Jan Kramer Rennie Kramer |
| 29-11-2018 | Mbissel | 14.143 N -16.745 W | Senegal | Idrissa Ndiaye Jan Kramer Rennie Kramer |
| 16-12-2018 | Unche | 12.01028 N -15.61444 W | Guinea Bissau | Idrissa Ndiaye Jos Hooijmeijer Hamilton Monteiro |
| 18-12-2018 | Blom | 11.99556 N -15.79361 W | Guinea Bissau | Ruth Howison Jos Hooijmeijer Hamilton Monteiro Ruth Howison |

| Colourcode: B2RYYL Ringnr: 2511799 Ringing Date: 4-6-2018 Age (in days; 50 = juv.; 99 = ad.): 24 | Name Ringer:Egbert van der VeldeName 2nd Ringer:Mark WalingaRinging site:Oudega, De RigeThe Netherlands52.99556 N 5.56861 E |
|---|---|
| Resightings of this bird:DateSite | Observer(s) |

| 18-6-2018 | Pikesyl, Hisse- en Pikemar | 53.00111 N 5.57222 E | The Netherlands | Siebe (RUG) Bonthuis |
|------------|-------------------------------|----------------------|-----------------|--|
| 18-6-2018 | Pikesyl, Hisse- en Pikemar | 53.00111 N 5.57222 E | The Netherlands | Egbert van der Velde |
| 1-7-2018 | Slootdorp | 52.84 N 4.97 E | The Netherlands | Wim Tijsen |
| 14-12-2018 | Finingue, Finingue ricefields | 11.753 N -15.432 W | Guinea Bissau | Jos Hooijmeijer Ruth Howison Hamilton Monteiro |

| Colouroodor | B3LYRB | Name Ringer: |
|--------------|---------------|--------------|
| Colour code: | DJLIND | Name 2nd Rin |

Ringnr: 2505439 **Ringing Date:** 15-5-2016 **Age (in days; 50 = juv.; 99 = ad.):** 99

.... Haije Valkema nger: Mark Walinga Ringing site: Oudega, De Rige The Netherlands

52.99556 N 5.56861 E

| Resightings | of this bird: | |
|-------------|---------------|-------------|
| Date | Site | Observer(s) |

| 10-6-2016 | Oudega, De Rige | 52.99556 N 5.56861 E | The Netherlands | Egbert van der Velde |
|-----------|--|-------------------------|-----------------|----------------------|
| 17-6-2016 | Oudega, De Rige | 52.99556 N 5.56861 E | The Netherlands | Haije Valkema |
| 22-6-2016 | Idzegea, Bratte Polder | 52.97528 N 5.55056 E | The Netherlands | Haije Valkema |
| 23-6-2016 | Gaastmeer, De Lange Hoek | 52.95000 N 5.53333 E | The Netherlands | Egbert van der Velde |
| 30-1-2017 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Ysbrand Galama |
| 6-2-2017 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Maarten Hotting |
| 10-2-2017 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Maarten Hotting |
| 16-2-2017 | Porto Alto, Giganta ricefields, Cardal | 38.921737 N -8.977164 W | Portugal | Bob Loos |
| 10-3-2017 | Pikesyl, Hisse- en Pikemar | 53.00111 N 5.57222 E | The Netherlands | Egbert van der Velde |
| 17-3-2017 | Koudum, Polder Grote Wester Gersloot- West | 52.90056 N 5.43194 E | The Netherlands | Wiebe Kaspersma |
| 2-6-2017 | Oudega, De Rige | 52.99556 N 5.56861 E | The Netherlands | Egbert van der Velde |
| 13-2-2018 | Carregado, ricefields | 39.029416 N -8.941725 W | Portugal | Haije Valkema |
| 13-2-2018 | Carregado, ricefields | 39.029416 N -8.941725 W | Portugal | Egbert van der Velde |

| 18-2-2018 | Carregado, ricefields | 39.029416 N -8.941725 W | Portugal | Haije Valkema |
|------------|----------------------------|-------------------------|-----------------|--|
| 13-3-2018 | Pikesyl, Hisse- en Pikemar | 53.00111 N 5.57222 E | The Netherlands | Egbert van der Velde |
| 14-3-2018 | Pikesyl, Hisse- en Pikemar | 53.00111 N 5.57222 E | The Netherlands | Egbert van der Velde |
| 15-3-2018 | Koudum, Haanmeer | 52.92333 N 5.43500 E | The Netherlands | Mo Verhoeven |
| 17-4-2018 | Pikesyl, Hisse- en Pikemar | 53.00111 N 5.57222 E | The Netherlands | Anneke Zeinstra |
| 12-6-2018 | Pikesyl, Hisse- en Pikemar | 53.00111 N 5.57222 E | The Netherlands | Siebe (RUG) Bonthuis |
| 18-12-2018 | Blom | 11.99556 N -15.79361 W | Guinea Bissau | Jos Hooijmeijer Hamilton Monteiro Ruth Howison |

Colourcode: **B3RLRY**

Name Ringer:Ysbrand GalamaName 2nd Ringer:Gjerryt HoekstraRinging site:It Heidenskip, FeandykThe Netherlands52.94250 N 5.49972 E

 Ringnr:
 2504798
 Ringing Date:
 27-5-2016

 Age (in days; 50 = juv.; 99 = ad.):
 99

J

| Resightings | of this bird: | |
|-------------|---------------|-------------|
| Date | Site | Observer(s) |

| 11-6-2016 | Workum, Workumer Nieuwland | 52.95500 N 5.43194 E | The Netherlands | Ysbrand Galama |
|------------|--|------------------------|-----------------|--|
| 11-6-2016 | Workum, Workumer Nieuwland | 52.95500 N 5.43194 E | The Netherlands | Michael Meijer Iris Bontekoe |
| 19-1-2017 | Isla Mayor, Veta la Palma | 36.97083 N -6.23500 W | Spain | Rocío Marquez Ferrando |
| 30-1-2017 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Gjerryt Hoekstra |
| 21-3-2017 | Koudum, Haanmeer | 52.92333 N 5.43500 E | The Netherlands | Mo Verhoeven |
| 22-3-2017 | Koudum, Haanmeer | 52.92333 N 5.43500 E | The Netherlands | Anneke Zeinstra |
| 10-6-2017 | Baard, Wammerterpolder | 53.16139 N 5.54250 E | The Netherlands | Ysbrand Galama |
| 27-3-2018 | It Heidenskip, Polder Aent Lieuwes | 52.93333 N 5.48361 E | The Netherlands | Wiebe Kaspersma |
| 24-4-2018 | It Heidenskip, Feandyk | 52.94250 N 5.49972 E | The Netherlands | Riemer Miedema |
| 18-12-2018 | Blom | 11.99556 N -15.79361 W | Guinea Bissau | Jos Hooijmeijer Hamilton Monteiro Ruth Howison |

Colourcode: **B3RYYL**

Name Ringer:Rinkje van der ZeeName 2nd Ringer:Hassen MohamedRinging site:Gaast, Polder Gaast-FerwoudeThe Netherlands53.01806 N 5.43194 E

 Ringnr:
 1433878
 Ringing Date:
 9-5-2009

 Age (in days; 50 = juv.; 99 = ad.):
 1

| Resightings | of this bird: | |
|-------------|---------------|---------------------|
| Date | Site | Observer (s) |

| 21-6-2012 | Exmorra, Parregaastermeer | 53.03194 N 5.45361 E | The Netherlands | Rienk Jelle Hibma (RUG |
|-----------|--|-----------------------|-----------------|------------------------------------|
| 5-4-2013 | Workum, Workumermeer | 52.99278 N 5.46389 E | The Netherlands | Ysbrand Galama |
| 28-3-2014 | Gaast, Polder Gaast-Ferwoude | 53.01806 N 5.43194 E | The Netherlands | Rene Faber (RUG) |
| 14-2-2015 | Porto Alto, Cara Larga | 38.96167 N -8.92056 W | Portugal | Haije Valkema |
| 15-2-2015 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Egbert van der Velde |
| 12-5-2015 | Gaast, Jouke Sjoerdspolder | 53.00361 N 5.41972 E | The Netherlands | Emma Penning |
| 5-2-2016 | Porto Alto, Ze do Pinho | 38.96222 N -8.89167 W | Portugal | Haije Valkema |
| 6-2-2016 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Haije Valkema |
| 6-2-2016 | Porto Alto, Ze do Pinho | 38.96222 N -8.89167 W | Portugal | Haije Valkema |
| 31-3-2016 | Gaast, Jouke Sjoerdspolder | 53.00361 N 5.41972 E | The Netherlands | Ysbrand Galama |
| 3-6-2016 | Gaast, Jouke Sjoerdspolder | 53.00361 N 5.41972 E | The Netherlands | Mélodie Tort Guillaume Senterre |
| 15-6-2016 | Gaast, Jouke Sjoerdspolder | 53.00361 N 5.41972 E | The Netherlands | Guillaume Senterre |
| 3-2-2017 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Ysbrand Galama |

| 28-3-2017 | Piaam, Kooiwaard | 53.03111 N 5.40028 E | The Netherlands | Age Hulder Jos Hooijmeijer |
|------------|----------------------------|------------------------|-----------------|--|
| 18-4-2017 | Gaast, Jouke Sjoerdspolder | 53.00361 N 5.41972 E | The Netherlands | Age Hulder Wiebe Kaspersma |
| 21-2-2018 | Porto Alto, Cara Larga | 38.96167 N -8.92056 W | Portugal | Siebe Bonthuis |
| 21-2-2018 | Porto Alto, Cara Larga | 38.96167 N -8.92056 W | Portugal | Siebe Bonthuis |
| 21-2-2018 | Porto Alto, Cara Larga | 38.96167 N -8.92056 W | Portugal | Wim Tijsen |
| 23-2-2018 | Porto Alto, Cara Larga | 38.96167 N -8.92056 W | Portugal | Siebe Bonthuis |
| 30-3-2018 | Gaast, Jouke Sjoerdspolder | 53.00361 N 5.41972 E | The Netherlands | Ysbrand Galama Jos Hooijmeijer |
| 11-6-2018 | Gaast, Jouke Sjoerdspolder | 53.00361 N 5.41972 E | The Netherlands | Tim Oortwijn |
| 11-7-2018 | Pikesyl, Hisse- en Pikemar | 53.00111 N 5.57222 E | The Netherlands | Egbert van der Velde |
| 16-12-2018 | Unche | 12.01028 N -15.61444 W | Guinea Bissau | Jos Hooijmeijer Hamilton Monteiro Ruth Howison |

Colourcode: **B5BLLL**

Name Ringer:Egbert van der VeldeName 2nd Ringer:FillerRinging site:Heeg, De PineThe Netherlands52.97889 N 5.58306 E

 Ringnr:
 2505160
 Ringing Date:
 7-5-2014

 Age (in days; 50 = juv.; 99 = ad.):
 99

Resightings of this bird:

| Date | Site | Observer(s) |
|------|------|-------------|

| 15-6-2014 | Oudega, De Rige | 52.99556 N 5.56861 E | The Netherlands | Egbert van der Velde |
|-----------|--|-----------------------|-----------------|----------------------|
| 16-6-2014 | Heeg, De Pine | 52.97889 N 5.58306 E | The Netherlands | Egbert van der Velde |
| 17-6-2014 | Heeg, De Pine | 52.97889 N 5.58306 E | The Netherlands | Haije Valkema |
| 19-6-2014 | Heeg, De Pine | 52.97889 N 5.58306 E | The Netherlands | Egbert van der Velde |
| 12-2-2015 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Egbert van der Velde |
| 10-3-2015 | Pikesyl, Hisse- en Pikemar | 53.00111 N 5.57222 E | The Netherlands | Haije Valkema |
| 16-3-2015 | Sneek, Wite en Swarte Brekken | 52.596 N 5.403 E | The Netherlands | Haije Valkema |
| 11-4-2015 | Heeg, De Pine | 52.97889 N 5.58306 E | The Netherlands | Bert Zijlstra |
| 26-4-2015 | Heeg, De Pine | 52.97889 N 5.58306 E | The Netherlands | Bert Zijlstra |
| 6-6-2015 | Heeg, De Pine | 52.97889 N 5.58306 E | The Netherlands | Bert Zijlstra |
| 9-6-2015 | Heeg, De Pine | 52.97889 N 5.58306 E | The Netherlands | Haije Valkema |
| 23-6-2015 | Heeg, De Pine | 52.97889 N 5.58306 E | The Netherlands | Egbert van der Velde |
| 24-6-2015 | Heeg, De Pine | 52.97889 N 5.58306 E | The Netherlands | Egbert van der Velde |

| 25-6-2015 | Heeg, De Pine | 52.97889 N 5.58306 E | The Netherlands | Egbert van der Velde |
|-----------|--|-----------------------|-----------------|-----------------------------------|
| 25-6-2015 | Heeg, De Pine | 52.97889 N 5.58306 E | The Netherlands | Haije Valkema |
| 8-2-2016 | Porto Alto, Ze do Pinho | 38.96222 N -8.89167 W | Portugal | Haije Valkema |
| 11-2-2016 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Astrid Kant |
| 21-3-2016 | Heeg, De Pine | 52.97889 N 5.58306 E | The Netherlands | Egbert van der Velde |
| 14-6-2016 | Idzegea, It Joo | 52.98583 N 5.55500 E | The Netherlands | Haije Valkema |
| 18-1-2017 | Isla Mayor, Veta la Palma | 36.97083 N -6.23500 W | Spain | Rocío Marquez Ferrando |
| 13-2-2017 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Maarten Hotting |
| 16-3-2017 | Heeg, De Pine | 52.97889 N 5.58306 E | The Netherlands | Egbert van der Velde |
| 6-5-2017 | Heeg, De Pine | 52.97889 N 5.58306 E | The Netherlands | Bert Zijlstra |
| 12-6-2017 | Heeg, De Pine | 52.97889 N 5.58306 E | The Netherlands | Egbert van der Velde |
| 10-2-2018 | Santa Amalia | 39.00389 N -5.98611 W | Spain | Jos Hooijmeijer Libbe Zijlstra |
| 30-3-2018 | Heeg, De Pine | 52.97889 N 5.58306 E | The Netherlands | Egbert van der Velde |
| 26-5-2018 | Heeg, De Pine | 52.97889 N 5.58306 E | The Netherlands | Bert Zijlstra |
| 11-6-2018 | Pikesyl, Hisse- en Pikemar | 53.00111 N 5.57222 E | The Netherlands | Egbert van der Velde |
| 21-6-2018 | Harich, Trophorne | 52.93889 N 5.57222 E | The Netherlands | Ysbrand Galama Wiebe Kaspersma |

| 30-8-2018 | Oussouye, Niambalang mudflats | 12.447 N -16.480 W | Senegal | Jos Hooijmeijer |
|------------|-------------------------------|------------------------|---------------|-------------------|
| | | | | Idrissa Ndiaye |
| | | | | Ruth Howison |
| 18-12-2018 | Blom | 11.99556 N -15.79361 W | Guinea Bissau | Jos Hooijmeijer |
| | | | | Hamilton Monteiro |
| | | | | Ruth Howison |
| | | | | |

| Coloumoodou | B5BLLY | Name Rin |
|--------------|---------------|----------|
| Colour coue. | DJDLLI | Name 2nd |

 Ringnr:
 2505267
 Ringing Date:
 7-5-2014

 Age (in days; 50 = juv.; 99 = ad.):
 99

Name Ringer:Egbert van der VeldeName 2nd Ringer:Haije ValkemaRinging site:Oudega, TsjerkefeartThe Netherlands52.98667 N 5.54472 E

| Resightings | of this | bird: |
|-------------|---------|-------|
|-------------|---------|-------|

| 88- | | | |
|------|------|---|-------------|
| Date | Site | • | Observer(s) |

| 14-6-2014 | Idzegea, De Geeuw | 52.98417 N 5.56722 E | The Netherlands | Haije Valkema |
|-----------|--|-----------------------|-----------------|----------------------|
| 30-6-2014 | Koudum, Haanmeer | 52.92333 N 5.43500 E | The Netherlands | Rene Faber (RUG) |
| 5-2-2015 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Ysbrand Galama |
| 5-2-2015 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Gjerryt Hoekstra |
| 8-2-2015 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Gjerryt Hoekstra |
| 9-2-2015 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Ysbrand Galama |
| 14-2-2015 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Egbert van der Velde |
| 15-2-2015 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Egbert van der Velde |
| 18-2-2015 | Porto Alto, Cara Larga | 38.96167 N -8.92056 W | Portugal | Haije Valkema |
| 18-2-2015 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Egbert van der Velde |
| 25-2-2015 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Haije Valkema |
| 14-3-2015 | Idzegea, Bratte Polder | 52.97528 N 5.55056 E | The Netherlands | Haije Valkema |
| 14-3-2015 | Idzegea, Bratte Polder | 52.97528 N 5.55056 E | The Netherlands | Haije Valkema |

| 25-3-2015 | Oudega, Tsjerkefeart | 52.98667 N 5.54472 E | The Netherlands | Haije Valkema |
|-----------|--|-----------------------|-----------------|--|
| 27-5-2015 | Oudega, Tsjerkefeart | 52.98667 N 5.54472 E | The Netherlands | Egbert van der Velde |
| 11-2-2016 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Gjerryt Hoekstra |
| 11-2-2016 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Ysbrand Galama |
| 24-3-2016 | Oudega, Tsjerkefeart | 52.98667 N 5.54472 E | The Netherlands | Egbert van der Velde |
| 31-5-2016 | Idzegea, It Joo | 52.98583 N 5.55500 E | The Netherlands | Anneke Zeinstra |
| 14-6-2016 | Sanfirden, Sanfurd Brekkenkant | 52.98889 N 5.53111 E | The Netherlands | Egbert van der Velde |
| 16-6-2016 | Idzegea, It Joo | 52.98583 N 5.55500 E | The Netherlands | Egbert van der Velde |
| 5-2-2017 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Ysbrand Galama |
| 13-2-2017 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Maarten Hotting |
| 13-2-2017 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Wim Tijsen |
| 13-2-2017 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Wim Tijsen |
| 22-3-2017 | Oudega, Tsjerkefeart | 52.98667 N 5.54472 E | The Netherlands | Egbert van der Velde |
| 13-6-2017 | Sanfirden, Sanfurd Ringwielkant | 52.98167 N 5.53500 E | The Netherlands | Egbert van der Velde |
| 16-6-2017 | Sanfirden, Sanfurd Ringwielkant | 52.98167 N 5.53500 E | The Netherlands | Egbert van der Velde |
| 17-6-2017 | Sanfirden, Sanfurderhoek | 52.98611 N 5.51417 E | The Netherlands | Ysbrand Galama Egbert van der Velde Anna Hatsagi |

| 17-6-2017 | Sanfirden, Sanfurderhoek | 52.98611 N 5.51417 E | The Netherlands | Egbert van der Velde |
|------------|----------------------------|-------------------------|-----------------|--|
| 3-7-2017 | Harich, Trophorne | 52.93889 N 5.57222 E | The Netherlands | Jos Hooijmeijer |
| 9-2-2018 | Carregado, ricefields | 39.029416 N -8.941725 W | Portugal | Kees de Jager |
| 9-2-2018 | Carregado, ricefields | 39.029416 N -8.941725 W | Portugal | Egbert van der Velde |
| 9-2-2018 | Carregado, ricefields | 39.029416 N -8.941725 W | Portugal | Egbert van der Velde |
| 14-2-2018 | Carregado, ricefields | 39.029416 N -8.941725 W | Portugal | Haije Valkema |
| 20-2-2018 | Carregado, ricefields | 39.029416 N -8.941725 W | Portugal | Wim Tijsen |
| 14-3-2018 | Pikesyl, Hisse- en Pikemar | 53.00111 N 5.57222 E | The Netherlands | Egbert van der Velde |
| 15-3-2018 | Pikesyl, Hisse- en Pikemar | 53.00111 N 5.57222 E | The Netherlands | Egbert van der Velde |
| 21-5-2018 | Heeg, De Pine | 52.97889 N 5.58306 E | The Netherlands | Bert Zijlstra |
| 10-6-2018 | Workum, Workumermeer | 52.99278 N 5.46389 E | The Netherlands | Jan Kramer |
| 12-6-2018 | Pikesyl, Hisse- en Pikemar | 53.00111 N 5.57222 E | The Netherlands | Egbert van der Velde |
| 18-12-2018 | Blom | 11.99556 N -15.79361 W | Guinea Bissau | Jos Hooijmeijer Hamilton Monteiro Ruth Howison |

| Colourcode | e: G2GCCC | Name Ringer: Name 2nd Ringer: | Gerrit Gerritsen | |
|--------------|------------------------------------|----------------------------------|------------------|-------------------|
| Ringnr: 25 | Ringing Date: 2-6-2017 | Ringing site: Berk | um, Tolhuislande | n |
| Age (in days | ;; 50 = juv.; 99 = ad.): 50 | The Netherlands | 52.55361 N 6 | 5.18917 E |
| | | | | |
| Resightings | of this bird: | | | |
| Date | Site | | | Observer(s) |
| | | | | |
| | | | | |
| | | | | |
| 27-6-2017 | Zwolle, Vreugderijkerwaard | 52.51833 N 6.02528 E | The Netherlands | Gerrit Gerritsen |
| | | | | |
| 8-6-2018 | Rouveen, Polder Zuideindigerslag | 52.602 N 6.150 È | The Netherlands | Gerrit Gerritsen |
| | | | | |
| | | | | |
| 18-12-2018 | Blom | 11.99556 N -15.79361 W | Guinea Bissau | Jos Hooijmeijer |
| | | | | Hamilton Monteiro |

Ruth Howison

| Ringnr: 2509760 Ringing Date: 25-5-2017 Ringing site: Wommels, Zuidhoeksterpolder, Slachtedyk Age (in days; 50 = juv.; 99 = ad.): 13 The Netherlands 53.09639 N 5.56361 E Resightings of this bird: Date Site Observer(s) | Colourcode: G2PCGW | Name Ringer:Teade de BoerName 2nd Ringer:Atser Sybrandy |
|---|--------------------|---|
| | 0 | Ringing site:Wommels, Zuidhoeksterpolder, SlachtedykThe Netherlands53.09639 N 5.56361 E |
| | | Observer(s) |
| | | |

16-12-2018 Unche

12.01028 N -15.61444 W Guinea Bissau

Jos Hooijmeijer Hamilton Monteiro Ruth Howison

| Colourcod | e: G3CWPW | Name Ringer: Fred Cot Name 2nd Ringer: | taar | |
|---------------------------|---------------------------------------|---|-----------------------|--|
| Ringnr: 2 | 511951 Ringing Date: 28-4-2018 | Ringing site: De Woude, W | Vestwouderpolder | |
| Age (in day | s; 50 = juv.; 99 = ad.): 99 | The Netherlands 52.54 | 4639 N 4.76722 E | |
| | | | | |
| Resightings of this bird: | | | | |
| Date | Site | | Observer (s) | |
| | | | | |
| | | | | |
| | | | | |
| 17-12-2018 | Atotinha, rice fields | 12.272 N -15.899 W Guinea B | issau Jos Hooijmeijer | |
| | | | Hamilton Monteiro | |

Ruth Howison

| Colourcode: G5GGWW | Name Ringer:Astrid KantName 2nd Ringer: |
|---|---|
| Ringnr: 2508410 Ringing Date: 14-5-2015 | Ringing site: Vianen, Polder Vijfheerenlanden Noordwest |
| Age (in days; $50 = juv.; 99 = ad.$): 99 | The Netherlands 51.95611 N 5.10583 E |

| Resighting | s of this bird: | |
|------------|-----------------|-------------|
| Date | Site | Observer(s) |

| 6-2-2016 | Hernan Cortes | 39.03333 N -5.93333 W | Spain | Rosemarie Kentie |
|-----------|--|-----------------------|-----------------|------------------|
| 14-2-2016 | Santa Amalia | 39.00389 N -5.98611 W | Spain | Fred Cottaar |
| 14-2-2016 | Santa Amalia | 39.00389 N -5.98611 W | Spain | Haije Valkema |
| 15-2-2016 | Yelbes | 38.96944 N -6.00167 W | Spain | Fred Cottaar |
| 15-2-2016 | Santa Amalia | 39.00389 N -5.98611 W | Spain | Haije Valkema |
| 15-2-2016 | Yelbes | 38.96944 N -6.00167 W | Spain | Haije Valkema |
| 16-2-2016 | Yelbes | 38.96944 N -6.00167 W | Spain | Fred Cottaar |
| 16-2-2016 | Yelbes | 38.96944 N -6.00167 W | Spain | Haije Valkema |
| 9-4-2016 | Vianen, Achterkade | 51.956 N 5.083 E | The Netherlands | Jouke Altenburg |
| 14-4-2016 | Vianen, Polder Vijfheerenlanden Noordwest | 51.95611 N 5.10583 E | The Netherlands | Astrid Kant |
| 17-4-2016 | Vianen, Achterkade | 51.956 N 5.083 E | The Netherlands | Jouke Altenburg |
| 17-4-2016 | Vianen, Achterkade | 51.956 N 5.083 E | The Netherlands | Mario Huizinga |
| 5-5-2016 | Vianen, Achterkade | 51.956 N 5.083 E | The Netherlands | Astrid Kant |

| 14-5-2016 | Vianen, Achterkade | 51.956 N 5.083 E | The Netherlands | Astrid Kant |
|-----------|---------------------------|-----------------------|-----------------|---|
| 2-6-2016 | Vianen, Achterkade | 51.956 N 5.083 E | The Netherlands | Astrid Kant |
| 2-2-2017 | Casar de Miajadas | 39.13333 N -5.85000 W | Spain | Jelle Loonstra |
| 3-2-2017 | Casar de Miajadas | 39.13333 N -5.85000 W | Spain | Mo Verhoeven |
| 4-2-2017 | Casar de Miajadas | 39.13333 N -5.85000 W | Spain | Egbert van der Velde Wiebe Kaspersma |
| 5-2-2017 | Hernan Cortes | 39.03333 N -5.93333 W | Spain | Wiebe Kaspersma |
| 5-2-2017 | Hernan Cortes | 39.03333 N -5.93333 W | Spain | Egbert van der Velde |
| 6-2-2017 | Casar de Miajadas | 39.13333 N -5.85000 W | Spain | Wiebe Kaspersma |
| 6-2-2017 | Hernan Cortes | 39.03333 N -5.93333 W | Spain | Egbert van der Velde |
| 7-2-2017 | Hernan Cortes | 39.03333 N -5.93333 W | Spain | Wiebe Kaspersma |
| 7-2-2017 | Hernan Cortes | 39.03333 N -5.93333 W | Spain | Egbert van der Velde |
| 9-2-2017 | Santa Amalia | 39.00389 N -5.98611 W | Spain | Egbert van der Velde |
| 9-2-2017 | Santa Amalia | 39.00389 N -5.98611 W | Spain | Wiebe Kaspersma |
| 18-3-2017 | Everdingen, Lek forelands | 51.96639 N 5.16778 E | The Netherlands | Jouke Altenburg |
| 28-3-2017 | Everdingen, Lek forelands | 51.96639 N 5.16778 E | The Netherlands | Jouke Altenburg |
| 30-3-2017 | Everdingen, Lek forelands | 51.96639 N 5.16778 E | The Netherlands | Mario Huizinga |

| 2-4-2017 | Everdingen, Lek forelands | 51.96639 N 5.16778 E | The Netherlands | Jouke Altenburg |
|------------|--|------------------------|-----------------|--|
| 8-4-2017 | Everdingen, Lek forelands | 51.96639 N 5.16778 E | The Netherlands | Jouke Altenburg |
| 10-4-2017 | Everdingen, Lek forelands | 51.96639 N 5.16778 E | The Netherlands | Jouke Altenburg |
| 20-4-2017 | Everdingen, Lek forelands | 51.96639 N 5.16778 E | The Netherlands | Jouke Altenburg |
| 5-5-2017 | Vianen, Polder Vijfheerenlanden Noordwest | 51.95611 N 5.10583 E | The Netherlands | Astrid Kant Ronald Messemaker |
| 20-5-2017 | Vianen, Polder Vijfheerenlanden Noordwest | 51.95611 N 5.10583 E | The Netherlands | Astrid Kant |
| 31-5-2017 | Vianen, Polder Vijfheerenlanden Noordwest | 51.95611 N 5.10583 E | The Netherlands | Astrid Kant |
| 9-3-2018 | Lexmond, Achthoven, Lekuiterwaard | 51.96750 N 5.01472 E | The Netherlands | Astrid Kant Ronald Messemaker |
| 20-5-2018 | Vianen, Polder Vijfheerenlanden Noordwest | 51.95611 N 5.10583 E | The Netherlands | Astrid Kant |
| 28-5-2018 | Vianen, Polder Vijfheerenlanden Noordwest | 51.95611 N 5.10583 E | The Netherlands | Astrid Kant |
| 28-11-2018 | Mbissel | 14.143 N -16.745 W | Senegal | Jan Kramer Rennie Kramer Idrissa Ndiaye |
| 29-11-2018 | Mbissel | 14.143 N -16.745 W | Senegal | Jan Kramer Rennie Kramer Idrissa Ndiaye |
| 18-12-2018 | Blom | 11.99556 N -15.79361 W | Guinea Bissau | Jos Hooijmeijer Hamilton Monteiro Ruth Howison |

| Colourcod | e: G5PWWG | Name Ringer:Astrid KantName 2nd Ringer: |
|--------------|---------------------------------------|---|
| Ringnr: 2 | 515220 Ringing Date: 27-4-2018 | Ringing site: Vianen, Polder Vijfheerenlanden Noordwest |
| Age (in days | s; 50 = juv.; 99 = ad.): 99 | The Netherlands 51.95611 N 5.10583 E |
| Resightings | of this bird: | |
| Date | Site | Observer(s) |
| | | |
| | | |
| 18-12-2018 | Blom | 11.99556 N -15.79361 W Guinea Bissau Jos Hooijmeijer |

Hamilton Monteiro Ruth Howison

| Colourcode: | L1RLYL | |
|-------------|--------|--|
|-------------|--------|--|

Name Ringer: University of Extremadura Name 2nd Ringer: Mo Verhoeven **Ringing site:** Hernan Cortes

39.03333 N -5.93333 W

Ringnr: 4025386 **Ringing Date:** 10-2-2015 Age (in days; 50 = juv.; 99 = ad.): 99

Spain

| Resightings | of this bird: | | |
|-------------|---------------|--|-------------|
| Date | Site | | Observer(s) |

| 13-4-2015 | Kolhorn, Weerepolder | 52.780 N 4.869 E | The Netherlands | Wim Tijsen |
|------------|-------------------------------|-----------------------|-----------------|---|
| 2-6-2015 | Sint Maartensvlotbrug | 52.78333 N 4.71667 E | The Netherlands | Wim Tijsen |
| 16-12-2015 | Ilha de Pecixe | 11.790 N -16.104 W | Guinea Bissau | Jos Hooijmeijer Haije Valkema Hamilton Monteiro |
| 16-2-2016 | Ruecas | 39.04528 N -5.87500 W | Spain | Haije Valkema |
| 16-2-2016 | Ruecas | 39.04528 N -5.87500 W | Spain | Fred Cottaar |
| 30-5-2016 | 't Zand | 52.50111 N 4.74750 E | The Netherlands | Wim Tijsen |
| 4-6-2016 | 't Zand | 52.50111 N 4.74750 E | The Netherlands | Jos Hooijmeijer |
| 30-1-2018 | Hernan Cortes | 39.03333 N -5.93333 W | Spain | Pipe Abad |
| 7-2-2018 | Hernan Cortes - Medellín | 39.006 N -5.943 W | Spain | Pipe Abad |
| 7-2-2018 | Hernan Cortes - Medellín | 39.006 N -5.943 W | Spain | Jos Hooijmeijer Libbe Zijlstra |
| 13-12-2018 | Finingue, Finingue ricefields | 11.753 N -15.432 W | Guinea Bissau | Jos Hooijmeijer Ruth Howison |
| 14-12-2018 | Finingue, Finingue ricefields | 11.753 N -15.432 W | Guinea Bissau | Hamilton Monteiro Jos Hooijmeijer Ruth Howison Hamilton Monteiro |

Colourcode: L3LLLL Name Ringer: University of Groningen Name 2nd Ringer: Ysbrand Galama **Ringnr:** 2503053 **Ringing Date:** 19-3-2014 **Ringing site:** Workum, Polder de Beveiliging 52.99111 N 5.44694 E The Netherlands

Age (in days; 50 = juv.; 99 = ad.): 99

Resightings of this bird:

Site

Date

Observer(s)

| 22-4-2014 | Workum, Workumerbinnenwaard-Noord | 52.99611 N 5.41139 E | The Netherlands | Rosemarie Kentie |
|------------|--|-------------------------|-----------------|--|
| 22-11-2014 | Unche | 12.01028 N -15.61444 W | Guinea Bissau | Jos Hooijmeijer Haije Valkema Jan van der Kamp |
| 23-11-2014 | Unche | 12.01028 N -15.61444 W | Guinea Bissau | Jan van der Kamp Jos Hooijmeijer Haije Valkema |
| 27-11-2014 | Pache, Iala | 12.035 N -15.641 W | Guinea Bissau | Haije Valkema Jos Hooijmeijer Jan van der Kamp |
| 20-2-2015 | Porto Alto, Ze do Pinho | 38.96222 N -8.89167 W | Portugal | Haije Valkema |
| 21-2-2015 | Porto Alto, Cara Larga | 38.96167 N -8.92056 W | Portugal | Haije Valkema |
| 20-3-2015 | It Heidenskip, Heidenschapster Polder | 52.95250 N 5.48944 E | The Netherlands | Ysbrand Galama |
| 1-5-2015 | Workum, Workumerbinnenwaard-Noord | 52.99611 N 5.41139 E | The Netherlands | Gjerryt Hoekstra |
| 13-4-2016 | Workum, Workumermeer | 52.99278 N 5.46389 E | The Netherlands | Sofia Briosa e Scheltinga Atser Sybrandy (RUG) |
| 10-6-2016 | Workum, Workumerbinnenwaard-Noord | 52.99611 N 5.41139 E | The Netherlands | Gjerryt Hoekstra |
| 1-2-2017 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Ysbrand Galama |
| 10-2-2017 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Maarten Hotting |
| 11-2-2017 | Porto Alto, Giganta ricefields, Ponta da Erva, East | 38.910421 N -8.919625 W | Portugal | Maarten Hotting |

| 12-2-2017 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Wim Tijsen |
|------------|--|-------------------------|-----------------|--|
| 12-2-2017 | Porto Alto, Giganta ricefields, Ponta da Erva, East | 38.910421 N -8.919625 W | Portugal | Maarten Hotting |
| 16-2-2017 | Porto Alto, Giganta ricefields, Cardal | 38.921737 N -8.977164 W | Portugal | Jacob de Vries |
| 25-3-2017 | Workum, Workumerbuitenwaard-Noord | 52.99222 N 5.40167 E | The Netherlands | Alice McBride |
| 3-6-2017 | Workum, Workumerbinnenwaard-Noord | 52.99611 N 5.41139 E | The Netherlands | Alice McBride |
| 14-2-2018 | Carregado, ricefields | 39.029416 N -8.941725 W | Portugal | Egbert van der Velde |
| 14-2-2018 | Carregado, ricefields | 39.029416 N -8.941725 W | Portugal | Haije Valkema |
| 21-2-2018 | Porto Alto, Cara Larga | 38.96167 N -8.92056 W | Portugal | Wim Tijsen |
| 15-3-2018 | Pikesyl, Hisse- en Pikemar | 53.00111 N 5.57222 E | The Netherlands | Egbert van der Velde |
| 21-4-2018 | Workum, Workumerbinnenwaard-Noord | 52.99611 N 5.41139 E | The Netherlands | Alice McBride |
| 2-9-2018 | Ziguinchor, Colobane ricefields | 12.585 N -16.285 W | Senegal | Jos Hooijmeijer Idrissa Ndiaye |
| 16-12-2018 | Unche | 12.01028 N -15.61444 W | Guinea Bissau | Ruth Howison Jos Hooijmeijer Hamilton Monteiro Ruth Howison |

Colourcode: L3RYLY

Name Ringer:José AlvesName 2nd Ringer:Sara Pardal

 Ringnr:
 J018261
 Ringing Date:
 5-12-2015

 Age (in days; 50 = juv.; 99 = ad.):
 99

Ringing site:CumanoGuinea Bissau12.00889 N -15.66389 W

ige (in augs, 50 – juv., 55 – au.).

Resightings of this bird:

Date

Site

Observer(s)

| 18-12-2015 | Unche | 12.01028 N -15.61444 W | Guinea Bissau | Jos Hooijmeijer Haije Valkema Hamilton Monteiro |
|------------|---|-------------------------|-----------------|---|
| 7-2-2016 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Haije Valkema |
| 26-2-2016 | Ouderkerk a/d Amstel, Holendrechter en Bullewijkerpolder, Landje van Geijsel | 52.28167 N 4.93028 E | The Netherlands | Willem van der Waal |
| 29-2-2016 | Ouderkerk a/d Amstel, Holendrechter en Bullewijkerpolder, Landje van Geijsel | 52.28167 N 4.93028 E | The Netherlands | Anton Duijnhouwer |
| 3-3-2016 | Ouderkerk a/d Amstel, Holendrechter en Bullewijkerpolder, Landje van Geijsel | 52.28167 N 4.93028 E | The Netherlands | Anton Duijnhouwer |
| 31-1-2017 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Gjerryt Hoekstra |
| 10-2-2017 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Maarten Hotting |
| 11-2-2017 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Maarten Hotting |
| 12-2-2017 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Wim Tijsen |
| 12-2-2017 | Porto Alto, Giganta ricefields, Ponta da Erva, East | 38.910421 N -8.919625 W | Portugal | Maarten Hotting |
| 8-3-2017 | Ouderkerk a/d Amstel, Holendrechter en Bullewijkerpolder, Landje van Geijsel | 52.28167 N 4.93028 E | The Netherlands | Willem Brandhorst |
| 10-3-2017 | Hardenberg, uiterwaarden langs de Vecht | 52.56667 N 6.61667 E | The Netherlands | Johan Poffers |
| 22-3-2017 | Hardenberg, uiterwaarden langs de Vecht | 52.56667 N 6.61667 E | The Netherlands | Bert Stegeman |

Jos Hooijmeijer Hamilton Monteiro Ruth Howison Colourcode: R2BLRB Name Ringer: R Name 2nd Ringer: J

 Ringnr:
 2510409
 Ringing Date:
 9-6-2014

 Age (in days;
 50 = juv.;
 99 = ad.):
 21

Name Ringer:Rienk Jelle HibmaName 2nd Ringer:Jikke BergsmaRinging site:Tzum, Zuiderpolder, LollumerwegThe Netherlands53.15 N 5.54 E

Resightings of this bird:

| Date | Site | Observer(s) |
|------|------|-------------|

| 24-7-2015 | Tiguet, Station Biologique du PN du Djoudj | 16.35000 N -16.26667 W | Senegal | Haije Valkema |
|------------|---|-------------------------|-----------------|--|
| 25-7-2015 | Tiguet, Station Biologique du PN du Djoudj | 16.35000 N -16.26667 W | Senegal | Haije Valkema |
| 4-4-2016 | Beauvoir-sur-Mer, Les Terres | 46.91667 N -2.05000 W | France | Perrine Dulac Clément Justin Thomas Chesnel |
| 8-4-2016 | Beauvoir-sur-Mer, Les Terres | 46.91667 N -2.05000 W | France | Perrine Dulac Frédéric Signoret |
| 13-2-2018 | Carregado, ricefields | 39.029416 N -8.941725 W | Portugal | Haije Valkema |
| 21-6-2018 | Wommels, Skrok | 53.11194 N 5.60167 E | The Netherlands | Jan Kramer |
| 2-7-2018 | Workum, Workumermeer | 52.99278 N 5.46389 E | The Netherlands | Ysbrand Galama |
| 13-12-2018 | Finingue, Finingue ricefields | 11.753 N -15.432 W | Guinea Bissau | Jos Hooijmeijer Ruth Howison Hamilton Monteiro |

| Colourcode | R3BRYL | Name Ringer: Name 2nd Ringer: | Astrid Kant | |
|--------------|-------------------------------------|----------------------------------|-------------------|----------------------|
| Ringnr: 25 | Ringing Date: 6-6-2014 | Ringing site: Viar | en, Polder Vijfhe | erenlanden Noordwest |
| Age (in days | ; 50 = juv.; 99 = ad.): 23 | The Netherlands | 51.95611 N 5 | 5.10583 E |
| | | | | |
| Resightings | of this bird: | | | |
| Date | Site | | | Observer(s) |
| | | | | |
| | | | | |
| 4-7-2014 | Haastrecht, Hooge Boezem, Doove Gat | 51.9916 N 4.7898 E | The Netherlands | Maurice Kruk |
| | | | | |
| 10-3-2017 | Vianen, Polder Vijfheerenlanden | 51.95611 N 5.10583 E | The Netherlands | Astrid Kant |
| | Noordwest | | | Ronald Messemaker |
| 24-2-2018 | Carrasqueira | 38.40222 N -8.76028 W | Portugal | Siebe Bonthuis |

18-12-2018 Blom 11.99556 N -15.79361 W Guinea Bissau Jos Hooijmeijer Hamilton Monteiro Ruth Howison

Name Ringer: Colourcode: **R3RYBB**

Ringnr: 2508361 **Ringing Date:** 19-5-2014 Age (in days; 50 = juv.; 99 = ad.): 12

Name 2nd Ringer: Ronald Messemaker Ringing site: Vianen, Polder Vijfheerenlanden Noordwest 51.95611 N 5.10583 E The Netherlands

Astrid Kant

Res

Da

| esightings | of this bird: | |
|------------|---------------|-------|
| ate | Site | Obser |

rver(s)

| 9-2-2015 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Ysbrand Galama |
|------------|--|------------------------|-----------------|----------------------------------|
| 29-5-2015 | Kedichem, Polder Vijfheerenlanden West | 51.89278 N 5.03278 E | The Netherlands | Astrid Kant Ronald Messemaker |
| 13-6-2015 | Workum, Workumerbinnenwaard-Noord | 52.99611 N 5.41139 E | The Netherlands | Dirk Kuiken |
| 30-6-2015 | Workum, Workumerbinnenwaard-Noord | 52.99611 N 5.41139 E | The Netherlands | Haije Valkema |
| 30-6-2015 | Workum, Workumerbinnenwaard-Noord | 52.99611 N 5.41139 E | The Netherlands | Jelle Loonstra |
| 12-12-2015 | Unche | 12.01028 N -15.61444 W | Guinea Bissau | Haije Valkema Jos Hooijmeijer |
| 4-2-2016 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Hamilton Monteiro Wim Tijsen |
| 4-2-2016 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Haije Valkema |
| 10-2-2016 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Astrid Kant |
| 10-2-2016 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Astrid Kant |
| 10-2-2016 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Ysbrand Galama |
| 10-2-2016 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Astrid Kant |
| 13-2-2016 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Ysbrand Galama |

| 13-2-2016 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Gjerryt Hoekstra |
|------------|--|------------------------|-----------------|--|
| 30-1-2017 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Ysbrand Galama |
| 6-2-2017 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Maarten Hotting |
| 19-3-2017 | Kedichem, Polder Vijfheerenlanden West | 51.89278 N 5.03278 E | The Netherlands | Astrid Kant |
| 18-12-2018 | Blom | 11.99556 N -15.79361 W | Guinea Bissau | Jos Hooijmeijer Hamilton Monteiro Ruth Howison |

| Ringnr: 2 | e: R4LLBL 503377 Ringing Date: 7-6-2013 s; 50 = juv.; 99 = ad.): 20 | Name Ringer: Name 2nd Ringer: Ringing site: Hob The Netherlands | · | • |
|-------------|---|--|-----------------|----------------|
| | | | | |
| Resightings | of this bird: | | | |
| Date | Site | | | Observer(s) |
| | | | | |
| 16-7-2013 | Hilversum, Bovenmeent | 52.27722 N 5.11444 E | The Netherlands | Rene Faber |
| 23-7-2018 | Tiguet, Station Biologique du PN du Djoudj | 16.35000 N -16.26667 W | Senegal | Idrissa Ndiaye |
| 9-8-2018 | Tiguet, Station Biologique du PN du Djoudj | 16.35000 N -16.26667 W | Senegal | Idrissa Ndiaye |

| 18-12-2018 | Blom | 11.99556 N -15.79361 W | Guinea Bissau | Jos Hooijmeijer |
|------------|------|------------------------|---------------|-------------------|
| | | | | Hamilton Monteiro |
| | | | | Ruth Howison |

Colourcode: **R5BBBB**

Name Ringer:Astrid KantName 2nd Ringer:Ronald Messemaker

 Ringnr:
 2502610
 Ringing Date:
 31-5-2013

 Age (in days; 50 = juv.; 99 = ad.):
 13

Ringing site:Leerdam, Polder Vijfheerenlanden ZuidoostThe Netherlands51.91167 N 5.10694 E

Resightings of this bird:

| Resigntings | of this bird: | |
|-------------|---------------|-------------|
| Date | Site | Observer(s) |

| 19-12-2013 | Isla Mayor, Veta la Palma | 36.97083 N -6.23500 W | Spain | Jos Hooijmeijer |
|------------|--|-----------------------|-----------------|-----------------------------------|
| 6-2-2014 | Isla Mayor, Veta la Palma | 36.97083 N -6.23500 W | Spain | Jos Hooijmeijer Tom Jager |
| 19-2-2014 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Rienk Jelle Hibma |
| 9-2-2015 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Ysbrand Galama |
| 9-2-2015 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Ysbrand Galama |
| 12-2-2015 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Haije Valkema |
| 12-2-2015 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Egbert van der Velde |
| 15-2-2015 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Egbert van der Velde |
| 6-3-2015 | Everdingen, Lek forelands | 51.96639 N 5.16778 E | The Netherlands | Jouke Altenburg Mario Huizinga |
| 7-3-2015 | Everdingen, Lek forelands | 51.96639 N 5.16778 E | The Netherlands | Mario Huizinga |
| 7-3-2015 | Everdingen, Lek forelands | 51.96639 N 5.16778 E | The Netherlands | Jouke Altenburg Mario Huizinga |
| 8-3-2015 | Everdingen, Lek forelands | 51.96639 N 5.16778 E | The Netherlands | Mario Huizinga |
| 9-3-2015 | Everdingen, Lek forelands | 51.96639 N 5.16778 E | The Netherlands | Mario Huizinga Jouke Altenburg |

| 30-5-2015 | Everdingen, Lek forelands | 51.96639 N 5.16778 E | The Netherlands | Mario Huizinga |
|------------|--|------------------------|-----------------|--|
| 1-6-2015 | Everdingen, Lek forelands | 51.96639 N 5.16778 E | The Netherlands | Mario Huizinga |
| 3-6-2015 | Everdingen, Lek forelands | 51.96639 N 5.16778 E | The Netherlands | Mario Huizinga |
| 30-1-2017 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Ysbrand Galama |
| 31-1-2017 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Ysbrand Galama |
| 13-3-2017 | Lexmond, Achthoven, Lekuiterwaard | 51.96750 N 5.01472 E | The Netherlands | Mario Huizinga |
| 18-12-2018 | Blom | 11.99556 N -15.79361 W | Guinea Bissau | Jos Hooijmeijer Hamilton Monteiro Ruth Howison |

Colourcode: **R6BBBR**

Name Ringer: Jan F de Jong Name 2nd Ringer: Ringing site: Buren, Grie

The Netherlands 53.44639 N 5.82000 E

 Ringnr:
 3558448
 Ringing Date:
 26-5-2010

 Age (in days; 50 = juv.; 99 = ad.):
 99

| Resightings | of this bird: | |
|-------------|---------------|-------------|
| Date | Site | Observer(s) |

| 26-5-2010 | Buren, Leyesloot | 53.44194 N 5.80917 E | The Netherlands | Tom Voortman |
|-----------|--|-----------------------|-----------------|---------------|
| 11-6-2010 | Buren, Kooiplaats, Ameland | 53.44944 N 5.83028 E | The Netherlands | Tom Voortman |
| 13-6-2010 | Buren, Kooiplaats, Ameland | 53.44944 N 5.83028 E | The Netherlands | Tom Voortman |
| 10-7-2010 | Buren, Grie | 53.44639 N 5.82000 E | The Netherlands | Jan F de Jong |
| 20-2-2011 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Stef Waasdorp |
| 11-4-2011 | Buren, Grie | 53.44639 N 5.82000 E | The Netherlands | Jan F de Jong |
| 13-4-2011 | Buren, Kooiplaats, Ameland | 53.44944 N 5.83028 E | The Netherlands | Tom Voortman |
| 23-5-2011 | Buren, Kooiplaats, Ameland | 53.44944 N 5.83028 E | The Netherlands | Tom Voortman |
| 24-5-2011 | Buren, Kooiplaats, Ameland | 53.44944 N 5.83028 E | The Netherlands | Tom Voortman |
| 19-6-2011 | Buren, Kooiplaats, Ameland | 53.44944 N 5.83028 E | The Netherlands | Tom Voortman |
| 19-2-2012 | Porto Alto, Ze do Pinho | 38.96222 N -8.89167 W | Portugal | Rene Faber |
| 24-2-2012 | Porto Alto, Toneca | 38.95361 N -8.93639 W | Portugal | Dirk Tanger |
| 8-4-2012 | Buren, Kooiplaats, Ameland | 53.44944 N 5.83028 E | The Netherlands | Tom Voortman |

| 10-4-2012 | Buren, Grie | 53.44639 N 5.82000 E | The Netherlands | H.A.J. Wolters |
|-----------|--|-----------------------|-----------------|-------------------------------|
| 10-4-2012 | Buren, Grie | 53.44639 N 5.82000 E | The Netherlands | Jan F de Jong |
| 25-5-2012 | Buren, Kooiplaats, Ameland | 53.44944 N 5.83028 E | The Netherlands | Tom Voortman |
| 29-5-2012 | Buren, Kooiplaats, Ameland | 53.44944 N 5.83028 E | The Netherlands | Tom Voortman |
| 12-2-2013 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Ysbrand Galama |
| 13-2-2013 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Gjerryt Hoekstra |
| 13-2-2013 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Ysbrand Galama |
| 8-4-2013 | Buren, Grie | 53.44639 N 5.82000 E | The Netherlands | Jan F de Jong |
| 10-4-2013 | Buren, Kooiplaats, Ameland | 53.44944 N 5.83028 E | The Netherlands | Tom Voortman |
| 24-4-2013 | Buren, Kooiplaats, Ameland | 53.44944 N 5.83028 E | The Netherlands | Tom Voortman |
| 25-4-2013 | Buren, Kooiplaats, Ameland | 53.44944 N 5.83028 E | The Netherlands | Tom Voortman |
| 26-4-2013 | Buren, Kooiplaats, Ameland | 53.44944 N 5.83028 E | The Netherlands | Tom Voortman |
| 4-2-2014 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Maarten Hotting Wim Tijsen |
| 5-2-2014 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Wim Tijsen |
| 8-2-2014 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Wim Tijsen |
| 10-2-2014 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Egbert van der Velde |

| 13-2-2014 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Egbert van der Velde |
|------------|--|-----------------------|-----------------|--|
| 19-2-2014 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Rienk Jelle Hibma |
| 21-2-2014 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Hendriekus Algra |
| 27-3-2014 | Buren, Grie | 53.44639 N 5.82000 E | The Netherlands | Jan F de Jong |
| 22-5-2014 | Buren, Grie | 53.44639 N 5.82000 E | The Netherlands | Jan F de Jong |
| 24-5-2014 | Buren, Grie | 53.44639 N 5.82000 E | The Netherlands | Jan F de Jong |
| 28-5-2014 | Buren, Kooiplaats, Ameland | 53.44944 N 5.83028 E | The Netherlands | Tom Voortman |
| 31-5-2014 | Buren, Kooiplaats, Ameland | 53.44944 N 5.83028 E | The Netherlands | Tom Voortman |
| 6-6-2014 | Buren, Kooiplaats, Ameland | 53.44944 N 5.83028 E | The Netherlands | Tom Voortman |
| 14-7-2014 | Buren, Kooiplaats, Ameland | 53.44944 N 5.83028 E | The Netherlands | Tom Voortman |
| 21-11-2014 | Pache, Iala | 12.035 N -15.641 W | Guinea Bissau | Jos Hooijmeijer Haije Valkema |
| 21-11-2014 | Pache, Iala | 12.035 N -15.641 W | Guinea Bissau | Jan van der Kamp Haije Valkema Jos Hooijmeijer |
| 9-2-2015 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Jan van der Kamp Ysbrand Galama |
| 9-2-2015 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Ysbrand Galama |
| 11-2-2015 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Egbert van der Velde |
| 16-2-2015 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Egbert van der Velde |

| 5-4-2015 | Buren, Grie | 53.44639 N 5.82000 E | The Netherlands | Jan F de Jong |
|------------|--|------------------------|-----------------|---|
| 7-12-2015 | Unche | 12.01028 N -15.61444 W | Guinea Bissau | José Alves |
| 11-12-2015 | Pache, Iala | 12.035 N -15.641 W | Guinea Bissau | Haije Valkema Jos Hooijmeijer Hamilton Monteiro |
| 12-12-2015 | Unche | 12.01028 N -15.61444 W | Guinea Bissau | Haije Valkema Jos Hooijmeijer Hamilton Monteiro |
| 18-12-2015 | Unche | 12.01028 N -15.61444 W | Guinea Bissau | Jos Hooijmeijer Hamilton Monteiro |
| 14-2-2016 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Ysbrand Galama |
| 30-4-2016 | Buren, Grie | 53.44639 N 5.82000 E | The Netherlands | Jan F de Jong |
| 30-5-2016 | Buren, Kooiplaats, Ameland | 53.44944 N 5.83028 E | The Netherlands | Tom Voortman |
| 4-6-2016 | Buren, Kooiplaats, Ameland | 53.44944 N 5.83028 E | The Netherlands | Tom Voortman |
| 2-2-2017 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Ysbrand Galama |
| 2-2-2017 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Gjerryt Hoekstra |
| 4-2-2017 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Jos Hooijmeijer |
| 4-2-2017 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Gjerryt Hoekstra |
| 4-2-2017 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Ysbrand Galama |
| 6-2-2017 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Maarten Hotting |
| 6-2-2017 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Wim Tijsen |

| 22-4-2017 | Buren, Kooiplaats, Ameland | 53.44944 N 5.83028 E | The Netherlands | Astrid Kant |
|------------|----------------------------|-------------------------|-----------------|--|
| 20-5-2017 | Buren, Kooiplaats, Ameland | 53.44944 N 5.83028 E | The Netherlands | Ronald Messemaker Tom Voortman |
| 13-6-2017 | Buren, Kooiplaats, Ameland | 53.44944 N 5.83028 E | The Netherlands | Tom Voortman |
| 15-6-2017 | Buren, Kooiplaats, Ameland | 53.44944 N 5.83028 E | The Netherlands | Tom Voortman |
| 8-2-2018 | Carregado, ricefields | 39.029416 N -8.941725 W | Portugal | Maarten Hotting |
| 14-2-2018 | Carregado, ricefields | 39.029416 N -8.941725 W | Portugal | Egbert van der Velde |
| 17-2-2018 | Carregado, ricefields | 39.029416 N -8.941725 W | Portugal | Egbert van der Velde |
| 25-3-2018 | Buren, Grie | 53.44639 N 5.82000 E | The Netherlands | Jan F de Jong |
| 11-4-2018 | Buren, Grie | 53.44639 N 5.82000 E | The Netherlands | Jan F de Jong |
| 16-12-2018 | Unche | 12.01028 N -15.61444 W | Guinea Bissau | Jos Hooijmeijer Hamilton Monteiro Ruth Howison |

Name Ringer: Ysbrand Galama Colourcode: Y2LBBL Name 2nd Ringer: Rinkje van der Zee **Ringnr:** 3619178 Ringing Date: 2-5-2008 Ringing site: It Heidenskip, Polder Aent Lieuwes 52.93333 N 5.48361 E The Netherlands

Age (in days; 50 = juv.; 99 = ad.): 99

| Resightings | of this bird: | |
|-------------|---------------|-------------|
| Date | Site | Observer(s) |

| 10-6-2008 | Workum, Workumerbinnenwaard-Zuid | 52.97917 N 5.41917 E | The Netherlands | Pedro Lourenço |
|------------|---|------------------------|-----------------|-------------------------------------|
| 11-2-2009 | Samora Correia, Samora Correia ricefields | 38.94194 N -8.88528 W | Portugal | Pedro Lourenço |
| 18-3-2009 | It Heidenskip, Polder Aent Lieuwes | 52.93333 N 5.48361 E | The Netherlands | Ysbrand Galama |
| 27-5-2009 | Koudum, Polder De Oosterling | 52.93444 N 5.45778 E | The Netherlands | Ysbrand Galama Lucie Schmaltz |
| 22-12-2009 | Blom | 11.99556 N -15.79361 W | Guinea Bissau | Jos Hooijmeijer Jan van der Kamp |
| 21-2-2010 | Samora Correia, Samora Correia ricefields | 38.94194 N -8.88528 W | Portugal | Hamilton Monteiro Job ten Horn |
| 22-2-2010 | Samora Correia, Samora Correia ricefields | 38.94194 N -8.88528 W | Portugal | Job ten Horn |
| 26-2-2010 | Samora Correia, Samora Correia ricefields | 38.94194 N -8.88528 W | Portugal | Job ten Horn |
| 19-3-2010 | It Heidenskip, Polder Aent Lieuwes | 52.93333 N 5.48361 E | The Netherlands | Anneke Rippen |
| 31-3-2010 | It Heidenskip, Polder Aent Lieuwes | 52.93333 N 5.48361 E | The Netherlands | Carola Poley |
| 1-4-2010 | It Heidenskip, Polder Aent Lieuwes | 52.93333 N 5.48361 E | The Netherlands | Carola Poley |
| 7-4-2010 | Koudum, Polder De Samenvoeging | 52.91000 N 5.46139 E | The Netherlands | Carola Poley |
| 7-4-2010 | Koudum, Polder De Samenvoeging | 52.91000 N 5.46139 E | The Netherlands | Carola Poley |

| 10-6-2010 | Hindeloopen, Grote Wiskepolder | 52.93694 N 5.43194 E | The Netherlands | Anneke Rippen |
|------------|--|-----------------------|-----------------|-----------------------------|
| 18-2-2011 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Job ten Horn |
| 24-3-2011 | Koudum, Polder De Samenvoeging | 52.91000 N 5.46139 E | The Netherlands | Ysbrand Galama |
| 11-4-2011 | It Heidenskip, Polder Aent Lieuwes | 52.93333 N 5.48361 E | The Netherlands | Pier Zijlstra |
| 15-4-2011 | It Heidenskip, Polder Aent Lieuwes | 52.93333 N 5.48361 E | The Netherlands | Chloë Guiraud |
| 6-6-2011 | Koudum, Polder De Oosterling | 52.93444 N 5.45778 E | The Netherlands | Ysbrand Galama |
| 22-6-2011 | It Heidenskip, Polder De Vooruitgang | 52.94278 N 5.48694 E | The Netherlands | Ysbrand Galama |
| 13-7-2011 | Workum, Workumerbinnenwaard-Noord | 52.99611 N 5.41139 E | The Netherlands | Ysbrand Galama |
| 16-2-2012 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Haije Valkema |
| 6-3-2012 | Oudega, Tsjerkemar | 52.99833 N 5.55361 E | The Netherlands | Haije Valkema |
| 28-3-2012 | It Heidenskip, Polder Aent Lieuwes | 52.93333 N 5.48361 E | The Netherlands | Ysbrand Galama |
| 5-6-2012 | It Heidenskip, Polder De Vooruitgang | 52.94278 N 5.48694 E | The Netherlands | Ysbrand Galama |
| 11-10-2012 | Isla Mayor, Veta la Palma | 36.97083 N -6.23500 W | Spain | Rocío Marquez Ferrando |
| 4-4-2013 | Koudum, Polder Grote Wester Gersloot- West | 52.90056 N 5.43194 E | The Netherlands | Jorge Gutiérrez |
| 12-4-2013 | It Heidenskip, Polder Aent Lieuwes | 52.93333 N 5.48361 E | The Netherlands | Jan Kramer |
| 15-4-2013 | It Heidenskip, Polder Aent Lieuwes | 52.93333 N 5.48361 E | The Netherlands | Jan Kramer Sieds Boersma |

| 25-4-2013 | It Heidenskip, Polder Aent Lieuwes | 52.93333 N 5.48361 E | The Netherlands | Niko Groen |
|-----------|--|-----------------------|-----------------|---------------------------------|
| 13-6-2013 | It Heidenskip, Polder Aent Lieuwes | 52.93333 N 5.48361 E | The Netherlands | Ysbrand Galama |
| 17-6-2013 | It Heidenskip, Polder De Vooruitgang | 52.94278 N 5.48694 E | The Netherlands | Ysbrand Galama |
| 19-6-2013 | It Heidenskip, Polder De Vooruitgang | 52.94278 N 5.48694 E | The Netherlands | Ysbrand Galama |
| 20-6-2013 | It Heidenskip, Polder Aent Lieuwes | 52.93333 N 5.48361 E | The Netherlands | Ysbrand Galama |
| 20-6-2013 | Koudum, Polder De Oosterling | 52.93444 N 5.45778 E | The Netherlands | Ysbrand Galama |
| 20-3-2014 | It Heidenskip, Polder Aent Lieuwes | 52.93333 N 5.48361 E | The Netherlands | Ysbrand Galama |
| 12-4-2014 | It Heidenskip, Polder Aent Lieuwes | 52.93333 N 5.48361 E | The Netherlands | Jan Kramer |
| 18-4-2014 | It Heidenskip, Polder Aent Lieuwes | 52.93333 N 5.48361 E | The Netherlands | Jan Kramer Rennie Kramer |
| 6-5-2014 | It Heidenskip, Polder Aent Lieuwes | 52.93333 N 5.48361 E | The Netherlands | Ciska Kramer Jan Kramer |
| 7-5-2014 | It Heidenskip, Polder Aent Lieuwes | 52.93333 N 5.48361 E | The Netherlands | Jan Kramer |
| 14-6-2014 | It Heidenskip, Polder Aent Lieuwes | 52.93333 N 5.48361 E | The Netherlands | Ysbrand Galama |
| 17-6-2014 | Workum, Workumermeer | 52.99278 N 5.46389 E | The Netherlands | Atser Sybrandy (RUG) |
| 20-6-2014 | Gaast, Polder Gaast-Ferwoude | 53.01806 N 5.43194 E | The Netherlands | Jelle Loonstra |
| 20-6-2014 | Gaast, Jouke Sjoerdspolder | 53.00361 N 5.41972 E | The Netherlands | Rene Faber (RUG) Dirk Tanger |
| 16-2-2015 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Egbert van der Velde |

| 25-3-2015 | It Heidenskip, Polder Aent Lieuwes | 52.93333 N 5.48361 E | The Netherlands | Ysbrand Galama |
|------------|--|-------------------------|-----------------|------------------------------------|
| 5-4-2015 | It Heidenskip, Polder Aent Lieuwes | 52.93333 N 5.48361 E | The Netherlands | Jan Kramer |
| 14-5-2015 | It Heidenskip, Polder Aent Lieuwes | 52.93333 N 5.48361 E | The Netherlands | Jan Kramer |
| 13-6-2015 | Workum, Polder de Beveiliging | 52.99111 N 5.44694 E | The Netherlands | Mo Verhoeven Ysbrand Galama |
| 2-7-2015 | Workum, Workumerbinnenwaard-Zuid | 52.97917 N 5.41917 E | The Netherlands | Alice McBride Ysbrand Galama |
| 4-7-2015 | Workum, Workumerbinnenwaard-Zuid | 52.97917 N 5.41917 E | The Netherlands | Ysbrand Galama |
| 18-12-2015 | Unche | 12.01028 N -15.61444 W | Guinea Bissau | Haije Valkema Hamilton Monteiro |
| 6-2-2016 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Haije Valkema |
| 22-2-2016 | Samorra Correia, Belmonte ricefields | 38.91667 N -8.83333 W | Portugal | Haije Valkema |
| 29-3-2016 | It Heidenskip, Polder Aent Lieuwes | 52.93333 N 5.48361 E | The Netherlands | Ysbrand Galama |
| 3-6-2016 | It Heidenskip, Polder Aent Lieuwes | 52.93333 N 5.48361 E | The Netherlands | Ysbrand Galama |
| 23-6-2016 | Idzegea, Bratte Polder | 52.97528 N 5.55056 E | The Netherlands | Egbert van der Velde |
| 20-3-2017 | It Heidenskip, Polder Aent Lieuwes | 52.93333 N 5.48361 E | The Netherlands | Riemer Miedema |
| 23-5-2017 | It Heidenskip, Polder Aent Lieuwes | 52.93333 N 5.48361 E | The Netherlands | Ysbrand Galama |
| 9-2-2018 | Carregado, ricefields | 39.029416 N -8.941725 W | Portugal | Kees de Jager |
| 14-2-2018 | Carregado, ricefields | 39.029416 N -8.941725 W | Portugal | Haije Valkema |

| 14-2-2018 | Carregado, ricefields | 39.029416 N -8.941725 W | Portugal | Astrid Kant Ronald Messemaker |
|------------|--------------------------------------|-------------------------|-----------------|--|
| 21-2-2018 | Porto Alto, Cara Larga | 38.96167 N -8.92056 W | Portugal | Siebe Bonthuis |
| 21-2-2018 | Porto Alto, Cara Larga | 38.96167 N -8.92056 W | Portugal | Siebe Bonthuis |
| 28-3-2018 | It Heidenskip, Polder Aent Lieuwes | 52.93333 N 5.48361 E | The Netherlands | Wiebe Kaspersma |
| 7-6-2018 | It Heidenskip, Polder Aent Lieuwes | 52.93333 N 5.48361 E | The Netherlands | Jan Kramer Evert H. Schaap |
| 8-6-2018 | It Heidenskip, Polder De Vooruitgang | 52.94278 N 5.48694 E | The Netherlands | Ysbrand Galama Riemer Miedema |
| 18-12-2018 | Blom | 11.99556 N -15.79361 W | Guinea Bissau | Jos Hooijmeijer Hamilton Monteiro Ruth Howison |

| Colourcode: Y2RLRB | Name Ringer:Krijn Trimbos (RUG)Name 2nd Ringer: |
|---|--|
| Ringnr: 3654128 Ringing Date: 7-5-2008 Age (in days; 50 = juv.; 99 = ad.): 99 | Ringing site:Stavoren, ZuidermeerpolderThe Netherlands52.87611 N 5.38361 E |
| Resightings of this bird: | |

| Date | Site | | Observer(s) |
|------|------|--|-------------|
| | | | |

| 28-5-2008 | Warns, Langakker- en Geeuwpolder | 52.88028 N 5.42194 E | The Netherlands | Krijn Trimbos (RUG) |
|-----------|---|-----------------------|-----------------|-------------------------------|
| 20-1-2009 | Samora Correia, Samora Correia ricefields | 38.94194 N -8.88528 W | Portugal | Pedro Lourenço |
| 29-1-2009 | Samora Correia, Samora Correia ricefields | 38.94194 N -8.88528 W | Portugal | Pedro Lourenço |
| 2-2-2009 | Samora Correia, Samora Correia ricefields | 38.94194 N -8.88528 W | Portugal | Pedro Lourenço |
| 16-3-2009 | Stavoren, Zuidermeerpolder | 52.87611 N 5.38361 E | The Netherlands | Ysbrand Galama |
| 27-4-2009 | Koudum, Polder Grote Wester Gersloot- West | 52.90056 N 5.43194 E | The Netherlands | Tamás Kiss |
| 4-6-2009 | Warns, Kampenspolder | 52.87472 N 5.39833 E | The Netherlands | Krijn Trimbos (RUG) |
| 9-2-2010 | Samorra Correia, Belmonte ricefields | 38.91667 N -8.83333 W | Portugal | Jos Hooijmeijer José Alves |
| 10-2-2010 | Porto Alto, Ze do Pinho | 38.96222 N -8.89167 W | Portugal | Jos Hooijmeijer |
| 17-2-2010 | Samora Correia, Samora Correia ricefields | 38.94194 N -8.88528 W | Portugal | Job ten Horn |
| 18-2-2010 | Samora Correia, Samora Correia ricefields | 38.94194 N -8.88528 W | Portugal | Job ten Horn |
| 24-2-2010 | Samora Correia, Samora Correia ricefields | 38.94194 N -8.88528 W | Portugal | Job ten Horn |
| 22-3-2010 | Stavoren, Zuidermeerpolder | 52.87611 N 5.38361 E | The Netherlands | Krijn Trimbos (RUG) |

| 15-4-2010 | Stavoren, Zuidermeerpolder | 52.87611 N 5.38361 E | The Netherlands | Bram Verheijen |
|-----------|--|-----------------------|-----------------|----------------------|
| 27-5-2011 | Stavoren, Zuidermeerpolder | 52.87611 N 5.38361 E | The Netherlands | Marten Sikkema (RUG) |
| 30-5-2011 | Stavoren, Zuidermeerpolder | 52.87611 N 5.38361 E | The Netherlands | Rene Faber |
| 13-3-2012 | Koudum, Polder Grote Wester Gersloot- West | 52.90056 N 5.43194 E | The Netherlands | Lucie Schmaltz |
| 26-3-2012 | It Heidenskip, Heidenschapster Polder | 52.95250 N 5.48944 E | The Netherlands | Gjerryt Hoekstra |
| 29-5-2012 | Warns, Kampenspolder | 52.87472 N 5.39833 E | The Netherlands | Jos Hooijmeijer |
| 17-2-2013 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Gjerryt Hoekstra |
| 12-3-2013 | Koudum, Haanmeer | 52.92333 N 5.43500 E | The Netherlands | Mo Verhoeven |
| 19-3-2013 | Koudum, Haanmeer | 52.92333 N 5.43500 E | The Netherlands | Nathan Senner |
| 28-3-2013 | Waverveen, Polder Groot-Mijdrecht Noord | 52.23583 N 4.90472 E | The Netherlands | Rene Faber |
| 9-5-2013 | Workum, Workumerbinnenwaard-Noord | 52.99611 N 5.41139 E | The Netherlands | Jos Hooijmeijer |
| 14-6-2013 | Koudum, Haanmeer | 52.92333 N 5.43500 E | The Netherlands | Rene Faber |
| 24-1-2014 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Stef Waasdorp |
| 22-2-2014 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Hendriekus Algra |
| 26-3-2014 | Stavoren, Zuidermeerpolder | 52.87611 N 5.38361 E | The Netherlands | Rene Faber (RUG) |
| 31-3-2014 | Stavoren, Zuidermeerpolder | 52.87611 N 5.38361 E | The Netherlands | Rene Faber (RUG) |

| 23-6-2014 | Stavoren, Zuidermeerpolder | 52.87611 N 5.38361 E | The Netherlands | Jos Hooijmeijer |
|-----------|--|-----------------------|-----------------|------------------------------------|
| 9-2-2015 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Ysbrand Galama |
| 20-2-2015 | Porto Alto, Cara Larga | 38.96167 N -8.92056 W | Portugal | Haije Valkema |
| 17-3-2015 | Koudum, Polder Grote Wester Gersloot- West | 52.90056 N 5.43194 E | The Netherlands | Marycha Franken |
| 11-6-2015 | Stavoren, Zuidermeerpolder | 52.87611 N 5.38361 E | The Netherlands | Marycha Franken |
| 16-6-2015 | Stavoren, Zuidermeerpolder | 52.87611 N 5.38361 E | The Netherlands | Marycha Franken |
| 24-6-2015 | Stavoren, Zuidermeerpolder | 52.87611 N 5.38361 E | The Netherlands | Marycha Franken |
| 25-6-2015 | Stavoren, Zuidermeerpolder | 52.87611 N 5.38361 E | The Netherlands | Marycha Franken |
| 1-7-2015 | Stavoren, Zuidermeerpolder | 52.87611 N 5.38361 E | The Netherlands | Ysbrand Galama Mo Verhoeven |
| 3-7-2015 | Stavoren, Zuidermeerpolder | 52.87611 N 5.38361 E | The Netherlands | Ysbrand Galama |
| 7-7-2015 | Stavoren, Zuidermeerpolder | 52.87611 N 5.38361 E | The Netherlands | Haije Valkema |
| 8-7-2015 | Stavoren, Zuidermeerpolder | 52.87611 N 5.38361 E | The Netherlands | Ysbrand Galama Jelle Loonstra |
| 9-7-2015 | Stavoren, Zuidermeerpolder | 52.87611 N 5.38361 E | The Netherlands | Haije Valkema |
| 3-2-2016 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Wim Tijsen |
| 3-2-2016 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Haije Valkema |
| 3-4-2016 | Koudum, Haanmeer | 52.92333 N 5.43500 E | The Netherlands | Wender Bil Paulien van der Werf |

| 11-2-2017 | Porto Alto, Giganta ricefields, Ponta da Erva, East | 38.910421 N -8.919625 W | Portugal | Maarten Hotting |
|------------|--|-------------------------|-----------------|--|
| 28-3-2017 | Stavoren, Zuidermeerpolder | 52.87611 N 5.38361 E | The Netherlands | Marycha Franken |
| 10-6-2017 | Stavoren, Zuidermeerpolder | 52.87611 N 5.38361 E | The Netherlands | Marycha Franken |
| 20-6-2017 | Stavoren, Zuidermeerpolder | 52.87611 N 5.38361 E | The Netherlands | Marycha Franken |
| 26-6-2017 | Stavoren, Zuidermeerpolder | 52.87611 N 5.38361 E | The Netherlands | Marycha Franken |
| 30-6-2017 | Stavoren, Zuidermeerpolder | 52.87611 N 5.38361 E | The Netherlands | Jos Hooijmeijer |
| 3-7-2017 | Stavoren, Zuidermeerpolder | 52.87611 N 5.38361 E | The Netherlands | Jos Hooijmeijer |
| 20-2-2018 | Carregado, ricefields | 39.029416 N -8.941725 W | Portugal | Siebe Bonthuis |
| 20-2-2018 | Carregado, ricefields | 39.029416 N -8.941725 W | Portugal | Siebe Bonthuis |
| 12-3-2018 | Koudum, Haanmeer | 52.92333 N 5.43500 E | The Netherlands | Mo Verhoeven |
| 19-3-2018 | Koudum, Haanmeer | 52.92333 N 5.43500 E | The Netherlands | Wiebe Kaspersma Jelle Loonstra |
| 6-6-2018 | Stavoren, Zuidermeerpolder | 52.87611 N 5.38361 E | The Netherlands | Marycha Franken |
| 16-12-2018 | Unche | 12.01028 N -15.61444 W | Guinea Bissau | Jos Hooijmeijer Hamilton Monteiro Ruth Howison |

| Colourcode: Y5 | IRRV | Name Ringer: | Sjoerd Hobma |
|------------------------|------------------------|------------------|----------------|
| | | Name 2nd Ringer: | Haije Valkema |
| Ringnr: 2502976 | Ringing Date: 7-6-2012 | Ringing site: Wo | orkum, Workume |

Age (in days; 50 = juv.; 99 = ad.): 14

Ringing site:Workum, Workumerbinnenwaard-NoordThe Netherlands52.99611 N 5.41139 E

| Resightings | of th | is bird: |
|-------------|-------|----------|
|-------------|-------|----------|

Date Site

Observer(s)

| 13-6-2012 | Workum, Workumerbinnenwaard-Noord | 52.99611 N 5.41139 E | The Netherlands | Jos Hooijmeijer |
|------------|--|------------------------|-----------------|--|
| 27-10-2013 | Isla Mayor, Veta la Palma | 36.97083 N -6.23500 W | Spain | Mo Verhoeven |
| 11-2-2014 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Haije Valkema |
| 9-4-2014 | Idzegea, It Joo | 52.98583 N 5.55500 E | The Netherlands | Haije Valkema |
| 13-4-2015 | Workum, Workumerbinnenwaard-Noord | 52.99611 N 5.41139 E | The Netherlands | Gjerryt Hoekstra |
| 14-4-2015 | Idzegea, It Joo | 52.98583 N 5.55500 E | The Netherlands | Egbert van der Velde |
| 24-1-2016 | Isla Mayor, Veta la Palma | 36.97083 N -6.23500 W | Spain | Haije Valkema |
| 19-2-2016 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Dirk Tanger |
| 21-3-2016 | Oudega, Tsjerkemar | 52.99833 N 5.55361 E | The Netherlands | Egbert van der Velde |
| 30-5-2016 | Gaastmeer, De Lange Hoek | 52.95000 N 5.53333 E | The Netherlands | Egbert van der Velde |
| 21-2-2018 | Porto Alto, Toneca | 38.95361 N -8.93639 W | Portugal | Siebe Bonthuis |
| 21-2-2018 | Porto Alto, Toneca | 38.95361 N -8.93639 W | Portugal | Siebe Bonthuis |
| 18-12-2018 | Blom | 11.99556 N -15.79361 W | Guinea Bissau | Jos Hooijmeijer Hamilton Monteiro Ruth Howison |

Colourcode: Y5LRRR

Name Ringer: Nathan Senner Name 2nd Ringer: Mo Verhoeven Ringing site: Koudum, Haanmeer The Netherlands 52.92333 N 5.43500 E

Ringnr: 2504840 Age (in days; 50 = juv.; 99 = ad.): 15

| 8- () | J , | |
|---------------------|------------|--|
| | | |
| | | |
| Resightings of this | s bird: | |

Ringing Date: 31-5-2013

Site Observer(s) Date

| 14-6-2013 | Workum, Workumerbinnenwaard-Noord | 52.99611 N 5.41139 E | The Netherlands | Rene Faber |
|-----------|--|-----------------------|-----------------|--------------------------------|
| 21-6-2013 | Koudum, Haanmeer | 52.92333 N 5.43500 E | The Netherlands | Ysbrand Galama Mo Verhoeven |
| 15-1-2014 | Isla Mayor, Veta la Palma | 36.97083 N -6.23500 W | Spain | Rene Faber |
| 8-2-2014 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Maarten Hotting |
| 21-2-2014 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Rienk Jelle Hibma |
| 21-2-2014 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Hendriekus Algra |
| 24-2-2014 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Rienk Jelle Hibma |
| 24-2-2014 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Hendriekus Algra |
| 9-4-2014 | Workum, Workumerbinnenwaard-Noord | 52.99611 N 5.41139 E | The Netherlands | Dolf van der Gaag |
| 7-2-2015 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Ysbrand Galama |
| 9-6-2015 | Warns, Kampenspolder | 52.87472 N 5.39833 E | The Netherlands | Marycha Franken |
| 11-2-2016 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Gjerryt Hoekstra |
| 11-2-2016 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Ysbrand Galama |

| 11-2-2016 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Ysbrand Galama |
|-----------|--|-------------------------|-----------------|--------------------------------|
| 24-2-2016 | Samorra Correia, Belmonte ricefields | 38.91667 N -8.83333 W | Portugal | Haije Valkema |
| 25-3-2016 | Stavoren, Zuidermeerpolder | 52.87611 N 5.38361 E | The Netherlands | Marycha Franken |
| 12-6-2016 | Stavoren, Zuidermeerpolder | 52.87611 N 5.38361 E | The Netherlands | Marycha Franken |
| 10-7-2016 | Koudum, Polder De Samenvoeging | 52.91000 N 5.46139 E | The Netherlands | Jelle Loonstra Mo Verhoeven |
| 2-2-2017 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Ysbrand Galama |
| 2-2-2017 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Gjerryt Hoekstra |
| 2-2-2017 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Gjerryt Hoekstra |
| 8-2-2017 | Porto Alto, Giganta ricefields, Ponta da Erva | 38.91667 N -8.93333 W | Portugal | Maarten Hotting |
| 16-2-2017 | Porto Alto, Giganta ricefields, Cardal | 38.921737 N -8.977164 W | Portugal | Jacob de Vries |
| 12-3-2017 | Koudum, Haanmeer | 52.92333 N 5.43500 E | The Netherlands | Wiebe Kaspersma |
| 14-3-2017 | Koudum, Polder Grote Wester Gersloot- West | 52.90056 N 5.43194 E | The Netherlands | Wiebe Kaspersma |
| 17-3-2017 | Koudum, Polder Grote Wester Gersloot- West | 52.90056 N 5.43194 E | The Netherlands | Wiebe Kaspersma |
| 10-4-2017 | Stavoren, Zuidermeerpolder | 52.87611 N 5.38361 E | The Netherlands | Marycha Franken |
| 18-2-2018 | Carregado, ricefields | 39.029416 N -8.941725 W | Portugal | Wim Tijsen |
| 17-3-2018 | Molkwerum, Noorderpolder | 52.91139 N 5.41778 E | The Netherlands | Jelle Loonstra |

18-12-2018 Blom

11.99556 N -15.79361 W Guinea Bissau

Jos Hooijmeijer Hamilton Monteiro Ruth Howison