

***PHENOLOGY AND DISTRIBUTION OF THE
COMMON CRANES (Grus grus) IN SPAIN
2023/2024***



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Image nº 1: Cranes leaving the roost near Aldea del Cano (CC) Photo: José A. Román

THANKS

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INTRODUCTION

The common crane is a bird belonging to the *Gruidae* family within the order *Gruiformes*. It breeds across the northern Palearctic (Jonhsgard, 1983), from the Scandinavian Peninsula to Siberia and to the south from central Europe (Germany, Czech Republic and Ukraine) to Mongolia and northern Manchuria in the east.

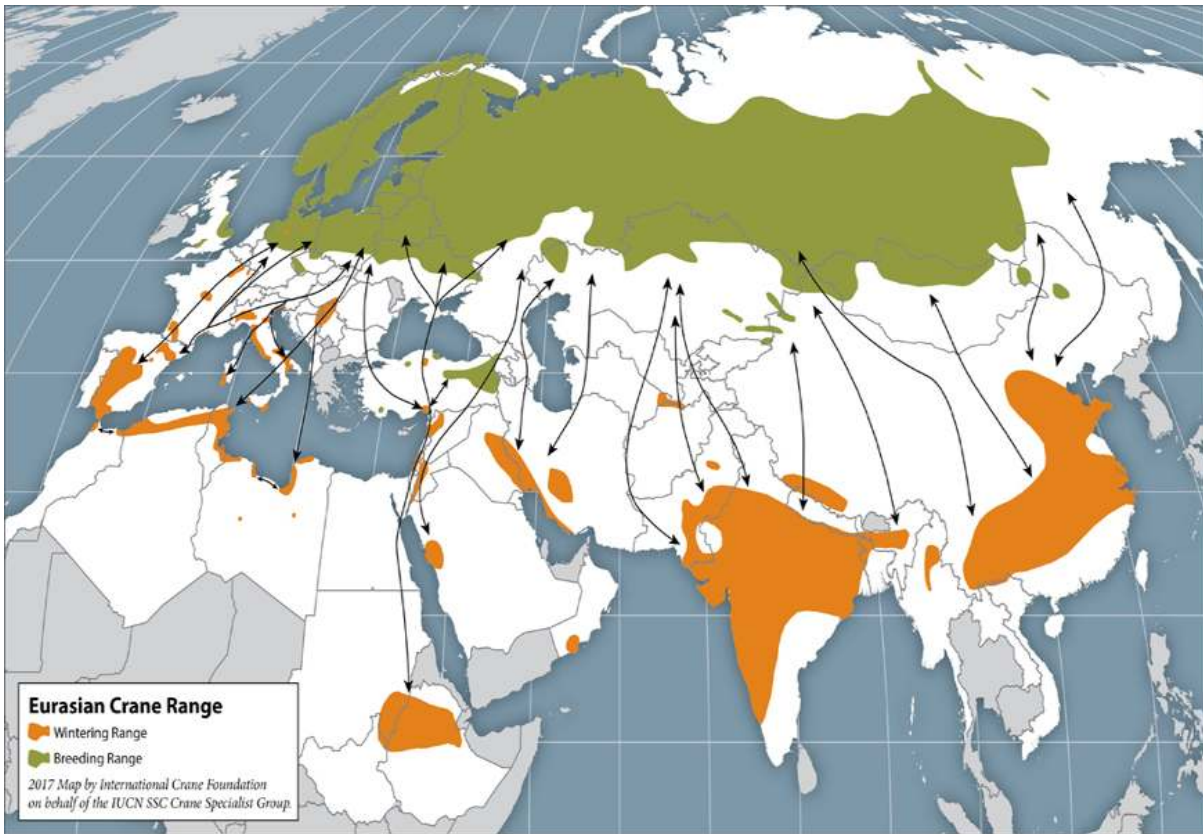
The crane is a polytypical species, with four subspecies recognised: *Grus grus grus* Linnaeus, 1758, *Grus grus lilfordi* Sharpe, 1894, *Grus grus archibaldi* Ilyashenko, 2008 and *Grus grus korolevi* Ilyashenko y Belyalov, 2013. Of these, the dominant subspecies are *Grus g. grus* and *Grus g. lilfordi*.

The subspecies *Grus g. lilfordi* is distributed throughout Asia and it should be noted that the majority of the population migrates within that continent, from the Middle East to Korea. The subspecies *Grus g. grus* is distributed throughout Europe. Those from the west

migrate to Spain, those from the centre and east of Europe migrate to Africa and Arabian Peninsula.

The distribution limit of both subspecies is not clearly defined, but the eastern race is generally found east of the Obi River, while the western subspecies is found to the west of the Pechora and Volga Rivers.

Currently the Asian population is smaller than the European, with an estimated 120,000 individuals of the former (Prange, 2015), with populations that are in decline. These are primarily as a consequence of the end of the Soviet Union especially as a result of agricultural changes, which led to a significant decline in the Russian populations (Ilyashenko & Markin, 2010).



Harris J, Mirande C, editors. In Preparation. Crane Conservation Strategy, International Crane Foundation, Baraboo, Wisconsin.

Map nº 1: Distribution, migration routes and wintering areas of common cranes. Source: I.C.F.

Conversely, the western population is constantly increasing, being estimated at over 580,000 cranes, probably due to protecting the species along with improving and restoring the breeding habitats.

In recent years we have been witnessing periods of drought in some breeding areas in Germany and Sweden, which are affecting local productivity. In the long run, this may imply a reduction in the population due to the lack of suitable breeding habitat and greater competition for the most favourable areas, which would also influence productivity, so we must be cautious and observe the evolution of the species in the coming years.

The majority of the western population of cranes is distributed across the north, centre and east of the European continent, with small numbers in the south of the continent, such as Turkey, and Transcaucasia in Asia (Prange 1997, 2006, 2007, 2015).

Currently the bulk of the west European breeding population is found in Finland, Scandinavian countries, the Baltic Republics, Poland and Germany. Other countries, such as the Czech Republic, Ukraine and Belarus, have smaller populations. There are recent cases of recolonisation, such as in the United Kingdom, where they began breeding in Norfolk in 1979 (Buxton, 1987), after 400 years, and where there is a reintroduction programme in Somerset. They have also naturally recolonized France since 1985 (where they became extinct in the 19th century) initially this happened in Normandy, but the majority of the breeding population is in Lorraine, with some 35/50 pairs (Salvi & Dulau 2018).

They have also bred in the Netherlands since 2001, where there are some 10 breeding pairs (Feenstra & Kuipers 2021), and recently, in 2021, they have bred in Belgium and Ireland (where they became extinct in the 17th Century).

In the Iberian Peninsula the species became extinct in the 20th Century; it used to breed in the Guadalquivir marshes, La Janda lagoon and the Sado estuary in the 19th Century (Bragança 1893). Successful breeding has only been proven in the marshes in 2017 and although in subsequent years up to two pairs nested (both originating from the La Cañada de los Pájaros Centre) these failed due to predation.

HABITAT

The common crane generally inhabits open areas in or near wetlands, where they feed and shelter. In countries where they breed, they nest in wetlands with dense vegetation and groves of trees, such as birches, placing nests on the ground. During this period they are not gregarious, with territorial pairs jealously defending their territories from other cranes. Gatherings are only seen of small groups of immature birds, or young of the previous year, which are roaming in search of feeding resources. Outside the breeding season, they visit recently-harvested cereal fields in search of grains, and also recently-sown fields that have already sprouted, forming groups whose size depends on the availability of food.

During the pre-migration and migration period, cranes are seen feeding in open fields, and they gather at particular wetlands (reservoirs, lagoons and other water-bodies) to sleep with cranes from neighbouring areas. The size of these concentrations depends on the availability of wetlands and feeding areas.

In the wintering areas, cranes historically occupied the dehesas of south-western Iberia, but following population growth and the planting of extensive areas with crops such as maize, this pattern has changed, and now it is common to see large flocks in stubble fields of this cereal, rice and other cereals. However, they still occupy the dehesas at the start of winter, when there is a readily-available supply of acorns, but maintain the same routines: sleeping in wetlands and feeding in the surrounding fields by day.

MIGRATION

The phenomenon of migration is one of the most striking and interesting aspects of cranes, which do not go un-noticed wherever they go, drawing attention by the flying formation and calling that accompanies their movements, by day or by night, not leaving

out any European citizen, as their routes cross practically all the countries of the continent, as well as Asia Minor and northern Africa.

From the end of summer, cranes begin to collect in favoured areas (where thousands may gather) and begin to leave on migration in groups, heading for the wintering areas. This migration may begin early or late depending on the weather conditions, which also influence the duration of migration, as does the availability of food in resting areas along the migration route. They may leave early if there is no food, or they may extend their stay when resources are abundant.

The majority of the western population of cranes winter in south-western Europe, in dehesas, cultivated fields and wetlands in the Iberian Peninsula, France and Germany, while a fraction do so in northern Africa (Morocco, Algeria, Tunisia and Libya). Some of the European Russian, Finnish, Baltic and Belarusian cranes spend the winter in Sudan, Ethiopia and Eritrea, with a lesser number in Turkey, Israel, Iraq and parts of Iran.

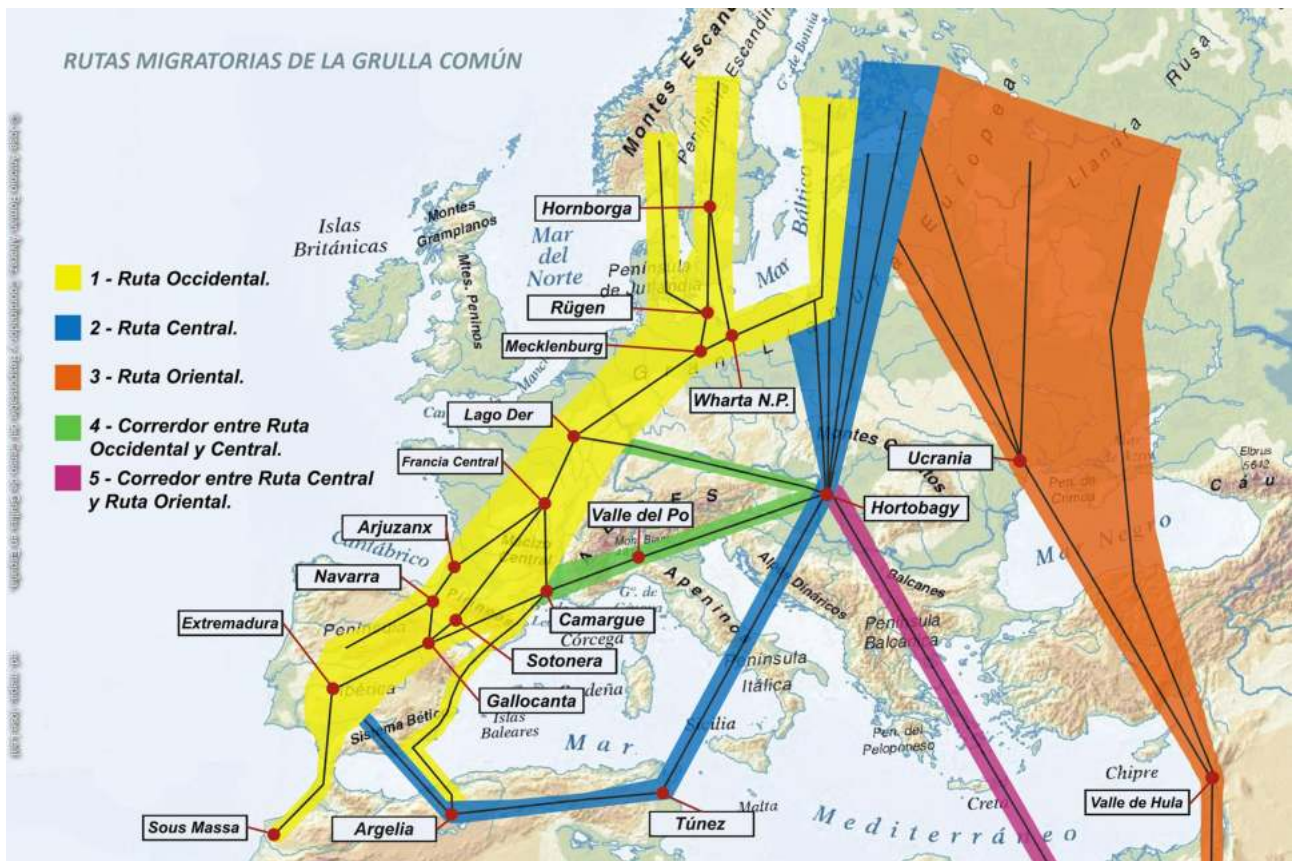
The migration routes of cranes pass through two regions:

Geographical Region	N.º Birds
Europe	500,000
Asia	150,000
Total	650,000

The traditional routes of the European population of cranes pass through three main corridors:

- The East European Route, the migration route of the cranes that winter in Africa, originating in the most easterly populations of the Baltic region, Finland, Ukraine and western Russia, crossing the Black Sea and flying to the Jordan Valley, to rest at Hula Lake in Israel and then continue to Eilat, in the Sinai, crossing the Red Sea and going on to the Nile Valley and following the river to their wintering quarters around Lake Tana (Ethiopia). Some 70,000 cranes are estimated to use this route (Prange 2015)
- The Baltic-Hungarian Route (Central route), which birds from the Baltic region, Finland and Belarus follow to Hortobagy National Park in Hungary (where they stay for weeks), then they continue to the Balkans, crossing Croatia, the Italian Peninsula and the Mediterranean to spend the winter in Tunisia and Algeria. Some of these birds head for the Bosphorus Straits in Turkey, looking for the route to Asia Minor, or even going through Greece and Cyprus to cross directly to northern Africa. This route could be used by the least 150,000 birds (Prange 2015) but given it is increasingly important, the figure could possibly be nearer 200,000 individuals.

- The West European Route, flown by Scandinavian birds which have previously gathered at Hornborga lake, fly to Rügen Island in Germany and then to this country, where they rest and feed and are joined in the Mecklenburg-Vorpommern area, by birds from Poland, Baltic countries and Finland. These flocks then head for Lac du Der, in Chantecoq in the north-east of France. From the middle of September, they may migrate in a staggered and continuous fashion or in big waves, depending on the weather conditions, being able to stay in this area for weeks. They continue their journey across France, south-westwards to Les Landes, Aquitaine, where they stop again before crossing the Pyrenees (although they may cross them directly if the weather conditions are favourable). They usually cross the mountain range through the valleys of Navarra and the most westerly ones of Aragón to head for Gallocanta Lagoon, an obligatory rest stop for the majority of them. A minority continue the journey across La Rioja without going to Gallocanta, heading across Tierra de Campos to La Nava Lagoon, following the old traditional route. Valverde (1952) described this migration route which they took across Castile, which was the usual route that they used to get to the wintering areas in south-western Iberia until the first half of the 20th Century, to arrive in Salamanca, Extremadura, Andalucía and Portugal. The desiccation of the majority of wetlands on this route (La Nava and others) produced a change of strategy and in the 1970s (Fernández Cruz 1982) they began to migrate through the centre of the Peninsula from Gallocanta, following the route with staging posts at some reservoirs in Castille-La Mancha, such as Buendía. After crossing the centre of the country, they spread across La Mancha lands (reaching Fuente de Piedra in Málaga), while some occupied neighbouring parts of Toledo, or continued to Ávila, Salamanca, Valladolid and Zamora. The bulk will continue to Extremadura, some via the Valdecañas reservoir to spread across Cáceres province, others via the Cíjara Valley to Orellana, entering the Central Zone of Extremadura (Upper Guadiana Valley) where they rest and feed, using this area as a corridor that leads them to spread throughout the region: Portugal, northern Córdoba, the Sevilla area, Doñana and La Janda, from where a few hundred may cross the Straits of Gibraltar to spend the winter in Morocco. There is also a corridor in eastern Spain which takes them to northern Africa without needing to cross at the Straits. This is the main route that cranes use, some 400,000 birds using it each year.



Map nº 2: Principal routes followed by European cranes on migration

Migration begins with the northern-most birds, where bad weather events occur earliest and days shorten rapidly. This photoperiod marks the first movements and these most northerly birds are those that will fly furthest and travel the most kilometers. On the other hand, Central European cranes usually fly shorter distances and winter in nearer latitudes to their breeding areas.

In general, autumn migration is more leisurely and can last more than two months (from October to December), until the breeding territories have been abandoned. It can even last into January, as mild winters are becoming more frequent in central Europe and allow many cranes to stay in or near their breeding area, and when a bad weather front arrives they move to the west-southwest, even crossing the Pyrenees, depending on the strength of it.

Cranes will be concentrated in certain favourable areas, where there is abundant food and there are tranquil roost sites, and as the days get shorter and inclement weather increases they begin to leave these areas and head for the wintering areas. Autumn migration generally occurs in waves, so that during certain days or a particular week a major percentage of the population moves on, while during the rest of the season they migrate in smaller flocks. Weather is the key factor and each year migration happens differently, with one or two main waves.

When they reach the Pyrenees, they usually cross the mountains into Navarra, although a small proportion enters by Irún and also, in lower numbers, into Huesca, as well as via Andorra and Perpignan, when they are coming from central France or The Camargue.

Those that enter through the Basque Country usually continue along the old Castilian route, which crosses Palencia (La Nava lagoon), heading for the dehesas and wetlands of

Salamanca and Zamora, while those that enter through Navarra and Huesca generally head for Gallocanta lagoon, to stop for a few days, but sometimes they may be delayed if the wind is unfavourable. They continue their journey to the south of the Sistema Central mountains, the great majority moving to the south-west and south of Iberia.

The majority of those that enter via the Andorran or Catalan Pyrenees also head for Gallocanta lagoon, though a small proportion continues down the east coast, leaving a few wintering birds at El Hondo reservoir, heading for north Africa, towards Algeria. Others migrate over the Balearic Islands, flying over the sea. They probably come from northern Italy or The Camargue, and although some birds may winter in Majorca, the majority of them continue to northern Africa.

Although the bulk of autumn migration occurs through the centre of Europe, principally through Germany and France, nevertheless the Baltic-Hungarian route is gaining in importance for the number of birds that are using this route, which is increasing each year. This route has its focal point in Hortobagy National Park, Hungary, where the birds spend weeks before setting off again. This location is becoming the destination for a good proportion of the Baltic cranes which migrate to the Iberian Peninsula and also for those that migrate to north-eastern Africa, to the detriment of the eastern route, via the Black Sea and the Middle East, as each year more travel along this route.

The meeting of birds of both routes could mean that they mix and that some may take the other route and spend the winter in Ethiopia or in the Iberian Peninsula alternatively. This phenomenon not only occurs with young and inexperienced birds, but also it may happen with some pairs (Ojaste 2023).

This change in pattern not only attracts Baltic birds, but also Scandinavian, Polish and German birds, so we could see a significant change in the migratory pattern of European cranes.



Map nº 3: Autumn migration through Spain

On the other hand, spring migration is much faster, as adults are in a hurry to arrive at their breeding areas, so it usually lasts just a month, between the middle of February and the start of April; the bulk of migration taking place in the last week of February. They leave the wintering areas mid-morning, when thermal air currents form, and migrate determinedly with short breaks. Extremenian cranes usually have a break at Valdecañas reservoir (Cáceres) if they are coming from the most westerly areas, while those from the Central Zone usually stop at Buendía Reservoir (Guadalajara/Cuenca). For the next break, they will arrive at Gallocanta Lagoon (Teruel/Zaragoza), where the majority of adults will set off again the next morning, and, depending on the wind, they will cross the Pyrenees from Navarra or will make another stop at Sotenera Reservoir (Huesca). If they cross they will continue to the centre of France, taking another break in the centre of the country before arriving at Lac du Der (Chantecoq). Once here, and after another stop (which may be for a few days) they head through Belgium, Luxembourg and the Netherlands, making for northern Germany, where they may stay a few days or weeks before returning to their breeding areas during March, while the Baltic and Scandinavian birds don't arrive until the end of March or early April.

At Sotenera (Huesca), if wind conditions allow it, cranes cross the mountain range through Huesca's valleys or even from Navarra's; sometimes the wind pushes them further east and they go through Catalanian valleys, especially those in Lleida, although many also go through Gerona's valleys. Many of them also come from Gallocanta, pushed by El Cierzo (strong north-west wind). They then go on to the Camargue, from where they may go north (Lac du Der) or via the Jura to Austria, or even take the route to the south of the Alps and make for Hortobagy from northern Italy.

The return routes are usually the same as the southbound ones, although routes to the north of the Alps from France to Hortobagy have been documented. Thanks to birds carrying GPS/GSM transmitters, some Lithuanian families are being tracked (Perzhu, 2018, *pers.com.*) as well as Estonians (Ojaste *pers.com.*), which take the route to the south of the Alps in autumn then return by the French route, although some of them, particularly young birds, take the autumn route without hesitating to fly over the sea. Some birds even make a loop on migration, when in autumn they go south on the Hungarian route to northern Africa then return through central Europe, as Vilja did in 2018 (Ojaste *pers.com.*).



Map nº 4: Spring migration through Spain

The beginning of spring migration means the end of family ties. Families may separate in the days or weeks before the end of their winter stay, though many continue during migration and break up at migration resting zones such as Gallocanta lagoon or others. Generally, the adults arrive at their breeding areas alone, and the youngsters delay and form flocks, in which there may be injured or non-breeding adults, and they begin the return journey without any haste. Although they may arrive near their natal areas, they certainly tend to stay in favourable areas, such as Hortobagy National Park, Hungary, where they may remain all summer, which is being observed in Estonian birds (carrying GPS transmitters). Other Baltic birds probably do this too, being able to return to their birthplaces during the summer and return, during the summer, to Hortobagy, where they will stay until the autumn migration begins and takes them to their wintering quarters.

The youngsters, as inexperienced birds, may stray in this stage and wander in search of other birds or suitable areas; it is not uncommon for some to appear in unusual places for the species.

In March 2020, a young Finnish bird appeared in Zeluán, Asturias, where it stayed for a few days, probably beginning its migration following the coast of The Bay of Biscay and heading north to Yaxham, England (where there is a small, recently re-introduced population) in June 2021. Its last observation was on 28/01/22 at Repps, then it was recorded at Prung, central France, on 21/12/22, and on 25/02/23 it was found at Ostereistedt, Germany.



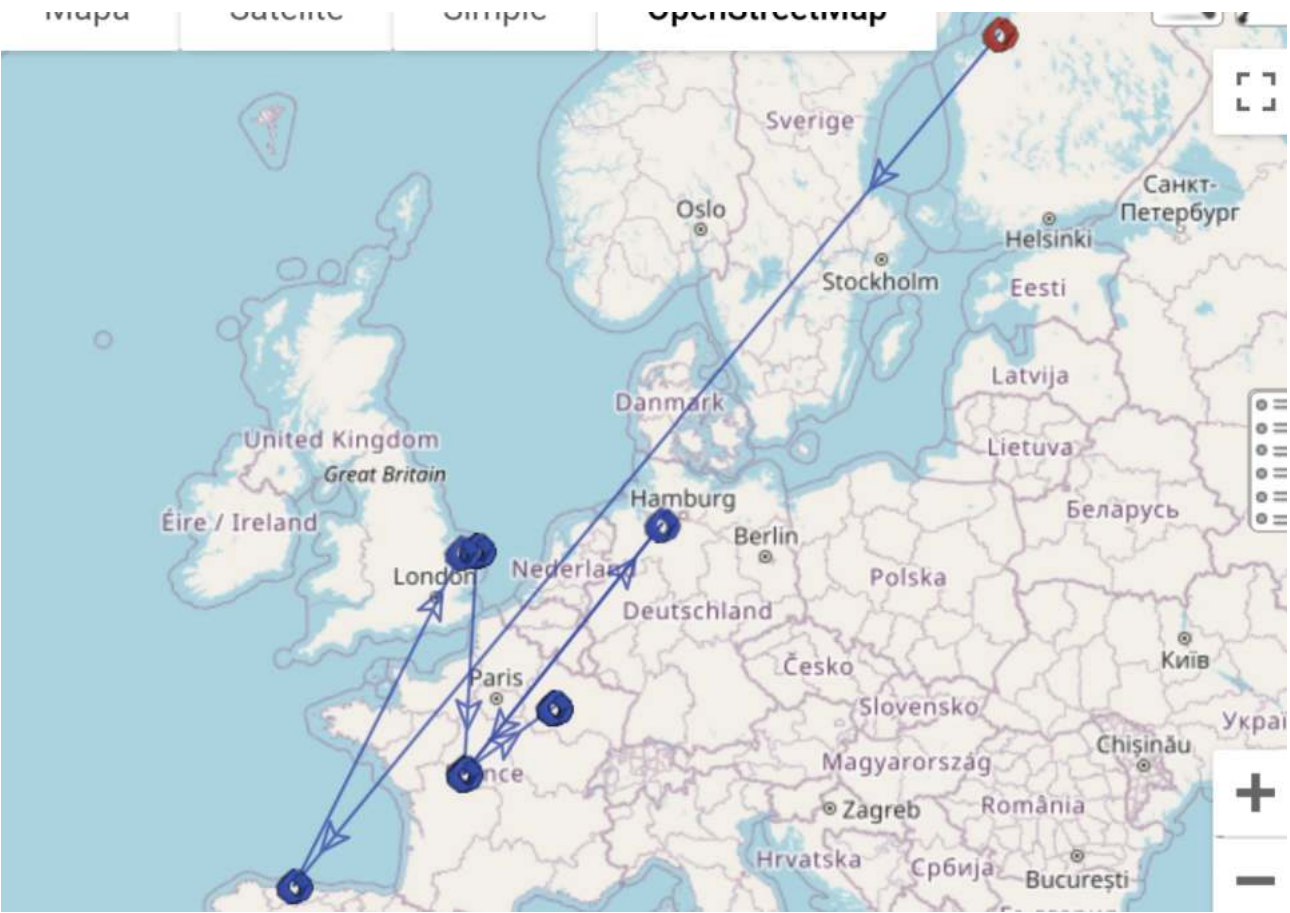
Image nº 2: Young crane at Zeluán (AS). Photo: Alicia Polledo



Image nº 3: The same crane at Yaxham (UK), on 21/06/21. Photo on iCORA



Image n° 4: The same bird at Der reservoir. Photo: K. Kùpprt. Source: iCORA



Map n° 5: Finnish crane observations. Source: iCORA

WINTERING

The wintering cranes of the western population are distributed mostly through north African countries, such as Tunisia, Morocco and Algeria (we do not know if any go to Libya), the Iberian Peninsula (Spain and Portugal) and also in France, Germany, Poland.

The Moroccan population is estimated at around 1,000 individuals (Thevenot & Salvi). Counts done by the Migres Foundation in recent years, except those of the pandemic, have confirmed this figure, although in January 2018 they counted 1,875 (Onrubia *et al*). Regarding the size of the wintering populations in Tunisia and Algeria, there is little recent information. Tunisia could have between 3,500 and 9,000 individuals (Amari & Zafzaf 2013) and the Algerian population could be estimated as at least 3,770 individuals (Hand & Charfi-Cheikhouha 2011).

58% of the wintering population is currently concentrated in the Iberian Peninsula, with 265,000 birds in Spain (55%) (Román 2022) and 14,327 in Portugal (3%) (Cruz pers.comm.), followed by the French population, for which the last census counted 176,620 cranes (37%) (Deschatres *et al* 2022). For a few decades now the wintering population in Germany has been increasing and is estimated as at least 20,000 birds (4%), and recently birds have also been staying in Poland, with 6,578 (1.3%) in December 2021 and 123 in January 2022 (Broniarek). 250 birds also stayed in Belgium during December, originating from the German population.

Looking at these data, we can say that in the last year the European wintering population during December 2021 was 482,525 cranes.



Image nº 5: Cranes in Extremaduran dehesa. Photo: José A. Román

POST-BREEDING MIGRATION

Summer and first arrivals

To indicate the different provinces and countries, we use the following abbreviations:

Provinces: LU: Lugo, C: Coruña, OU: Ourense, PO: Pontevedra, AS: Asturias, CT: Cantabria, NA: Navarra, LR: La Rioja, G: Gipuzkoa, AR: Araba, BI: Bizkaia; GI: Girona, B: Barcelona, LL: Lleida, T: Tarragona, Z: Zaragoza, HU: Huesca, TE: Teruel, V: Valencia, CS: Castellón, A: Alacant, MU: Murcia; IB: Balearic Islands, BU: Burgos, P: Palencia VA: Valladolid; LE: León; ZA: Zamora, SA: Salamanca, AV: Ávila, SO: Soria; SG: Segovia, M: Madrid, CU: Cuenca, AB: Albacete, GU: Guadalajara, TO: Toledo, CR: Ciudad Real, CC: Cáceres, BA: Badajoz, CO: Córdoba, SE: Sevilla, H: Huelva, CA: Cádiz, MA: Málaga, AL: Almería, GR: Granada; J: Jaén; IC: Canary Islands.

Countries: Portugal (PT) France (FR) Italy (IT) Germany (GE) Hungary (HU) Israel (IS) Sweden (SE) Poland (PL), United Kingdom (UK).

With migration over, the presence of cranes, especially juveniles, was observed during April, May and June at various points of across Spain, in provinces such as Bizkaia (Biscay: Munguía), Navarra (La Zolina reservoir), Huesca (La Peña and Sotonera reservoirs), Cuenca (Buendía reservoir), Ciudad Real (Tablas de Daimiel National Park), Badajoz (Gargáligas and Casas de Don Antonio). Up to 14 individuals were at Gallocanta lagoon in May, and 9 in June.

Finally, only 9 individuals actually spent the summer: 1 at Cospeito lagoon (LU); 3 at Gallocanto lagoon (Z/TE), 1 in Castile-y-León which moved between the localities of Villafáfila (ZA), El Hoyo lagoon, El Oso (AV) and Riobos weir (SA), depending on these wetlands drying out and recovering their water levels; 2 in Castile – La Mancha, at Buendía reservoir (GU) and at Ventas de San Julián (TO); 1 in Madrid region, at Santillana reservoir, and which was probably also seen at El Pardo reservoir; and 1 at Gargáligas reservoir (BA).

-30/06/23: 1 at Villafáfila nature reserve (ZA) Marta Losada, Marga Arias, Gary Losada, being observed again on 15/07/23, 20/07/23 (Miguel Folgado, Alfonso Rodrigo, Ricardo Rodríguez) and 28/07/23 (Gary Losada, Verónica Suárez).

-09/07/23: 1 at Cospeito-Casque lagoon (LU) Manuel Pérez, Ana Rivas, Saúl Román, Daniel Calleja, Manuel Pérez; 06/08/23 José L. González, 22/08/23 and 26/09 (Manuel Pérez)

-10/07/23: 2 at Gallocanta lagoon, Bello (TE) Antonio Torrijo, Felipe Rosado.

-31/07/23: 1 at Santillana reservoir (M) Christophe Pontegnie; also 02/08/23 (Robert Wilson) and 23/09 (Jorge García)



Image nº 6: Crane at Cospeito lagoon (LU), 09/07/23, Photo: José L. García

-03/08/23: 1 at Riobos weir (SA) Miguel Martín.

-05/08/23: 3 at Las Cuerlas, Gallocanta lagoon (Z) Carmina Franco; 1 at Las Ventas de San Julián (TO) M^a José M. Cenamor; José L. Machuca.

-08/08/23: 1 at El Hoyo lagoon, El Oso (AV) Jorge Leonor and 12/08/23 (Arón Blázquez),

-24/08/23: 1 at Buendía reservoir (GU) Ángel Velía, Ricardo Rodríguez, Sofía García, and still present 10/09 (Miguel Martínez).

-25/08/23: 1 at Santillana reservoir (M) Enrique Arguibay, Robert Wilson





Image nº 7: Cranes in Villafáfila nature reserve (ZA), 28/07/23. Photo: Gary Losada



Image nº 8: Cranes in Las Cuerlas (Z), 05/08/23. Photo: Carmina Franco

-02/09/23: 1 at Buendía reservoir (GU) Ricardo Rodriguez; 1 at Villafáfila nature reserve (ZA) Carlos Díez, Miguel Díez, also on 05/09/23 (Verónica Suárez).



Image nº 9: Crane at Buendía reservoir (GU), 02/09/23. Photo: Ricardo Rodriguez



Image nº 10: Crane at Villafáfila nature reserve (ZA), 02/09/23. Photo: Miguel Díez

-05/09/23: 1 at Santillana reservoir (M) Luis Carretero.

-09/09/23: 3 at Gallocanta lagoon (Z) Pilar Edo, birds which were seen again on 17th (Felipe Rosado), 18th (Gonzalo Peña), 24th (Ignacio Alonso) and 26th (Antonio Torrijo, Francisco J. Sampietro).

-13/09/23: 1 at El Hoyo lagoon (AV) Alfonso García.

-14/09/23: 1 in rice fields at Tauste (Z) Jorge Franco.



Image nº: Crane at El Hoyo lagoon (AV). Photo: Directo Natura





Map nº 6: Cranes in Spain during the summer



On 3 September, a pair of demoiselle cranes (*Grus virgo*) was seen at Villaviciosa, Asturias, by Juan Carlos Pereira.

These birds lacked rings, which would have indicated a captive origin, but in all probability they would have escaped from a private collection that didn't have marked birds, as the nearest wild populations are found to the east of the Caspian Sea, in Kazakhstan.



Image nº 12: Demoiselle cranes at Villaviciosa (AS). Photo: Juan C. Pereira

-First arrivals:

The first flocks were detected in Spain in the middle of September:

-12/09/23: 37 over Pla dels Socs, Salt (GI) Joma Blair.

-13/09/23: 1 at El Hoyo lagoon (AV) Luis J. Martín, where it was seen again on the 14th (César S. Segundo), probably the same bird that was moving between Villafáfila nature reserve and this lagoon during the summer, and here again on the 22nd (Arón Blázquez), 23rd (Alfonso García), 24th (Arón Blázquez, Joaquín Mayo) and 26th (Jorge Leonor, José M^a García, Iggy Skunk, Andrew Barski).

-14/09/23: 1 in rice fields at Tauste (Z) Jorge Franco, and again on the 19th (Thomas Rickfelder), 22nd (Jorge Franco) and 23rd (Diego Uche, Lucía García).

-16/09/23: 13 flying over Saucedilla (CC) Amparo Piz; 2 at Acehúche (CC) Manuela Rodríguez. The crane remains at Caque lagoon (LU) Juan Toni, Germán Torres, Luis Santos, again on the 19th (Francisco J. García) and 20th (Manuel Pérez).

-17/09/23: 50 circling over Urnieta (G) Imanol Errazkin; 1 at Gargáligas reservoir (BA), probably a summering bird, Seppo Hjerppe (14/06/23 one was present at this reservoir).

-18/09/23: 6 over Don Benito (BA) Encarnación Baez; 1 over Quintanilla del Agua (BU) Manuel Mata.

-19/09/23: 9 over Alcañiz (TE) Conchi Esteban.

-30/09/23: 15 over Toledo at 19:00h, Joaquín Martí; 30 over Lekeitio (BI)

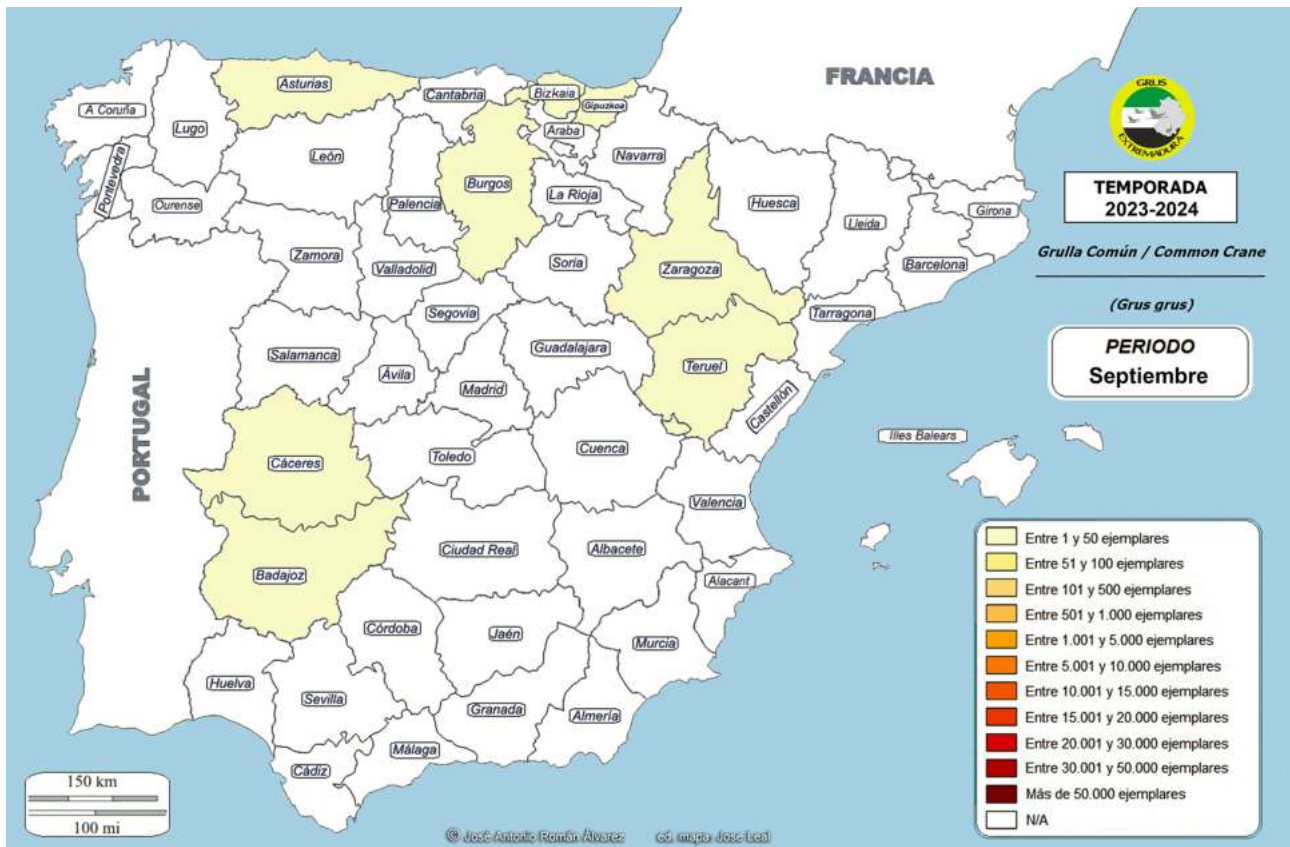
-01/10/23: 6 at Valdecaballeros (BA) José M^a Traverso.



Image nº 13: Crane in rice fields at Tauste (Z), 23/09/23. Photo: Diego Uche



Image nº 14: Crane at El Hoyo lagoon (AV) 23/09/23. Photo: Directo Natura



Map nº 7: First arrivals between September and first days of October

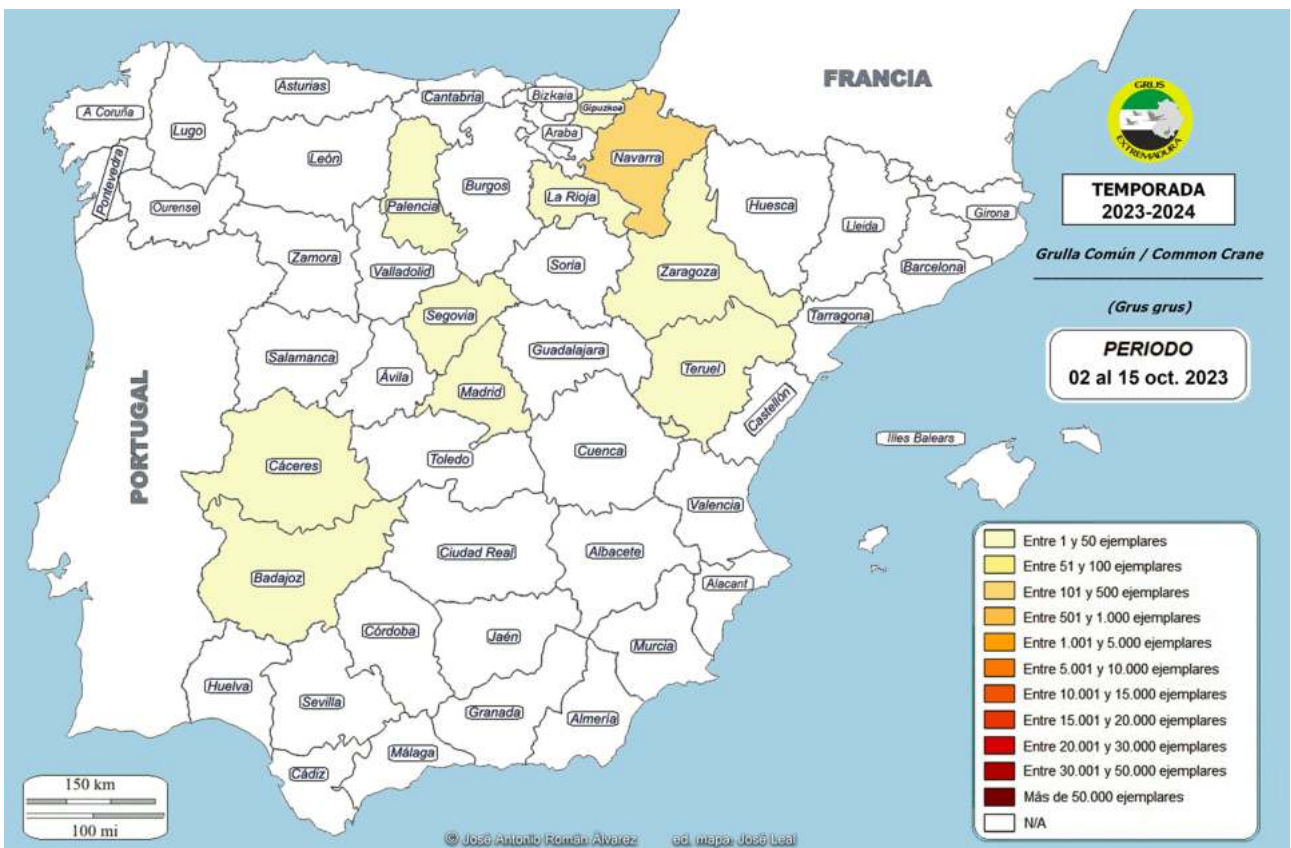
Migration has started in the north and centre of Europe, but the first individuals don't begin to arrive (in Iberia) until the middle of October.

- 11/10/23: 50 over Cedillo de la Torre (SG) Chemi Ibáñez.
- 12/10/23: 12 over Villamorco (P) Carlos González; 1 over Villar del Olmo (M) Juan C. del Moral; 8 over Almendralejo (BA) Francisco Macias, Francisco Bernáldez.
- 13/10/23: 100 over Lezoain (NA) José Cenborain.
- 14/10/23: 3 over Pamplona (NA) Rajen Ayerra; 6 at Carmonilla reservoir, Torrecillas de la Tiesa (CC) Jesús Porras.
1 demoiselle crane (*Anthropoides virgo*) at Morantes reservoir (BA), probably an escape from captivity, José L. Vinagre.
- 15/10/23: 23 over Pamplona (NA) Rajen Ayerra; 4 over Tarazona (Z) and 35 over Malón (Z) Wouter Gouweloose; ; 1 at de Leiva reservoir (LR) Jesús Serradilla; 3 over Txingudi (G) Francisco J. Esparcia; 17 arrived at Gallocanta lagoon (Z/TE) Antonio Torrijo.

Migration is also observed along the Pyrenean border: 75 over Lindus (FR) Gonzalo Amets; 70 over Organbideska (FR) Adam Wentworth et al.



Image nº 15: Demoiselle crane at Morantes reservoir. Photo: José L. Vinagre



Map nº 8: Migration between 2 to 15 October

A week with little migration, in which just a few hundreds of birds arrived in the Iberian Peninsula.

-16/10/23: 140 roosted at Gallocanta lagoon (Z/TE) Javier Mañas; at 13:30h only 40 remained; 152 over the Sierra de Cameros (GU) Uge Fuertes; 35 over Alfaro (LR) Miguel Martínez; heard at Marchamalo (GU) DALMA; in the evening 157 roosted at La Reguera (Z), Gallocanta lagoon, María Berna; 1 at Pitillas lagoon (NA) Wouter Gouweloose; 30 at La Zolina reservoir (NA) Haritz Sarasa; heard over Torrellas (Z) Andrés; 6 at Grande lagoon, Villafranca de los Caballeros (TO) M^a José Valencia; 47 between the Sierras Pardas and Santa Cruz (Z) Gonzalo Peña; 7 over Santovenia de Pisuergra (VA) Sergio Ávila.



Image nº 16: Cranes at Gallocanta (Z/TE) Photo: María Berna

-17/10/23: 88 over Alfaro (LR) Belén Hernández, at 11:30h; 400 at Gallocanta lagoon (Z/TE) Javier Sanz; 13 over Gerindote (TO) Juan Fernández-Elipe; the crane is still at Casque lagoon (LU) Antón Patrejo; as is the one at El Hoyo lagoon (AV) Jorge Leonor; 18 over Alto de Aibar (NA) Jon Sola; 30 over San Román de los Montes (TO) José M. Blanco (ARDEIDAS); 15 over Mendexa (BI) Bittor Mutiozabal; 70 over Urdaibai (BI) where 4 stay to roost, Urdaibai Bird Centre; 100 over Ribarredonda (GU) Rodri G. Vegas; 5 at Villafáfila nature reserve (ZA) Antonio Rodrigo; 10 over Villaviciosa estuary (AS) Diego Salido.

35 over Lizarreta pass (FR) Etienne Rogeau et al.



Image nº 17: Cranes at night at Urdaibai Bird Centre. Photo: Urdaibai photo cameras

-18/10/23: At 08:05h the cranes leave Urdaibai (BI); 170 at dawn at Gallocanta lagoon (Z/TE) Antonio Torrijo; 3 over Oropesa (TO) Fernando Cámara (ARDEIDAS); 15+60 over Cuenca, Javier García; 13 at Riolobos weir (SA) Josemi; 4 at Honda lagoon (GU) Antonio Torrijo; 12 arrive at Borbollón reservoir (CC) Miguel Todón; 11 at Santa Teresa reservoir (SA) Alicia, Rubén; 12 over Salburua (AR) Luis Felipe; 49 over Urdaibai (BI) Carmelo de Dios; 6 at Olivares de Júcar (CU) Nelson Mesonero, 211 roost at Gallocanta lagoon (Z/TE) Antonio Torrijo; 8 at Leiva (LR) Carmelo García; 18 over Zarauztz (G) Alexander Carriel.
-19/10/23: 13 at Sotos de Alfaro (LR) Eugenio Montelio; 314 are censused at Gallocanta lagoon (Z/TE) S.A.R.G.A.; 36 over Santa Teresa reservoir (SA) Maite.



Image nº 18: Cranes at Sotos de Alfaro (LR). Photo: Eugenio Montelio



Image nº 19: Group at Leiva reservoir (LR). Photo: Carmelo García

-20/10/23: 9 over Plasencia (CC) Javier Prieta; 11 at Pitillas lagoon (NA) Víctor Coello; 39 at Navalvillar de Pela (BA) Ángel López; 1 at Salburua (AR) Ángel Martín; 3 over Casas de Don Gómez (CC) José L. Vázquez .

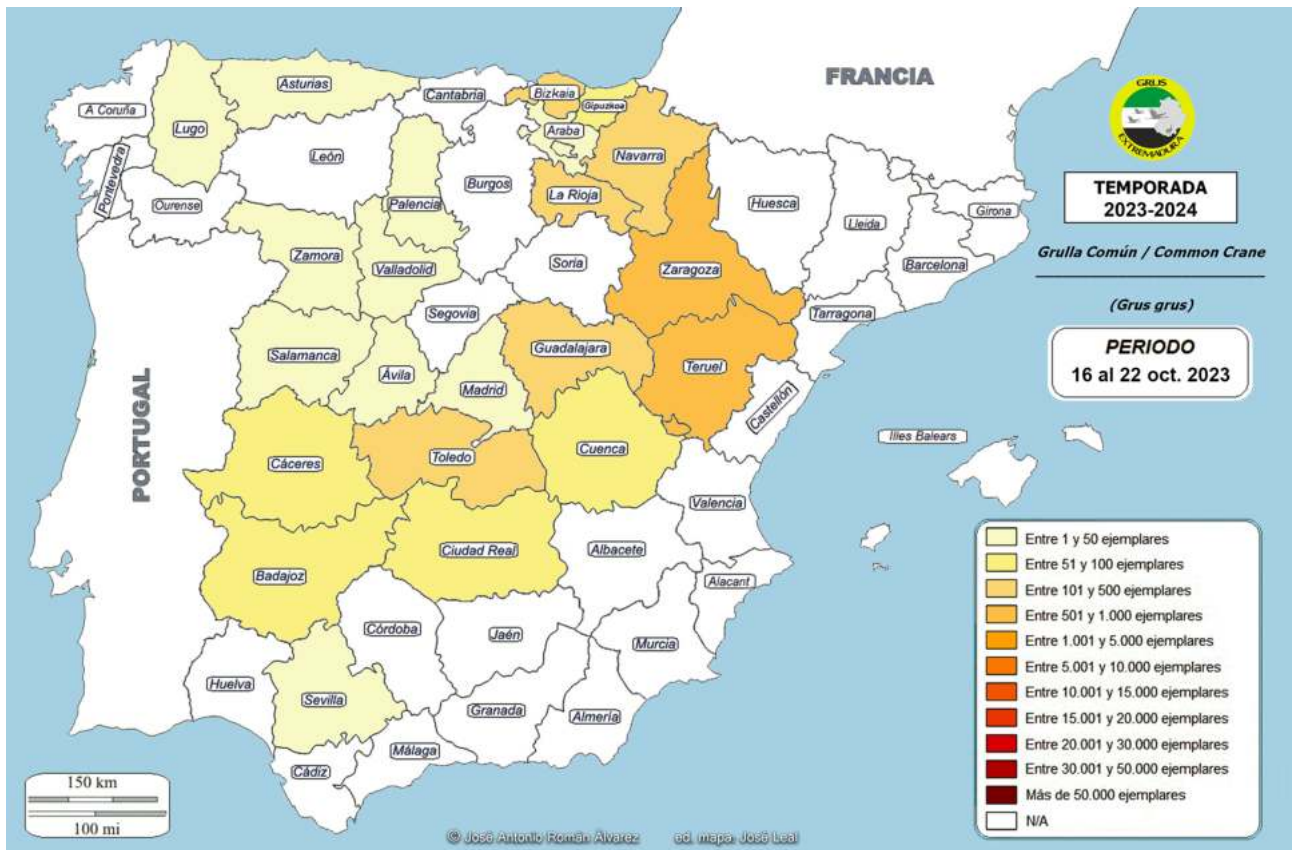
20,560 are censused at Lac du Der (FR) LPO Champagne-Ardenne.

-21/10/23: 21 at dawn at Borbollón reservoir (CC) Miguel Todón; 11 over Montijo (BA) Arturo Pérez; 1 at Alcollarín reservoir (CC) José I. Gómez; 5 at Los Serones reservoir (AV) Miguel A. García; 9 at Los Canchales reservoir (BA) J. Alfonso López; 158 over Pamplona (NA) Rajen Ayerra; 9 over Don Álvaro (BA) Francisco Macias; 3 over Montehermoso (CC) César Clemente; 1 at Salburua (AR) Beñat Guevara; 10 over Arrocampo reservoir (CC) Amparo Piz; 3 over Mesillas (CC) Ángel L. Méndez, Antonio Méndez; 2 over Alcázar de S. Juan (CR) Gabi Martín; 18 at Tablas de Daimiel national park (CR) Glen Abbott; 45 over Madrid, Jorge Crespo; heard at Camino de Villafranca lagoon (CR) Chemi Ibáñez.

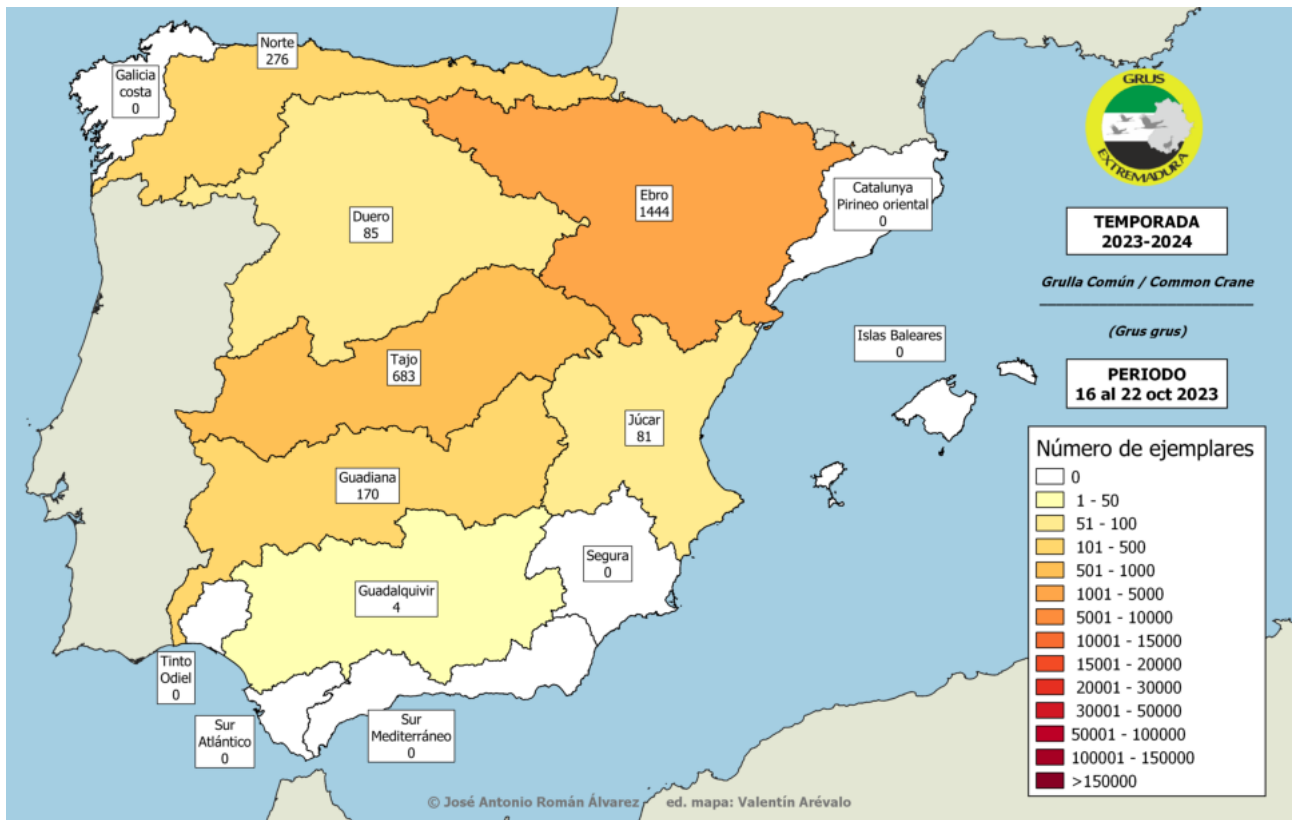
-22/10/23: 124 roosted at El Taray lagoon (TO) Ángel Velasco (SEO-Toledo); 720 at Gallocanta lagoon (Z/TE) Antonio Torrijo; 40 over Albarreal de Tajo (TO) Carlos Paulos (DALMA); 16 arrive at Moheda Alta, Navalvillar de Pela (BA) Ángel López; 5 over Alcoba (CR) Gonzalo Núñez-Lagos; 81 at Tablas de Daimiel national park (CR) Andrés Pinedo; 2 at Dos Reinos lagoon (NA) Diego Uche; 2 over Llanos de Cáceres (CC) Raúl Granados; 6 over La Pueblanueva (TO) Pedro Vázquez; 6 at El Hoyo lagoon (AV) José M. García; 3 at Santa Teresa reservoir (SA) Miguel R. Esteban; 100 over Elurretxe (G) Carlos Monzón; 3 at Santa Teresa reservoir (SA) Miguel Rouco, Miguel Rodríguez; heard at Villar del Rey (BA) J. Carreira; 4 at Dehesa de Abajo (SE) .



Image nº 20: Crane over Mesillas (CC). Photo: Ángel L. Méndez



Map nº 9: Provincial migration between October 16 and 22



Map nº 10: Migration by catchment areas between October 16 and 22

The migratory trend of few arrivals continues in the Peninsula, although the numbers increase in central Europe and Hungary, and several thousand begin to move from Germany to north-eastern France.

-23/10/23: 12 over Alqueza (HU) Jay Hassell; 130 at La Zolina reservoir (NA) Raúl Pascual; 1 over Sotos de Alfaro (LR) Jesús Ucha; 50 over Valencia de Alcántara (CC) migrating towards Portugal, Jesús Valiente; 17 at Riolobos weir (SA) Gonzalo Criado: 9 at El Hoyo lagoon (AV) César San Segundo.

-24/10/23: 4 at Capdesaso (HU) Eduardo Gracia; 50 at Rosarito reservoir (TO) Dave Langlois; 2 at Madrigalejo quarry (CC) and 9 at Pizarroso stream (CC) Seppo Hjerppe; 10 at El Taray lagoon (TO) Pedro Bustamante; 26 over Corella (NA) Samuel Auni6n; 27 at Obando (BA) Michel Viskens.



Image n° 21: Cranes at El Hoyo lagoon (AV). Photo: Directo Natura

-25/10/23: 438 at Gallocanta lagoon (Z/TE) Antonio Torrijo; 52 over Alfaro (LR) Bel6n Hern6ndez; 118 over Cervera del R6o Alhama (LR) Roberto Vega; 1 juvenile at Alca6iz saline lagoons (TE) Felipe Rosado; 1 at La Loteta reservoir (Z) Thomas Rickfelder; 5 at Villaf6fila nature reserve (ZA) Ana L6pez; 5 at Valdecaballeros (BA) Jos6 M^a Traverso; 4 at La Atalaya pool, Aldea del Cano (CC) Francisco Mart6n.

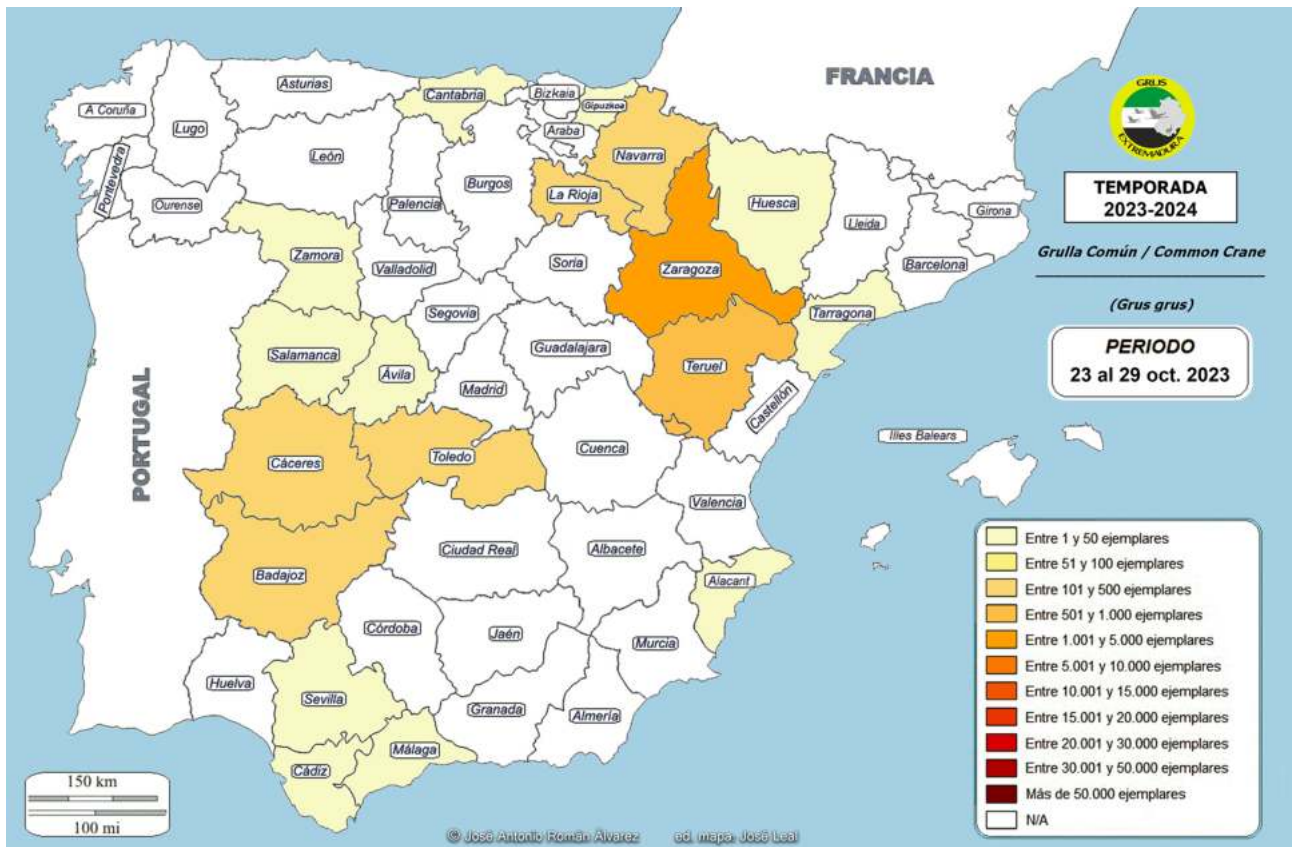
-26/10/23: 22 over Mondrag6n (G) Adri6n Ugalde; 26 at El Hoyo lagoon (AV) Ar6n Bl6zquez, V6ctor Coello; 2 at Pallar6n (HU) Ricardo Rodr6guez; 596 are censused at Gallocanta lagoon (Z/TE) S.A.R.G.A.

-27/10/23: 42 at Hu6laga (CC) Miguel Tod6n; 300 at Navalvillar de Pela (BA) Jos6 M^a Traverso, Mauro Rodriguez; 6 at Sotonera reservoir (HU) Francisco Quesada; 20 at Zarzalejos rice fields, Logros6n (CC) 6ngel L6pez; 1 Les Olles lagoon, Ebro Delta (T) Adrie; 26 roost at Borboll6n reservoir (CC) Miguel Tod6n; 26 go to roost at El Hoyo lagoon (AV) Jos6 M^a Garc6a; 2 in Do6ana National Park (SE) Fernando E. Navarro.

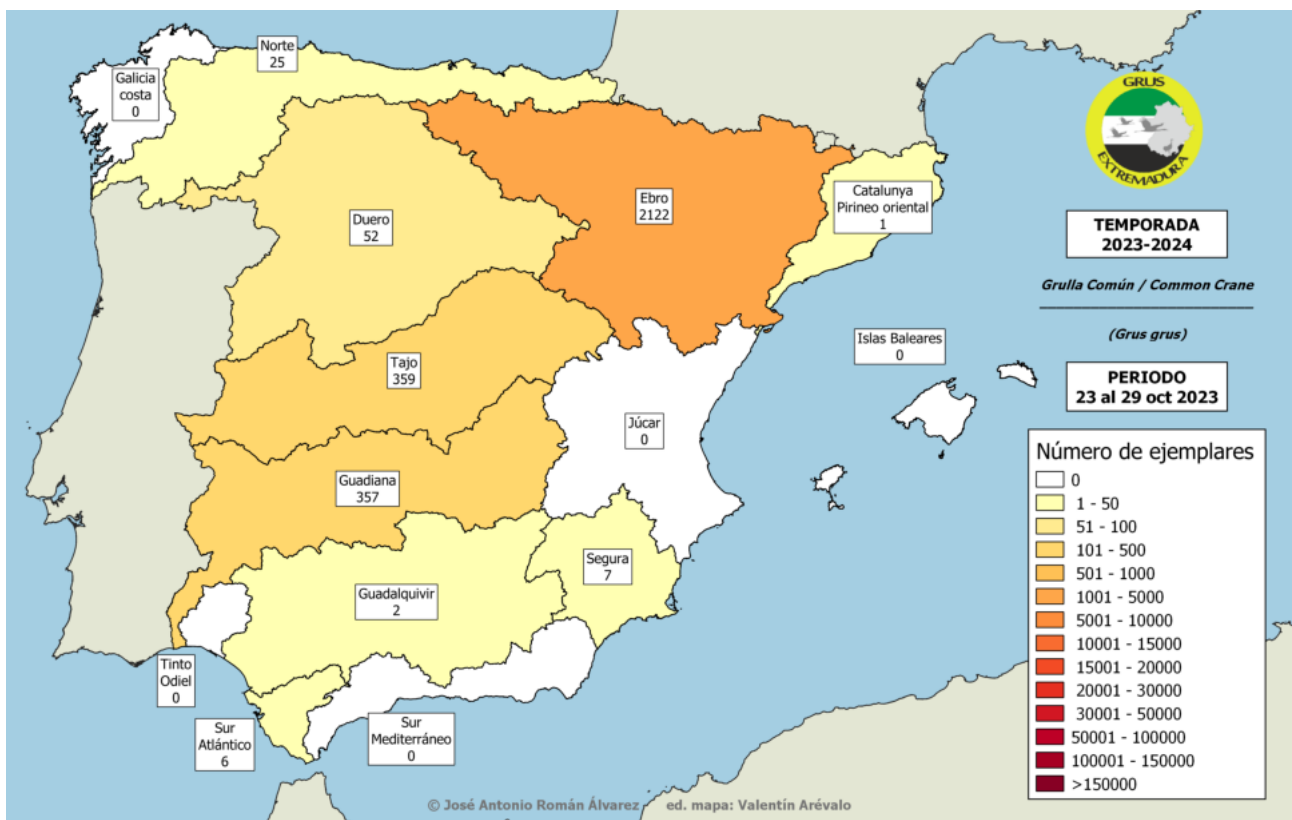


Image nº 22: Cranes at Huélaga (CC). Photo: Miguel Todón

-28/10/23: 24 at dawn at El Taray lagoon, Villacañas (TO) Ángel Velasco, SEO-Toledo; 3 over Gama (CT) Belén Hernando; heard at Artieda (HU) Javier López; 12 at Riobos weir (SA) Miguel Rodríguez, Antonio Ceballos; 7 at El Hondo reservoir (A) Spainbirdwatching; 6 at La Janda (CA) Fernando Portillo; 25 over Valdesequera (BA) towards Ougela (POR) Nacho Fernández; 1 at La Mueda reservoir (NA) Jorge Nubla
-29/10/23: 150 at dawn at Quero, Villafranca de los Caballeros (TO) Ángel Velasco; 1,500 at Gallocanta lagoon (Z/TE) Antonio Torrijo; 2 roost at El Hoyo lagoon (AV) although were there during the day, Arón Blázquez



Map nº 11: Provincial migration between October 23 and 29



Map nº 12: Migration by catchment areas between October 23 and 29

The slow arrival of cranes continued, while in Germany some 100,000 birds gathered, with 191,000 in Hortobágy (HU) and 7,575 in Warta National Park, Poland.

-30/10/23: 9 at Los Canchales reservoir (BA) Francisco Lopo; 8 at Santa Teresa reservoir (SA) Vega Bermejo, Víctor Coello; 8 over Trujillo (CC) Seppo Hjerppe; 813 at Gallocanta lagoon (Z/TE) Pilar Edo; 3 at La Janda (CA) Antonio J. Sepúlveda

-31/10/23: 24 over Castañar de Ibor (CC) Eva Garzón; 7 at Navalvillar de Pela (BA) Ángel López; 3 at Palazuelo (CC) Neil Renwick; 64 at Navaseca lagoon (CR) Pablo Varona; 34 over Sureste natural park (M) Octavio Infante; 38 over Carabanchel (M) Marcos Rodríguez; 79 at Villafáfila nature reserve (ZA) Juan J. González; 89 over Alcarria de Alcalá (M) Eugenio Castillejos; 2 at Boada de Campos lagoon (P) Héctor Ruíz; 35 at El Hoyo lagoon (AV) Arón Blázquez, José M^a García; 4 at Fuente de Piedra lagoon (MA) Antonio Tamayo; 17 over Talavera de la Reina (TO) Antonio Alía; heard at Los Blázquez (CO) Marga Martín; 25 over Ugena (TO) Conchita Torres; 19 over Borox (TO) Miguel García; 190 over Ilundáin (NA) Aitor Gil; 16 at Alcollarín reservoir (CC) Seppo Hjerppe.



Image nº 23: Cranes at Villafáfila (ZA). Photo: Juan J. González

-01/11/22: 100 roosted in Tablas de Daimiel National Park (CR) Jesús Porrero; 42 over Ordoyo (LR) Jorge Ezquerro; 8 at Granja de Torrehermosa (BA) Gus Gahete; 2 at La Sal lagoon, Villafranca de los Caballeros (TO) Carmen Comendador; 20 over Monfragüe National Park (CC) Eva Garzón; 104 at Manjavacas lagoon, Mota del Cuervo (CU) Fran Baena; 103 at Las Cuerlas (Z) Florián Oliver; 2 at Caño del Juncal, Doñana National Park (SE) Danielle Dessi, Adrián Fernández; 22 at Los Canchales reservoir (BA) José L. Bautista; 62 over Ugena (TO) Miguel García; another 50 there, Mercedes Panes; 2 at Puebla del Río (SE) Juan M. Jiménez; 50 over Bárdenas Reales (NA) Juan M. Pérez; 24 at Pitillas lagoon (NA) Mario de la Torre; 17 at El Hoyo lagoon (AV) Joaquín Mayo; 16 at

Rosarito reservoir (TO) Ana Salas *et al*; 18 over the River Mijares estuary (CS) José V. Martí; 4 over Rincón de Ballesteros (CC) Francis Martín; 24 at Pitillas lagoon (NA) Mario de la Torre; 46 at La Zolina reservoir (NA) Raúl Pascual; 10 at Boada de Campos lagoon (P) Héctor Ruíz.



Image nº 24: Flock of cranes over Ugena (TO). Photo: Miguel García.

-02/11/23: 4 over Artesa de Segre (LL) Joan Daranas; 207 are censused at Gallocanta lagoon (Z/TE) S.A.R.G.A; 4 at Peraleda de la Mata (CC) Vicente Risco; 3 at Arguedas (NA) Jorge Nubla.

-03/11/23: 18 over Almenara (CS) Alejandro Campos; 496 at Gallocanta lagoon (Z/TE), more than half arrived overnight, Antonio Torrijo; 8 in Doñana National Park (SE) Eva Garzón; 6 over Artieda (HU) Javier López; 1 at Castellò d'Empuries (GI); 33 at El Hoyo lagoon (AV) Jorge Leonor; 33 in Villafáfila nature reserve (ZA) Alfonso Rodrigo; 5 at La Loteta reservoir (Z) Javier Train; 1 in rice fields at Ejea de los Caballeros (Z) Esther Charles; 150 at Navalvillar de Pela (BA) Ángel López; 10 in Els Mors marsh (V) Andrés Balfagón, Joan Balfagón; 3 over the River Guadarrama, Collado Villalba (M) Ricardo Die; 17 over Gallur (Z) José M. Sánchez, Luis García; 10 over Cella (Z) Juan A. Beneito; 21 in ricefields at Valmuel (TE) Miguel A. Pardo; 8 at Aznalcázar (SE) José A. Sánchez; 40 over Sevilla, J. Daniel García.

-04/11/23: 10 at La Janda (CA) Esther Díaz; 5 at Fuente de Piedra (MA) Miguel Peinado; 70 at Cubilar reservoir, Logrosán (CC) M^a Jose M. Cenamor, José L. Machuca.

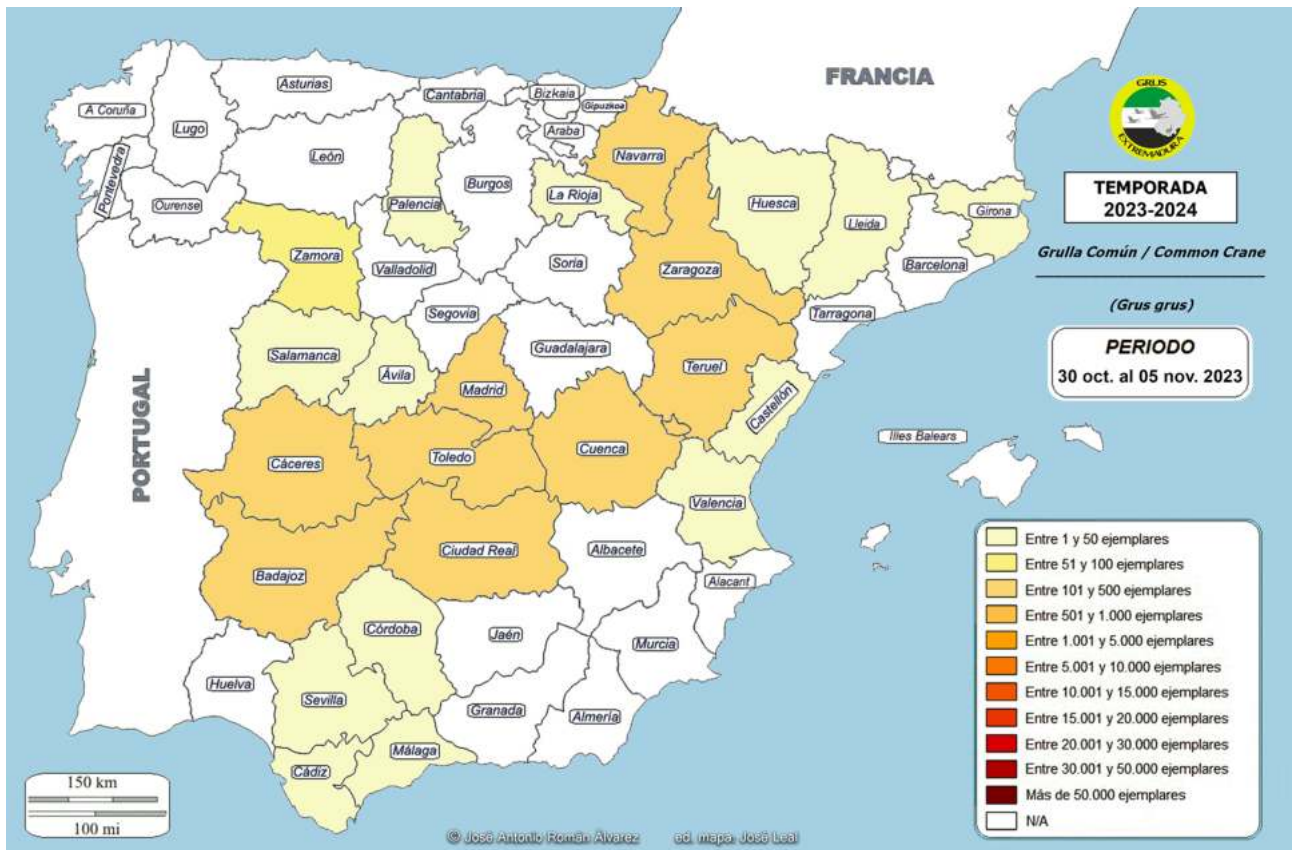
-05/11/23: 95 at Los Canchales reservoir (BA) José L. Bautista; 10 at La Bazagona (CC) Javier Prieta; 23 at pools at Miguel Esteban (TO) Jorge Crespo; 700 at Gallocanta lagoon (Z/TE) Antonio Torrijo; 3 at Navalespino reservoir (CO) Miguel Corvillo, Alejandro Montero; 38 roost at El Hoyo lagoon (AV) Arón Blázquez.



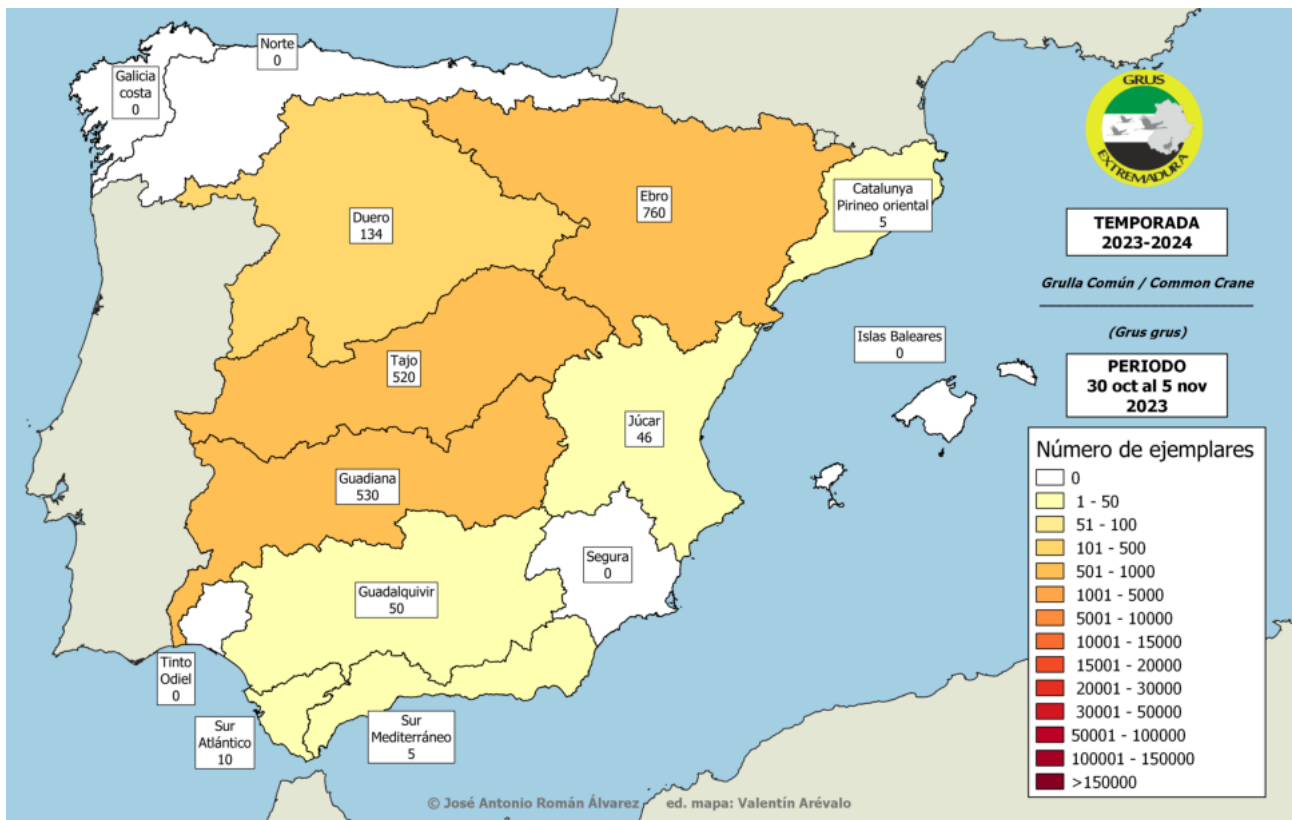
Image nº 25: Cranes at Arguedas (NA). Photo: Jorge Nubla



Image nº 26: Cranes at Valmuel rice fields (TE). Photo. Miguel A. Pardo.



Map nº 13: Provincial migration between October 30 and November 5



Map nº 14: Migration by catchment areas between October 30 and November 5

The week began with few cranes arriving, but as the week progressed migration intensity increased.

-06/11/23: 45 over Albentosa (TE) Andrés Balfagón, Joan Balfagón; 50 at Navaseca lagoon (CR) Julián Simón; 9 over Santa Teresa reservoir (SA) Miguel Rouco; 40 over Alfaro (LR) Miguel Martínez; 16 at La Janda (CA) José M. Lubián; 1 at Lagartera (TO) César Clemente; 34 at El Hoyo reservoir (AV) José M. García *et al*, a German wintering bird among them (AzAzR/BIAzBI) which was found at Gallocanta lagoon (Z/TE) the day before; 3 at Sotonera reservoir (HU) Esther Yera; 15 at Santa Teresa reservoir (SA) Fernando Aranguren; 12 over Sádaba (Z) Luis M. Muñoz; 15 in rice fields at Valmuel (TE) Miguel A. Pardo; 1 in Els Mors marsh (V) Joan Balfagón; 16 at Riobobos weir (SA) Guillermo Risco; 19 at Pueblonuevo de Miramontes (CC) Dave Langlois; 7 at Fuente de Piedra lagoon (MA) Tuula Miinalainen.

-07/11/23: 7 at El Romeral (TO) Óscar Frías; 42 at San Juan lagoon (M) Santiago Delgado; 1 at Soto de Mazaneque reservoir (M) Beatriz Cortés; 2 at Santillana reservoir (M) Eugenio Castillejos, David Hurtado, García de los Ríos; 4 at Carcaboso (CC) Hugo Sánchez; 13 at La Aldea del Obispo (CC) Neil Renwick; 24 over Logroño (LR) Óscar Gutiérrez; 203 in Tablas de Daimiel National Park (CR) Juan M. Sánchez, Carmen M. Ayuso; 50 arrive at Gallocanta lagoon (Z/TE) María Berna, Carmina Franco; 17 over Valmayor reservoir (M) David Fernández, Gonzalo Núñez, David Fernández; 5 in Alcañiz salt flats (TE) Juan L. Muñoz; 12 at Sotonera reservoir (HU) Esther Yera; 3 at Ivars lagoon (LL) Octavi Català, Sergi Sales; 1 at Amposta (T) Peter Heinrich; 2 at Castellflorite (HU) Alberto Gasquet.

-08/11/23: 67 arrive at Palancoso reservoir (CC) Vicente Risco; 700 at Gallocanta lagoon (Z/TE) Antonio Torrijo; 50 over Tarazona (Z) Esther Charles; 5 at Villar del Campo (SO) Juan L. Hernández; 7 at Vegas Altas (BA) Martin Kelsey; 16 circling over Guadalajara, Javi Calvo (DALMA); 54 arrive at Gallocanta lagoon (Z/TE) where 584 remain in the afternoon, Antonio Torrijo; 7 at Conquista del Guadiana (BA) Andrea García, Gerardo Pizarro; 108 over Das (GI) Ruben Lladós; 104 over Txingudi (G) Mikel Etxaniz; 91 over Alía (CC) Jorge Ángel; 4 at Fernando V (BA) Charles Farren; 100 over Camarma de Esteruelas (M) Óscar Oeo; 12 at Santillana reservoir (M) David Guillén; 50 over Diseminados (GU) Juan J. Iglesias; 7 at Cañizar lagoon (TE) Vicente Taunit; 24 over El Toro (CS) Eusebio García; 220 over Sarriguren (NA) Raúl Pascual; 70 over Alzuza (NA) Javier Sanz; 11 over Dueñas (P) Sergio Ávila; 15 in Villafáfila nature reserve (ZA) Bastián Sander; 31 at El Hoyo lagoon (AV) César San Segundo; 47 over Toledo M^a José Santero; 3 at Alange reservoir (BA) José A. Román; 10 at La Atalaya (CR) Mario Fernández; 80 at Manjavacas lagoon (CU) Andrés Pinedo; 37 at Ivars de Urgell lagoon (LL) Joan Rodríguez; 250 over Tierze (GU) DALMA; 8 in Doñana National Park (SE) Óscar Ro, Fernando del Valle, Paco Chiclana; 7 at Alcázar de San Juan (CR) Juanma Santana, Carla Culebras; 77 over Alfaro (LR) Íñigo Pérez



Image nº 27: Cranes over Toledo, Photo: María José Santero

-09/11/23: 3 over Zaragoza, Javier Domínguez; 39 over Caminreal (TE) Antonio Torrijo; 10 over Pozuelo de Aragón wind farm (Z) Esther Charles; 80 leave Gallocanta lagoon (Z/TE) at 10:58h towards Guadalajara, María Berna; 7 over Leganés (M) Alfredo Mirat; 30 over Sallent de Gállego (HU) Pablo Vallés; 11 at Dulce lagoon, Campillos (MA) Miguel Herrera; 17 over Grande lagoon, Villafranca de los Caballeros (TO) Carmen Comendador; 29 over Atalaya del Cañavate (CU) Alfonso Soler; 3 over Montijo reservoir (BA) José L. Bautista; 3 over Trujillo (CC) and 3 over Herguivuela de Santa Ana (CC) Seppo Hjerppe; 16 at La Cumbre (CC) Jesús Porras; 9 at Santa Marta de Magasca (CC) Fátima Romero; 15 over Coria (CC) Juan A. García; 30 at Peraleda de la Mata (CC) Vicente Risco; 50 over Coslada (M) Sara Navarro; 2 at Santillana reservoir (M) Rafa Al, Alfonso Moreno; 1,065 are censused at Gallocanta lagoon (Z/TE) S.A.R.G.A.; 58 over Loscos (TE) Marta Medrano; 11 over Sant Esteve de la Sarga (LL) Joan Rodríguez; 10 at Tito lagoon, San Clemente (CU) Andrés Pinedo; 17 over Torreblanca (CS) Radboud Schwarzenwalder; 26 over Hundido de Armallares (CU) Estanislao Sanz, Carmen Martín, José M^a de la Peña; 22 + 80 over Zaragoza, Enrique Pelayo, Daniel Lázaro; 38 over Épila (Z) Héctor Pinilla; 100 over Auritz-Burguete (NA) Jon Sola; 28 at Boada de Campos lagoon (P) David Wood; 10 at El Hondo lagoon (A) JuanMa Santana, Carla Culebras; 27 over Les Madrigueres (T) Ramón Ruiz; heard at Sabinas de Codes (GU) Jesús Serrano, Carmen Martín, Estanislao Saéz, José M^a de la Peña; migrating cranes arrive at 19:48h at Gallocanta lagoon (Z/TE) Javier Mañas.

-10/11/23: 86 at Ejea de los Caballeros (Z) Esther Yera; 2,000 at Gallocanta lagoon (Z/TE) which begin migration at 09:40h, Antonio Torrijo; 6 at Hoyo de la Cruz, Bujaraloz (Z) José L. Rivas; 45 over El Pardo (M) Marcos Escuredo (GOEP); 50 over Villar del Infantado (CU) Ángel Arellano; 14 arrive on migration at Gallocanta lagoon (Z/TE) at 14:15h, Carmina Franco; 2 at Beleña lagoon (GU) Fernando Canalejas (DALMA); 102 over Alboré/Sotonera (HU) Francisco Quesada; 100 at Manjavacas lagoon (CU) Luis Alberó; 5 over Alcobendas (M) Fran Gómez; 1 over Valdetorres de Jarama (M) Lawrence Reed; 200 over Lumpiaque (M) Héctor Pinilla; 10 in rice fields at Capdesaso (HU) Eduardo Gracia; 51 at Manjavacas

lagoon (CU) Belén Guerrero; 3 in rice fields at Riumors (GI) Bernat Garrigues; 3 at Hoya de la Yerba, Alcañiz (TE) Juan L. Muñoz, Esther Yera; 100 at Ejea de los Caballeros (Z) Jorge Franco; 12 over Arantza valley, Quintanilla del Agua (BU) Israel Yáñez; 4 over the River Arlanzón, Quintana del Puente (P) Jorge Crespo; 38 in Villafáfila nature reserve (ZA) Alfonso Rodrigo; 55 over Villar Del Olmo (M) Juan C. Del Moral; 50 at Camino lagoon, Villafranca (CR) Pablo Olivar, Raúl Marín; 19 at Tablillas del Zán cara (CR) José Fernández; 250 in Tablas de Daimiel National Park (CR) Peter Heinrich; 29 over Alía (CC) Jorge Ángel; 112 go to roost at El Hoyo lagoon (AV) Aron Blázquez, Chema García.



Image nº 28: Cranes at Dulce lagoon, Campillos (MA). Photo: Miguel Herrera

-11/11/23: 8 over Bonhabal stream, Almendralejo (BA) Pepe Elías; 15 have roosted at Peña Hueca lagoon (TO) and 350 at El Taray lagoon (TO) Ángel Velasco; 1,400 at Gallocanta lagoon (Z/TE) Antonio Torrijo; 14 at Lechago reservoir (TE) Rajen Ayerra, Antonio Torrijo; 15 at Boada de Campos lagoon (P) José A. Campos; 6 over Guadalajara, Carlos Arroyo (DALMA); 10 over Azuaga (BA) Alejandro Montero; 53 over Ugena (TO) José C. Biencinto; 27 at Santa Teresa reservoir (SA) Vega Bermejo; 1 in Puig marsh (V) Juan R. Villora; 14 in rice fields at Capdesaso (HU) Eduardo Gracia; 13 at El Hondo reservoir (A) Aleksandra Janiszwska, Mark Simmons; 1 in Els Moros marsh (V) Joan Balfagón, Andrés Balfagón; 6 over Vilanova i la Geltrú (B) Arnau Pedrocchi; 14 over Leganés (M) Paula González; 20 over Puig Parador, Castellet (B) Bernat Iglesias; 6 over Gallecs (B) Marta Pérez, José C. Rubia; 4 at Masegoso (SO) Juan L. Hernández; 11 at Chica lagoon, Villafranca (TO) Carmen Comendador; 1 over Monfragüe National Park (CC) Luis Alberó; 2 at Robledo reservoir (M) José M. Jiménez; 3 at La Fresnedilla pond, Oliva de Plasencia (CC) Vicente Torres; 38 at Fernando V (CC) Ángel L. Méndez; 40 at Los Canchales reservoir (BA) Jorge García; 30 at La Janda (CA) Faustino Chamizo; 7 over Pacs del Penedés (B) Xavier Riera; 2 at Las Merinillas, Valverde de Leganés (BA) José L. Vinagre; 12 leave El Hoyo de la Cruz, Bujaraloz, going south (Z) Conchi Esteban;

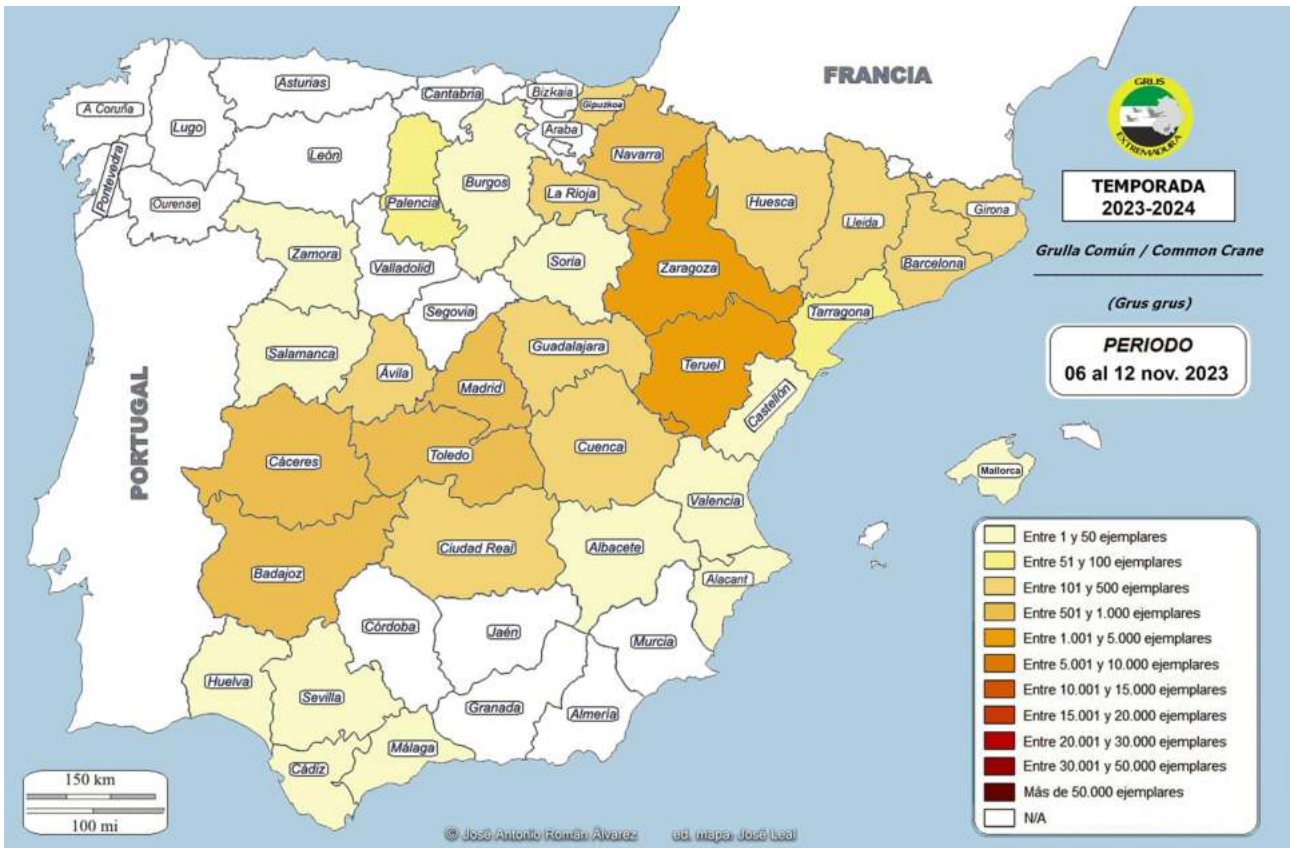
17 over Grande lagoon, Villafranca (TO) Carmen Comendador; 599 in the Central Zone of Extremadura (CC/BA) José A. Sánchez; 200 over Sant Martí d'Albars (B) Jordi Clavell; 3 at Castellò d'Empuries (GI) Galdric Plana; 6 at Deltebre (T) Joan Gimestells; 3 near Sant Pere Pescador (GI) Neus Diumenge; 25 over El Vendrell (T) Francesc Rivero; 1 over Santa Coloma de Queralt (T) Rafael Soriano; 6 over Malgrat de Mar (B) Guillem Saguer; flying at night, between 21:30h and 22:50h, over Solsona (LL) Eduard Marsinyach; 20 over Montcads i Reixach (B) Xavi Escobar; 67 at Grande lagoon, Quero (TO) M^a José Valencia; 2 at Salicor lagoon (CR) Pablo Olivares; 21 over Puebla de Don Rodrigo (CR) Raúl Marín; 35 over Astraín (NA) Erea Ardaiz, Erai Ardaiz, José Ardaiz; 200 over Donostia (G) Jon Mugic; 2 at Salobrar natural park, Mallorca (IB) Maties Rebassa; 213 over Cal Xico (LL) Jana Marco; heard at Piedrafita (HU) Pablo Monroy; 2 in Brazo del Este (SE) Pablo Barrena, Miguel Campos; 2 in Doñana National Park (SE) Judy Levings, Vicent Esteller; 1 at Villalba lagoon (BU) María Lobato, Diego Herraéz.

-12/11/23: 408 have roosted at El Taray lagoon, Villacañas (TO) Ángel Velasco; 1,314 at Gallocanta lagoon (Z/TE) Antonio Torrijo; 17 at Fuente de Piedra (MA) Javier Fregenal; 31 over El Carrascalejo (BA) Agapito J. Verde; 18 over La Alfranca, Pastriz (Z) José L. Rivas; 87 over Pina de Ebro (Z) Francisco Quesada; 16 over Mérida (BA) Ángel Sánchez; 6 at Hernán Cortés (BA) Julián Cendrero; 15 at Sotonera reservoir (HU) Silvia Duque; 80 over Alfaro (LR) Sofá Martínez; 27 over Valdecaballeros (BA) Chema Traverso; 3 at Castellò d'Empuries (GI) Andreu Dudau; 2 over Torroella de Montgrí (GI) Juanjo Ortega; 32 over Olot (GI) Oriol Fb; 2 over Cabanabona (LL) Israel Estopà; heard at L'Albufera (V) Manuel Peyro; 3 in Els Moros marsh (V) Juan R. Villena, Joan Balfagón; 2 in Almenara marsh (CS) Andrés Balfagón; 4 over Blau de Plegamans (B) Arnau Bonan; 35 over Bujaraloz (Z) Josep Crusafont; 48 at Sástago (Z) Andrés Berros, Adrián Suárez, Alberto Santiago; 38 over Portalet (HU) Juan C. Ascaso; 2 at Dos Reinos lagoon (NA) Héctor Bintanel; 43 at Ejea de los Caballeros (Z) Alfredo Sánchez; 1 over La Almunia de Doña Godina (Z) Javier Traín; 9 at Buendía reservoir (CU) Sofía García, Patricia Sánchez; 5 over Madrid, Arturo Jiménez; 30 over Arganda del Rey (M) Gustavo López; 12 over Fuenlabrada (M) Carla Herranz; 55 over Aranjuez (M) Miguel López; 178 at Tirez lagoon (TO) Borja de Madariaga, Joan A. Ximenis; 2 at Alcoba (CR) Fernando Rodríguez; 11 over Alcolea de Tajo (TO) César Clemente; 1 over Arrocampo reservoir (CC) Luis Albero; 20 at Oliva de Plasencia (CC) Vicente Torres; 70 at Vegas Altas (BA) David Lindo; 370 at Casar de Miajadas (CC) and 42 at Alcollarín (CC) Seppo Hjerppe; 9 over Montijo (BA) Arturo Pérez; 10 at Calzadilla de los Barros (BA) Francisco Macias; 12 at Riobobos weir (SA) José A. García; 12 at Pétrola (AB) Marcelo Quesada; 74 at La Loteta reservoir (Z) Luis Gracia; 20 over Talavera la Real (BA); 23 over Puente Ajuda (BA) Joaquín Mazón; 23 at Hito lagoon (CU) Gumer González; 232 over Villar del Olmo (M) Juan C. del Moral.

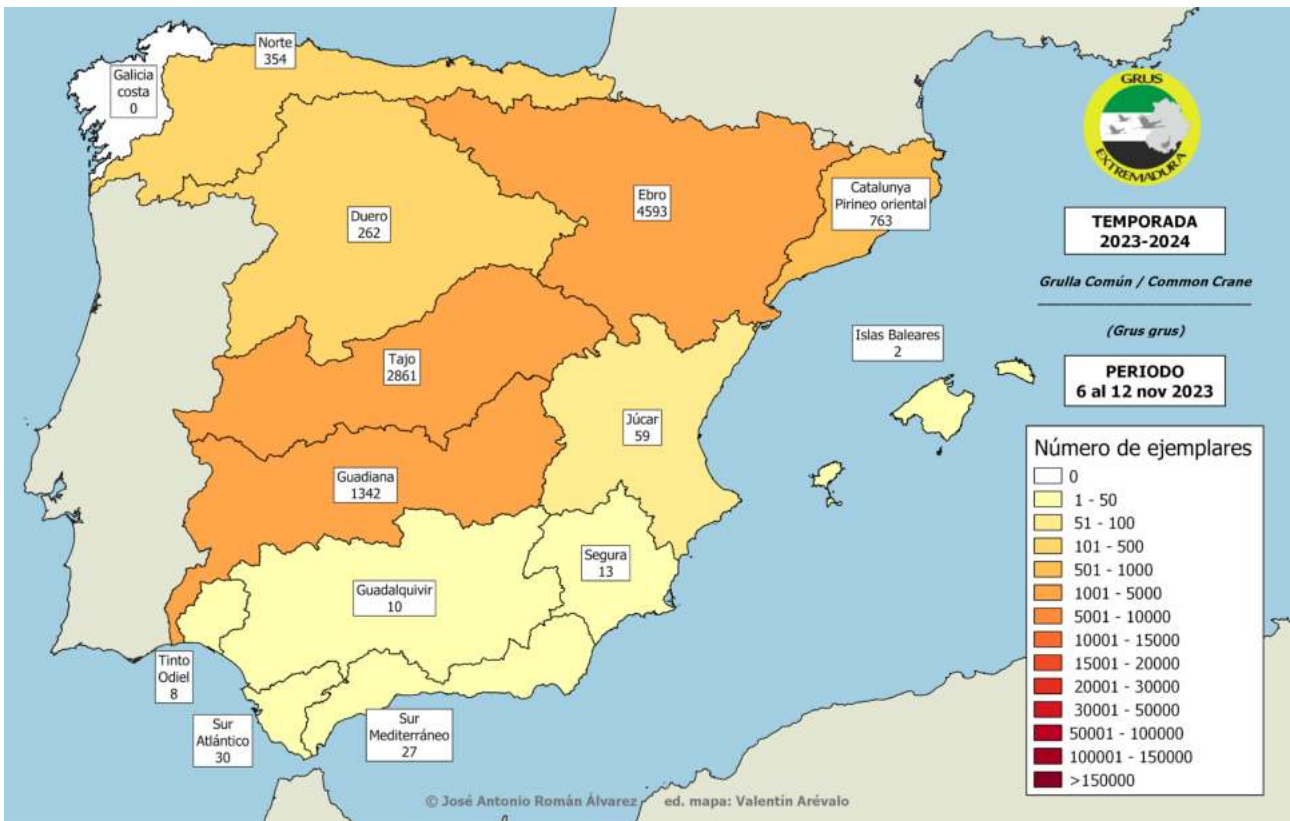


Image nº 29: Cranes over Villafranca de los Caballeros lagoons (TO). Photo: Carmen Comendador





Map nº 15: Migration and distribution by provinces between November 6 and 12



Map nº 16: Migration and distribution by water catchment areas between November 6 and 12

Migration continues slowly at the start of the week. In Germany, several tens of thousands move “en masse”.

-13/11/23: 2,000 at Gallocanta lagoon (Z/TE) which begin to migrate at 10:20h. Antonio Torrijo; 14 circling at La Aldea del Obispo (CC) Neil Renwick; 8 have roosted in the River Tinto (H) José M. Méndez; 6 at Rodrigo lagoon (SG) Fernando Jubete Guzón, Adrián de Castro; 220 at Rosarito reservoir (TO) Dave Langlois; 25 over Navalcán reservoir (TO) Benigno Varillas; 3 at Villeguillo (SG) Fernando Jubete Guzón, Adrián de Castro; 70 over Torrefresneda (BA) Jesús Valiente; 94 over Montijo reservoir (BA) Agapito J Verde, Francisco J. Prieto; 100 over Talavera de la Reina (TO); 2 over Altarejos (CU) Rocío; 13 over Racò de l'Olla (V) J. I. Díes; 15 over Magallón (Z) and 39 at Prados de Agón (Z) FR; 7 over Los Galachos de la Alfranca (Z) José M. Sánchez; 2 at Hoya de la Yerba, Alcañiz (TE) Juan L. Muñoz, Esther Yera; 15 over Moscardón (TE) José A. Beneito; 11 at Tito lagoon, San Clemente (CU) Andrés Pinedo; 7 at Navaseca lagoon (CR) and 70 in Tablas de Daimiel National Park (CR) Francisco Becerra; 33 over Arganda del Rey (M) Gustavo López; 15 over Soto de Mozanaque (M) Beatriz Cortés; 11 over Arroyo de San Serván (BA) José L. Bautista; 9 over El Carrascalejo (BA) Francisco J. Prieto; 3 at Torralba de Oropesa (TO) and 12 at Navalcán reservoir (TO) César Clemente; 185 at Borbollón reservoir (CC) Joaquín Vázquez; 220 at Tirez lagoon (TO) Lucas de las Heras; 23 over Ugena (TO) Sagrario Ballesteros; 23 over Illescas (TO) Leandro Andrada; 7 at Acedera (BA) Ángel López; 5 over Enciso (LR) Asier Ochoa; 7 at Medina Sidonia (CA) Juan Rodríguez; 9 at La Janda (CA) Simon Tonkin; 11 in Doñana National Park (SE) Elena Vs; 1 over Cabeza del Buey (BA) Francisco J. Calvo; 16 over Madrid, José M. Sendarrubia; 8 at El Vicario reservoir (CR) M^a José Valencia; 50 over Alfaro (LR); 28 at Fuente de Piedra (MA) Lovise Sauve; 28 at Aznalcázar (SE) Elena; 2 at Pals (GI) Jaume Coris; 17 at La Dehesa lagoon (SO) Iker Barriales.



Image nº 30: Cranes over Moscardón (TE). Photo: José A. Beneito

-14/11/23: 34 in Los Pedroches (CO) Carmen M^a Ayuso; 3,500 at Gallocanta lagoon (Z/TE) which set off on migration, Antonio Torrijo; 105 at Casa Hitos, Madrigalejo (CC) Martín Kelsey; 2 over Mérida (BA) Francisco Lopo; 35 over Valdemingómez (M) Fernando Gómez (DALMA); heard at Semillas (GU) Mario (DALMA); 70 over Griñón (M) M^a Victoria Cabañas; 13 over Boadilla del Monte (M) José A. Gallego; 13 over Montalla (MU) Cristina Sobrado, Jesús Rodríguez; 6 over Cáceres, José M^a Rojo; 11 at Palacio Quemado, Almendralejo (BA) Pepe Elías; 1 over Collado Mediano (M) Adolfo Rodríguez; 120 over Toledo, SEO-Toledo; 25 at Acedera (BA) Ángel López; 16 over Utrera (SE) Antonio García; 734 over Hombrados (GU) and 100 over Campillo de Dueñas (GU) Patricia Alcázar; 3 at Castellò d'Empúries (GI) Eloi Iglesias; 34 at Escorial (CC) Seppo Hjerppe; 35 at Brazo del Este (SE) Robert Pen; 10 over Daganzo de Arriba (M) Jorge Díaz; 23 over Madrid, Marcos Rodríguez; 250 in Tablas de Daimiel National Park (CR) Fabio Flechoso; 40 over Corral de Calatrava (CR) Francisco Hidalgo; 32 over Jábaga (CU) Fernando Alonso; 5 over Cabezo de Atalaya (Z) Gonzalo Peña; 7 in Sueca marsh (V) M. Chacón, D. Navalón, A. Torres; 3 in Els Moros marsh (V) Toni Alcocer; 30 over Talavera de la Reina (TO) Antonio Alía (ARDEIDAS); 27 over Huelves (CU) Eva López; 11 at Riolobos weir (SA) Fernando Aranguren; 14 at Sotonera reservoir (HU) Ricardo Pérez; 70 over Quinto (Z) Alfredo Sánchez; 18 over Talavera de la Reina (TO) Carlos Herranz; 2 at Guialguerrero lagoon (Z) Francisco J. Sampietro; 52 over Miguelturra (CR) Justo Torres; 150 roost at Lumpiñén-Ortilla (HU) Kees Woutersen; migrants arrive at 20:00h at Gallocanta lagoon, via Berrueco (Z) Carmina Franco and also via Tornos (TE) Sabi Martínez.



Image nº 31: Cranes at Pals (GI). Photo: Jaume Coris

-15/11/23: 8 at Oliva de Plasencia (CC) Fernando Sánchez; 2,100 at Gallocanta lagoon (Z/TE) Antonio Torrijo; 1 over Almaraz (CC) Alicia Casillas; 32 at La Trebolosa (CC) Martin Kelsey; 12 at Pétrola (AB) Marcelo Quesada; 26 over Villanueva del Pardillo (M) Patricia Alonso; 250 at Navalvillar de Pela (BA) Ángel López; 24 at Santa Teresa reservoir (SA) Vicente G. Garrudo; 48 over Alfaro (LR) Miguel Martínez; 70 at Sotos de Alfaro (LR) Borja Sanz; 45 at Los Canchales reservoir (BA) Elvira del Viejo; 50 at Sotonera reservoir (HU) Esther Yera; 185 go to roost at Borbollón reservoir (CC) Miguel Todón; 80 over Baztán (NA) Xabier Etxarri; 6 over Sant Pere Pescador (GI) Joan Ventura; 150 over Lleida, Ernest Aymerich; 200 over Rivas de Tereso (LR) Jorge Alonso; flock over Velilla de San Antonio (M) Esther Murciano; 3 over Txingudi, Irún (G) José F. Esparcia; 7 at Vivares (BA) José M^a Benítez; 10 at Camino de Villafranca lagoon (CR), 5 at Las Yeguas lagoon (CR) and 308 at Valdancho lagoon, Quero (TO) Pedro Bustamante; 220 at Tirez lagoon (TO) Marce Martín; 21 over San Lorenzo del Escorial (M) Chemi Ibáñez; 36 over the River Guadarrama, Valdemorillo (M) Edmund Bell; 6 over Madrid, Félix Arribas, Marcos Rodríguez; 45 over Leganés (M) Carlos Herranz; 440 at El Hito lagoon, Montalbo (CU) Eduardo Palencia; 11 at Amposta (T) Sergi Sales; 1 over La Alfranca (Z) Elena Cantalapiedra; 10 at Guialguerrero lagoon (Z) Antonio Torrijo; 1 at Deltebre (T) Xavier Bayer; 60 in Doñana National Park (SE) Vicent Esteller; 2 at Brazo del Este (SE) José M^a Reyes; 22 over the River Cèrrol (CS) Àlex Fonollosa; 8 at Santillana reservoir (M) Jorge Martínez; 2 over Plasencia (CC) Javier Prieta; 9 over Dos Torres (CO) Fernando J. Díaz; 25 over Toledo; 8 over Helechosa de los Montes (BA) Ibai Llosa; 16 over Pozuelo de Calatrava (CR) Javier Gómez; 37 at Boada de Campos lagoon (P) Francisco J. Calvo;



Image nº 32: Cranes at Boada de Campos lagoon (P). Photo: Francisco J. Calvo

-16/11/23: 143 at Palazuelo (CC), 4 at Vivares (BA) and 6 at Casar de Miajadas (CC) José A. Román; 26 over Encinacorba (Z) and 80 over Cariñena (Z) Esther Charles; 2,632 are censused in the morning at Gallocanta lagoon (Z/TE) and the majority leave on migration, Francisco J. Sampietro; 98 over Alfaro (LR) Miguel Martínez; 17 over Villanueva del Pardillo (M) Patricia Alonso; 140 arrive at Gallocanta lagoon (Z/TE) via Berrueco at 15:15h, Carmina Franco; 100 at Fuente de Piedra lagoon (MA) África Lupión; 230 at La Janda (CA) Alejandro Onrubia; 54 over Huesca, Kees Woutersen; 7 at Membrío (CC) Fernando Sánchez; 32 over Las Rozas (M) Óscar Llana; 11 at Moguer (H) Paco Chiclana; 2 at El Hondo reservoir (A) Darío Gijón; 85 over Los Yébenes (TO) Esther Murciano; 3 in rice fields at Selgua (HU) and 4 at Muela de Terren (HU) Jesús Lavedán; 90 at Ejea de los Caballeros (Z) Javier Train; 6+75 over Zaragoza, Elena Cantalapiedra, Javier Ferreres; 6 at El Cañizar lagoon (TE) Pablo Moya; 41 over Moscardón (TE) José A. Beneito; 12 at Valdecañas reservoir (CC) Vicente Risco; 4 on Belén plain (CC) Seppo Hjerpe; 130 at Logrosán (CC) Martín Kelsey; 6 at La Veguilla lagoon (CR) and 303 at Tirez lagoon (TO) Pedro Bustamante; 166 roost at El Hoyo lagoon, El Oso (AV) Juan R. Cuervo; Chema García; 16 over Soria, Sergio Gil; 10 in rice fields at Capdesaso (HU) Eduardo Gracia; 16 at Portiña reservoir, Talavera de la Reina (TO) Antonio Alía (ARDEIDAS); 19 at La Aldea del Obispo (CC) Neil Renwick; 12 over Villadelprado (M) Miguel Folgado; 3 at Atapuerca lagoon (BU) Rafael Díez, César Díez; 2,860 roost at Gallocanta lagoon (Z/TE) S.A.R.G.A.; some flocks arrive at this lagoon via Berrueco (Z) Antonio Torrijo; 320 at Palancoso lagoon (CC) Vicente Risco, 20 Getafe (M) Cristian García; 13 over Palamós (GI) Manolo García; 1 Llobregat delta (B) Pablo Tierno 70 over the Sierra de la Luna (Z) Aitor Mora; 6 over Miranda de Ebro (BU) Gerardo Rodríguez.



Image nº 33: Cranes in rice fields at Palazuelo (CC). Photo: José A. Román

-17/11/23: 60 over Calera y Chozas (TO) Manuel Moro; 120 over Rodanas hill (Z) Esther Charles; 3,900 at Gallocanta lagoon (Z/TE), beginning migration at 09:50h, Antonio Torrijo; 6 over Velada (TO) Antonio Alía (ARDEIDAS) 179 at Dulce lagoon, Campillos (MA) Javier Fregenal; 2 over Almenar (LL) César Piñol; 2 over Alfaro (LR) Ignacio Gámez; 13 over Madrid, Ángel Velasco (SEO-Toledo); 47 over Quintos de Mora (TO) Esther Murciano; migrants arrive at 16:43h at Gallocanta lagoon (Z/TE) Carmina Franco; 4 at Beleña lagoon (GU) Fernando Gómez (DALMA); 8 over Guadalajara; 3 at Sueca (V) Virgilio Beltrán; 6 at Amposta (T) José Guerra, Marc Gálvez; 3 over Zaragoza, Enrique Pelayo; 17 in rice fields at La Noria (HU) Jesús Lavedán; 12 in rice fields at Riumors (GI) Bernat Garrigos; 20 over Pedrezuela reservoir (M) Jorge Aguilar; 1 at Santillana reservoir (M) Juan de Dios Gómez; 11+25+85 over Madrid, Christophe Pontegnie, Gustavo Fernández, Patricia Rodríguez; 46 over Aranjuez (M) José A. Sánchez; 4 at Alcázar de San Juan (CR) Fernando Pérez; 2 over Don Álvaro (BA) Fergus Crystal; 40 at Riobobos weir (SA) Miguel Rouco; 37 at Boada de Campos lagoon (P) Josep Manchado; 18 over La Patiña (TO) Antonio Alía (ARDEIDAS); 15 in rice fields at Capdesaso (HU) Eduardo Gracia; 45 over Marchamalo (GU) Santi (DALMA); 3 over Albacete, Carletti; 258 at Castrejón reservoir (TO) Cristina Torrijos (SEO-Toledo); 25 over L'Estany (B) Isabel Casas; 97 go to roost in Villafáfila nature reserve (ZA) Gary Losada; 7 over Sevilla la Nueva (M) Mara Brans; 60 over Alcalá de Henares (M) Karmele; 300 roost at Borbollón reservoir (CC) Miguel Todón; 30 over Alfaro (LR) Miguel Martínez; 8 roost at El Pardo reservoir (M) Marcos Escuredo (GOEP); 130 over Sigüenza (GU) María Luisa Gil; 70 over Canredondo (GU) Fernando Canalejas (DALMA); 40 over Ordaz (TO) Manu Santa-Cruz; 11 over Sureste natural park (M) Antonio Mansilla; 42 over San Juan lagoon (M) Santiago Delgado; 40 over Cortes (Z) Rubén Hernández; 85 over Tribaldos (CU) Antonio Mirat; 48 over Ciudad Real, Anibal de la Beldad; 85 over Pédrola (Z) Eduardo Gil; heard over Villafranca de los Caballeros (TO) Sonia Oliver; flock over Girona, Guillem Sagner; 65 over Sant Cugat del Vallès (B) Xavi Escobar; 6 over Villarreal de San Carlos (CC) Juan Ramírez; 100 over Monfragüe National Park (CC) Tiago Brandão, Juan Ramírez; 5 over Calera y Chozas (TO) Toni Ferrer, David Hurtado; 3 at Sueca (V) Yanina Maggiotto, Virgilio Beltrán; 23 over Braojos (M) Miguel A. Sánchez; 6 over Medina Sidonia (CA) Juan M González; 7 over Trujillo (CC) Carmen Pérez-Aloe; 8 over Torremendo (A) Pablo Perales; 13 over Cotos pass, Sierra de Guadarrama (M) Carla Culebras, Juanma Santma.



Image nº 34: Cranes at Huélaga (CC). Photo: Miguel Todón

-18/11/23: 11 at Torre de Abraham (CR) Esther Murciano; 3,500 at Gallocanta lagoon (Z/TE) from where they began to leave at 11:00h, Antonio Torrijo; 9 over Peña Palomera (Z) Diego Uche; 6 at Mesa de Asta lagoon (CA) and 53 at Trebujena (CA) Guillermo Piñal, Juan Rodríguez; 165 at Pitillas lagoon (NA) Anabel Seco; 1 over Moratalla (MU) Cristina Sobrado, Jesús Rodríguez; 30 over Guadalajara, Fernando Gómez (DALMA); 5 over Quintanar de la Orden (TO) Valentín López; 11 over Alcázar de San Juan (CR) Juan V. García; 110 over Aranjuez (M) Antonio Mirat; 23 over Cornalvo reservoir (BA) Gus Gahete; 16 over Santa Cruz de la Sierra (CC) Alejandro Montero; 160 over Auñón (GU) Juan M. Nuevo (DALMA); 13 over Tembleque (TO) Juan M. Ranz, Ángel Martín; 20 over Lobón (BA) Arturo Pérez; 33+25 over Aldea del Fresno (M) Unai Fuerte, Miguel Folgado; 15 over Villadelprado (M) Miguel Folgado; 52 at Atance reservoir (GU) Sergio Pérez; 4 over Valdemanco pool (M) Candela Perpiñán; 35 over Val reservoir (Z) Carlos Mompó; 12 over Perdices (SO) and 19 over Zamajón (SO), Juan L. Hernández; 8 at Camino lagoon, Villafranca (TO) Benito Montiel; 12 at Tirez lagoon (TO) Fernando López; 1 over Daganzo de Arriba (M) Jorge Díaz; 6 over Plasencia de Jalón (Z) Héctor Pinilla; 156 over Tarazona (Z) Carlos Baraza; 199 over the Sierra de Aibar (NA) Jon Sola, Javi Sola; 200 at Loza reservoir (NA) Alberto Rodríguez; 40 over Torrejón de Ardoz (M) José A. Fimia; 17 over Villanueva del Pardillo (M) Patricia Alonso; 42 over Brunete (M) Mara Brans; 200 over Huetos (GU) Francisco Canalejas (DALMA); 3 over Las Cañas lagoon (NA) Javier Robres; 455 roost at Borbollón reservoir (CC) Miguel Todón; 23 over Griñón (M) M^a Victoria Cabañas; 31 over Ugena (TO) Chon Conde; 50 over Navas de Estena (TO) Esther Murciano; 287 roost at Cubilar reservoir (CC) Carmen M. Ayuso, Ángel Arellano; 4 over Monfragüe National Park (CC) Alessandro Ghiggi; 20 over Huetos (GU) Fernando Canalejas (DALMA); 12 over Vera de Moncayo (Z) Carlos Baonza; 2 over Malla (B) Enric Marrodán; 3 over Banyoles (GI) César Pedrocchi; 2 over Les Franqueses del Vallès (B)

Xavi Larruy; 100 over Torrellas (B) Andrés; 1 over Borox (TO) Miguel García; 35 over Rivas Vaciamadrid (M) Octavio Infante; 2 over Pedrezuela reservoir (M) Antonio Espín, Beatriz Cortés, Javier Hernández; 3 over La Cabrera (M)) Raúl Martínez; 2 over Moscardón (TO) José A. Beneito; 34 at La Zolina reservoir (NA) Cuevas Ruíz; 27 over Alcalá de Gurrea (HU) Francisco Quesada; 110 at Almudévar (HU) Javier Vera; 17 over Osso de Cinca (HU) Mary Trombley; 1 over Sástago (Z) Marcos Lacasa; 184 go to roost at El Hoyo lagoon (AV) Arón Blázquez; 30 over El Retiro (M); flock at 20:25h over Cabanillas del Campo (GU) José M. Gómez (DALMA); 7 at Alqueva reservoir (BA) Mariano Cabrero; 61 over Bagà (B) Carles Durà; 2 over Lleida, Àlex Fonollosa; 5 at El Rocío (H) Foxferther Zenkova; 177 at Fuente de Piedra lagoon (MA) Eva Ruíz; 1 at Cabo de Gata natural park (AL) Carmen París, Antonio Varona; 165 at Pitillas lagoon (NA) Ángel Seco; 5 over Daganzo de Arriba (M) Carlos Talabante; 4 over Constantina (SE) Vicent Esteller; 132 at Los Canchales reservoir (BA) Juan A. García; 20 over Montijo (BA) Arturo Pérez; 270 at Alonso de Ojeda (CC) Martin Kelsey; 44 over Santa Cruz de la Sierra (CC) Carmen Pérez-Aloe; 18 at Las Urdimalas, Malpartida de Plasencia (CC) José M. Jiménez; 101 at Zarza de Granadilla (CC) and 78 at Oliva de Plasencia (CC) Javier Prieta; 3 at Sando (SA) Miguel Rodríguez; 60 Valmojado (M) Unai Forte



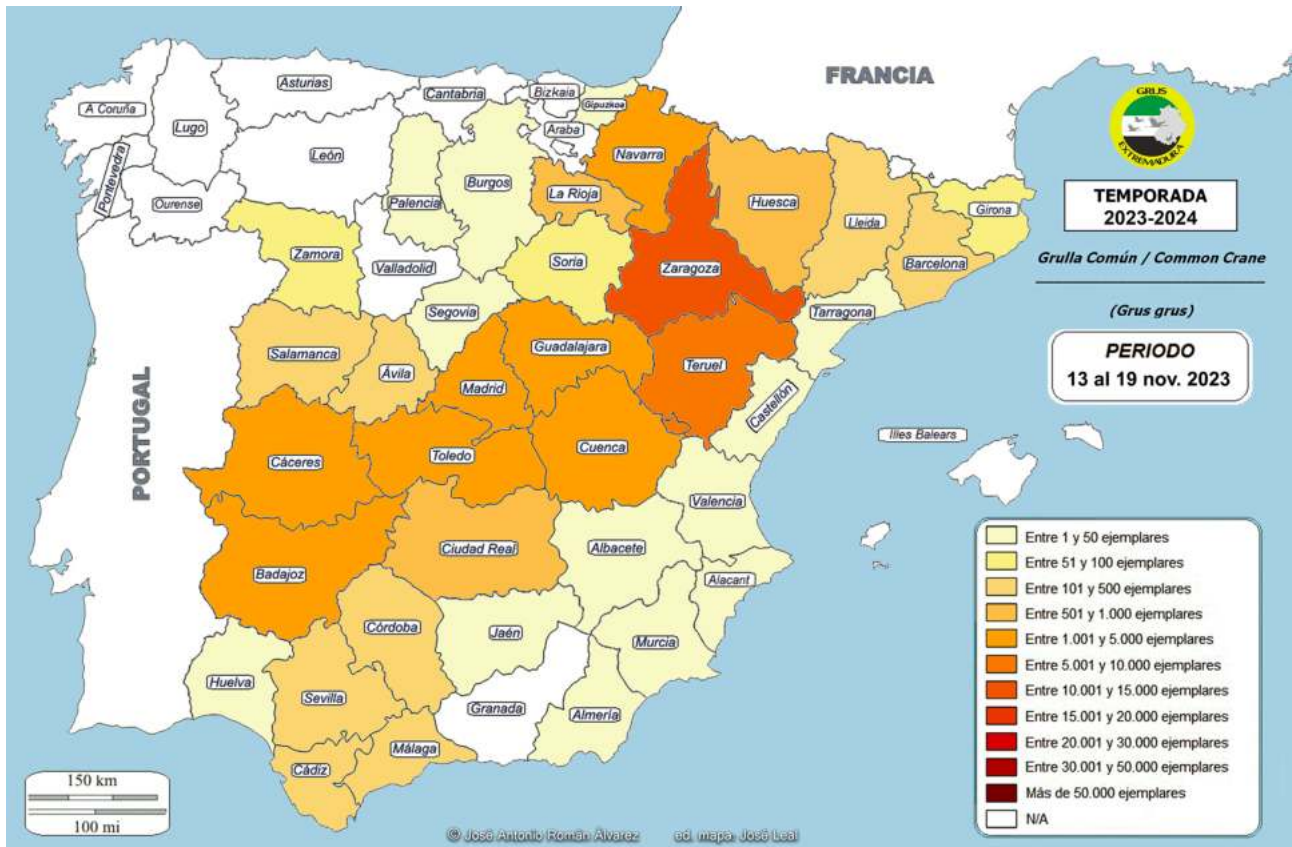
Image nº 35: Cranes arriving at the roost, Borbollón reservoir (CC). Photo: Miguel Todón

-19/11/23: 17 at Pétrola (AB) Fernando Rico; 1 over Cape Roig (A) Alfonso Samper; 271 in rice fields at Grañen (HU) Eduardo Gracia; 7 leave El Pardo reservoir (M) Marco Escuredo (GOEP); 6 over Leiva (LR) José I. Sáenz; 12 over Dehesa de la Villa (M) José A. Montero (GOEP); 4,700 at Gallocanta lagoon (Z/TE) from where they begin to migrate at 10:30h, Antonio Torrijo; 12 at the seasonal lagoon at Tembleque (TO) Ángel Velasco (SEO-Toledo); 12 arrive in the dehesas of Los Pedroches (CO) at 11:16h, Cristóbal Valle; 18 at Monteagudo de las Vicarias reservoir (SO) Juan I. Hernández; 42 over Bujaraloz (Z) Conchi Esteban; 87 over Cabanillas del Campo (GU) José M. Gómez (DALMA); flock over Sotolargo (GU) Fernando Gómez (DALMA); 50 over Huetos (GU) Fernando Canalejas (DALMA); 43 over Gallegos de Altamiro (AV) Chema García; 12 over Jarandilla de la Vera (CC) Sofía Moreno; 23 over Jirueque (GU) Vicente Peinado; 113 over Taravilla (GU) and 150 over Armallones (GU) José Morales (DALMA); 14 over Sotolargo (GU) Fernando Gómez (DALMA); 73 over Marchamalo (GU) Carlos Paulos (DALMA); 224 in four flocks over Virgen de la Hoz (GU) Dianka (DALMA); 23 over Jirueque (GU) Peina (DALMA); 4 over Cabanillas del Campo (GU) José L. Arias (DALMA); 1 over Chinchilla-Aragón castle (AB) Conrado Rodriguez; 10 at Los Blázquez (CO) Marga Martín; 50 at Navalespino reservoir (CO) Miguel Corvillo; 4 at La Aldea del Obispo (CC) Neil Renwick; 1 over Guadalajara, Javi Calvo (DALMA); 20 over Sevilla la Nueva (M) Mara Brans; 45 over Carabanchel (M) Juan A. Díaz (GOEP); 240 in five flocks over El Pardo (M) Marcos Escuredo (GOEP); 35 over Granja de Torrehermosa (BA) Gus Gahete; 7 circling over Bujaraloz (Z) Conchi Esteban; 100 over Huetos (GU) Fernando Canalejas (DALMA); 4 over Escariche (GU) Ana (DALMA); heard at Guadalajara, José M. Gómez (DALMA); 5 at Santillana reservoir (M) Alberto Pantoja; 152 over Pastrana (GU) Cristina Pintor; 3 over Cabanillas del Campo (GU) Fernando Gómez (DALMA); 40 over Peñalen (GU) Javi Rejos (DALMA); 29 over Guadalajara, Carlos Paulos (DALMA); 8 over Boadilla (M) Yolanda Díez; 70 over Cabanillas del Campo (GU) José L. Arias (DALMA); 130 feeding in Tablas de Daimiel National Park (CR); 23 over Vivares (BA) Alejandro Montero; 78 over Marchamalo (GU) Isabel & Fernando (DALMA); 276 arrive at Manjavacas lagoon (CU) Noelia Escudero; 143 over Jirueque (GU) Peina (DALMA); 4 in rice fields at Tauste and 12 at Ejea de los Caballeros (Z) Javier López; 2 over Sevilla la Nueva (M) Mara Brans; 60 over Calatayud (Z) Raúl Modrego; 80 over Cabanillas del Campo (GU) Fernando Gómez, José L. Arias (DALMA); 139 over Milmarcos (GU) Antonio Torrijo; 19 at Pétrola (AB) Raquel Martínez; 10 over Villanueva de Pardillo (M) Patricia Alonso; 288 at Torviscal (BA), 93 at Zurbarán (BA), 270 at Colón (BA), 102 at Palazuelo (CC), 76 at Pizarro (BA), 7 at Casar de Miajadas and 6 over Vivares (BA) José A. Román; 20 over Macanet de Cabrenys (GI) Ximena Pérez; 55 over Puigcerdà (GI) Pere Baucells; 10 at Amposta (T) Eugeni Capellán; 80 over Alfés (LL) Xavier Vaillant; 5 over Secà d'Ulldecona (T); Miguel Recreo; 4 at Aiguamolls de l'Empordà (GI) Eva Asensio; 7 over Castellbisbal (B) Dani Pérez; 19 in rice fields at Selgua (HU) Marcos Lacasa; 25 in rice fields at Tauste (Z) Alfredo Sánchez; 25 at Estanca de Escorrón (Z) Rocío Sus, Alfredo Sánchez; 41 over Buñuel (NA) Patricia Andrés; 1 at Valdelafuen (Z) and 9 at Dos Reinos lagoon (NA) Haritz Sarasa; 240 over Sangüesa (NA) Jon Sola; 85 over Aranguren (NA) María Durán; 15 at Santillana reservoir (M) David Serrano; 1 over Soto del Real (M) Francisco Molinero; 4 over Pedrezuela reservoir (M) Jesús Ruíz; 15 at Puebla de Beleña lagoon (GU) Juan C. Hidalgo; 400 over Zaorejas (GU) Patricia Sánchez, Sofía García; 3 over Torralba de los

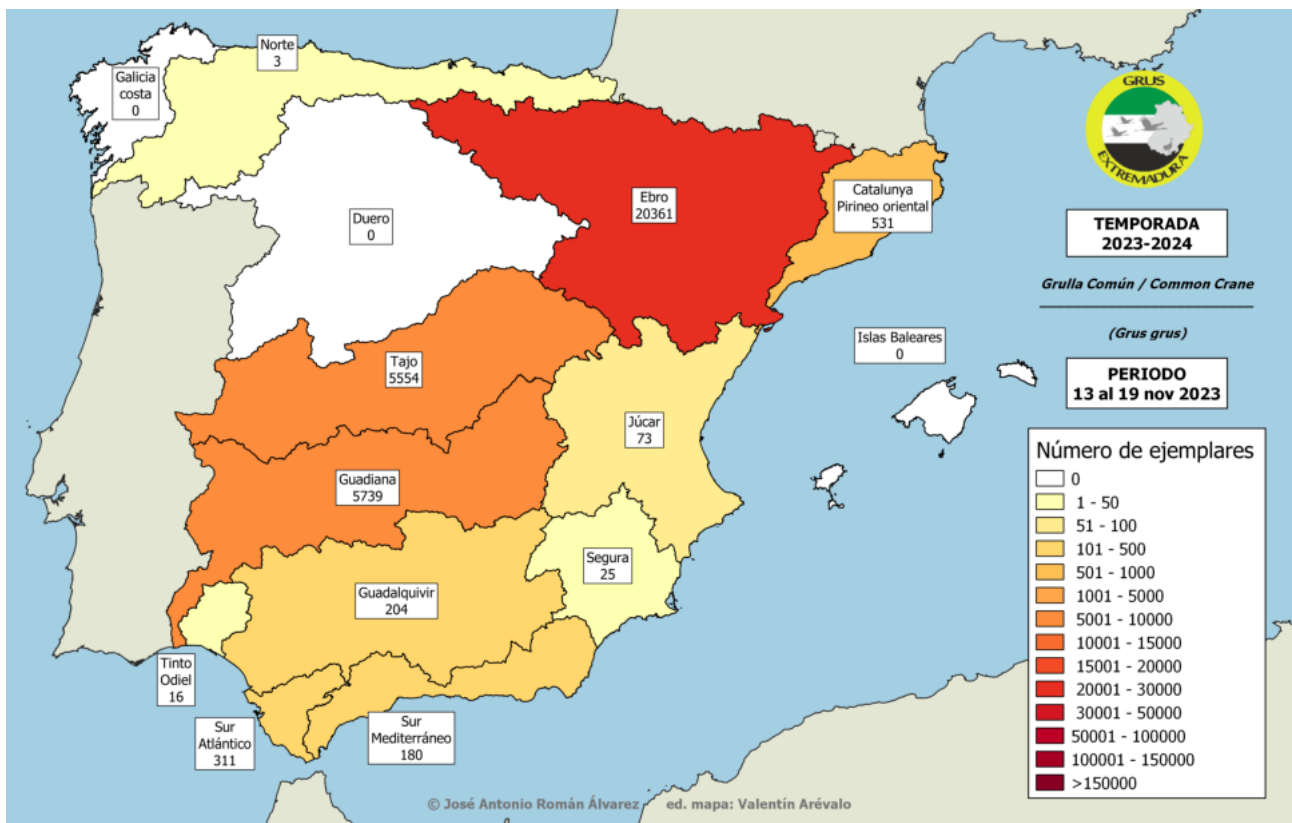
Frailles (Z) Alejandro Fernández; 13 over Alfamén (Z) Héctor Pinilla; 15 over Zaragoza, Diego Uche; 23 over Almazán (SO) Juan L. Hernández; 30 over Valmojado (M) Unai Fuerte; 80 over Cobisa (TO) Manu Santa-Cruz; 30 at Tirez lagoon (TO); 50 at Junta de los Ríos (CR) Alba Becerra; 100 at Manjavacas lagoon (CU) Paula Morral; 22 at Navalcán reservoir (TO) César Clemente; 17 over Arrocampo reservoir (CC) Marta Herrero; 40 at La Bazagona (CC) Javier Prieta; 4 at Talaván reservoir (CC) Carlos Fernández; 2 at Portaje reservoir (CC) Seppo Hjerppe; 8 at Alcazaba (BA) Arturo Pérez, 8 at Camacho pool, Talaván (CC) Carlos Fernández; 101 at Los Canchales reservoir (BA) Juan A. García; 10 over Getafe (M) and 50 over Griñón (M) M. Victoria Cabañas; 113 over Ugena (TO) Chon Conde, Juan L. Torres; 17 over Higuera de Dueñas (AV) Octavio Infante; 2,719 in the Central Zone of Extremadura (CC/BA) José A. Sánchez; 33 over Bayuela castle (TO), Adrián Illescas (ARDEIDAS); 20+16 over Calera y Chozas (TO) Marisa Hoyos, Miguel A. De la Cruz, Manuel Flores (ARDEIDAS); 23 over Talavera de la Reina (TO) Manuel Salcedo (ARDEIDAS); 150 over Madrid, José L. Margalet (ARDEIDAS); 2 at Gévora (BA) Jesús Guerrero; passage at 22:25h over Guadalajara, José M. Gómez; 1,500+ go to roost at Manjavacas lagoon (CU) Esther Buendía, Luis Sánchez; 26 at Santa Teresa reservoir (SA) Vicente G. Garrudo; 110 roost at Sotonera reservoir (HU) Pablo Vallés; 60 set off from El Hoyo lagoon (AV) where 282 roost, Cruz González, Arón Blázquez; 100 roost at La Colada reservoir (CO) Juanma Sánchez; 12 go to roost at Villalba de los Barros reservoir (BA) Juan G. Miranda; 164 roost at Santa Amalia (BA) José A. Román; 30 at 21:00h over Villanueva del Pardillo (M) Patricia Alonso.



Image nº 36: Cranes feeding in dehesa at Navalvillar de Pela (BA). Photo: José A. Sánchez



Map nº 17: Migration and distribution by provinces between November 13 and 19



Map nº 18: Migration and distribution by water catchment areas between November 13 and 19

A week of intense migration, by day and by night, favoured by mostly north-easterly winds, especially on Wednesday 22nd, which recorded a significant continual movement during more than 36 hours, tracked through Navarra, Aragón, central Spain and wintering areas, where a considerable increase of wintering birds was observed.

-20/11/23; 10 leave Las Cañas, Viana (NA) Javier Robres; 26+22 over Toledo, Ángel Velasco, SEO-Toledo; 100 over Grande lagoon, Villafranca (TO) Carmen Comendador; 22 in Badija dehesa, Campanario (BA) Manuel Maximiano; 40+61 over Guadalajara, José M. Gómez, Carlos Arroyo (DALMA); 38 in rice fields at Capdesaso (HU) Eduardo Gracia; 18 at Santa Teresa reservoir (SA) Vicente G. Garrudo; 300 arrive at La Janda (CA) José M. Lubián; 70 over Toledo, Cristina SEO-TO; 37 over Bargas (TO) Juan Fernández-Elipe; heard at Pozuelo de Calatrava (CR) Joaquín Jiménez; 8 at Castellò d'Empuries (GI) Albert Burgas; 40 over Legazpi (G); 7 at Morantes reservoir, La Roca de la Sierra (BA) José L. Bautista; 67 over Madrid, Sara Navarro; 20 over El Retiro (M) Joan A. Ximenis, Ángel L. Neira; 24+28 over Madrid, Jorge García, Christophe Pontegnien; 3 over Torrejón de Ardoz (M) David Araque; 1 at Loza reservoir (NA) Cuevas Ruíz, Alberto Rodríguez; 36 at Sotonera reservoir (HU) María Capa; 3 at Sa Cabaneta, Mallorca (IB) Daniel Hinckley; 12 at Aznalcázar (SE); 20 over Madrid, Jorge García; 24 over Campo de Calatrava (CR) Juan Calonge; 90 over Acedera (BA) Ángel López; 5 over Mirandilla (BA) Francisco A. Prieto; 9 over Cáceres, Alberto Cansado; 25 at Mata de Alcántara (CC) and 20 at Brozas (CC) Ibai Llosa; 17 at Tito lagoon (CU) Andrés Pinedo; 6 over Medina Sidonia (CA) Juan Rodríguez; 17 over Las Rozas (M) José E. Mateos; 100 over Villanueva de la Serena (BA) Antonio Méndez; 25 over Ugena (TO) Inma Mateos; 58 over Guadalajara, José M. Gómez; 100 at Los Valverde pool, Villanueva de la Serena (BA) Antonio Mendoza.



Image nº 37: Cranes over Madrid. Photo: Sara Navarro

-21/11/23: Flock at 07:00h over Legazpi (G); 150 over Irún (G) Aimar Hernández; 6 over Llera (BA) Joaquín Vázquez; 1 at Las Cañas (NA) Alejandro López; 8 over Las Vegas de San Antonio (TO) José L. De la Cruz (ARDEIDAS); 16 over Madrid, Vicente López; 29 over Mérida (BA) Juan A. López; 31 at the River Tinto (H) José M. Méndez; 2 over Moratalla (MU) Irene Arnaldos; 10 over Villanueva de la Serena (BA) Alicia Casillas; 45 over Quintos de Mora (TO) Esther Murciano; 25 over Agudo (CR) Raquel Ramiro; 4 over Tàrrega (LL) Francesc Pont; 3 over Irurreta (BI) Gorka Valdés; 50 over Murillo del Río Leza (LR) Ignacio Gámez; 1 at Trenc, Mallorca (IB) Biel Bernat; 29 over Montijo (BA) Arturo Pérez; 25 at Pizarro (CC) and 75 at Puebla de Alcollarín (CC) Seppo Hjerppe; 50 at Aldea del Cano (CC) JuanMa Jiménez; 12 at Las Urdimalas, Malpartida de Plasencia (CC) José M. Jiménez; 2 over Corina (CC) Juan A. García; 21 at Brozas reservoir II (CC) Ibai Llosa; 270 at Villacañas (TO) Álvaro Nicolau; 10 over Titulcia (M) Antonio Mansilla; 20 over Zamora, José Barrueso; 7 over Campillo de Dueñas (GU) Patricia Alcázar; 103 at El Hito lagoon (CU) Francisco Morata; 128 over Zorita de los Canes (GU) Marco Ansón; 1 over Gerindote (TO) Juan Fernández-Elipe; 2 at the Guadalhorce estuary (MA) Luis Álvarez; 2 over Sierra de Gata (CC) Simon RC, David C. Huertas; 4 at Torremejía lagoon (BA) Lorenzo Alcántara, Francisco Montaña; 8 over Carmonita (BA) Raúl Granados; 12 at El Vicario reservoir (CR) Francisco Hidalgo; heard at Oiartzun (G) Alain Loperena; 26 at Riobobos weir (SA) Jesús Ruyman; passage over Alfaro (LR) at 23:30h, Miguel Martínez.



Image nº 38: Group of cranes at Salburua (AR). Photo: Agustín Rivas

-22/11/23: significant nocturnal passage over Navarra, Jesús M. Lekuona *et al*; 350 at La Janda (CA) Alejandro Onrubia; 35 at Salburua (AR) Agustín Rivas; 140 over Murillo del Río Leza (LR) Ignacio García; 60 over Alfaro (LR) Borja Sanz; 200 in fields at Orduña (AR) Mario Corral; 33 leave Las Cañas, Viana (NA) heading for Logroño (LR) Alejandro López; 90 over Arnedo (LR) Jorge Alonso; 110 over Alfaro (LR) Borja Sanz; 31 at Camino lagoon,

Villafranca (CR) Vicky García; 69 over Alfaro (LR) Borja Sanz; 3,800 at Gallocanta lagoon (Z/TE) Antonio Torrijo; 15 over Trujillo (CC) Neil Renwick; 2 over Fuente Obejuna (CO) Marga Martín; 600 at Huerta Tejada, Doñana National Park (SE) José M. Méndez; 50 over Vitoria (AR) Norber Fuente; 20 over Arnedo (LR) Jesús Ucha; 250 over Nájera (LR) Jorge Alonso; 15+25 over Ezcaray (LR) Juan Carlos; 38 in rice fields at Capdesaso (HU) Eduardo Gracia; 26 over Jirueque (GU) Peina (DALMA); 20 over Soto de los Americanos (LR) Maite Aldonza, Javier Nalda; 23 over Ávila, Cruz González; 42 over Mora (TO) Esther Murciano; 29 over Guadalajara, Jesús Serrano (DALMA); 35 at Vivares (BA) Alicia Casillas; 27 over Berceo (LR)) Eduardo Miera; 18+42 over Jirueque (GU) Jesús Serrano (DALMA); 71 over Fuencemillán (GU) Nuria Rodrigo (DALMA); 295 over Valdelcubo (GU) María Luis Gil; 22 over Curbe (HU) Silvia Duque; 9 over Méntrida (TO) Juan Fernández-Elipe; 50+165+39 over Baztán (NA) Xabier Etxarri; 9 at Hinojos (H) Julio Rabadán; 22 over Vandellòs i l'Hospitalet de l'Infant (T) and 4 over l'Ametlla de Mar (T) Pere J. Agüera; 9 over Viladecans (B) Pablo Pascual; 1 over Barberà del Vallès (B) Cristian Bonsoms; 50 over Beasain (G); 240 over Donostia/San Sebastián (G) Eneko Díez, Carlos Monzón; 30 over Logroño (LR) José Carlos; 80 over Calahorra (LR) Jesús Ucha; 310 over Alfaro (LR) Miguel Martínez; 74 over Fuencemillán (GU) Javier Sopeña, Nuria Rodrigo (DALMA); 5 at Naval Moral de Béjar (SA) Vega Bermejo; 142 over Capdesaso (HU) Eduardo Gracia; 100 over Noreña (AS) Senén SC; 180 at Loza reservoir (NA) Alberto Briz; 180 over Berriozar-Artiberri (NA) Toni Carulla; 2 at Entinas Point (AL) 34 over Huesca, Rajen Ayerra; 100 over Rivas (M) AL; arrival at 18:15h at Gallocanta lagoon (Z/TE) Javier Mañas; 120 at Fuente de Piedra lagoon (MA) Manuel García; 150 over Montijo (BA) Arturo Pérez; 17 at Aldea del Cano (CC) Francis Martín, Raúl Granados; 3 at Cordobilla de Lácara (BA) José L. Bautista; big flock over Pamplona (NA) Diego Zalbidea; 9 at Santa Marta de Magasca (CC) Martin Kelsey; 20 over Los Yébenes (TO) José I. Gómez; 64 over Velilla de San Antonio (M) José M. de la Peña; 15 over Soto de las Juntas (M) Chemi Ibáñez; 21+58 over Ezcaray (LR) Arturo Pascual; 330 at Cuerda del Pozo reservoir (SO) César Díez; 115 over Villaciervos (SO) Juan L. Hernández; 212 over Bliecos (SO), 104 at Monteagudo de las Vicarías reservoir (SO) and 430 over Maján (SO) Diego Santa María; 39 over Tarodaso (SO) César Díez; 10 over Aragón (Z) Javier Ferreres; 30 over Arnedo (LR) Yolanda Hernández; 29 over Boadilla del Monte (M) Luis Bello; 561 over Medigorria (NA) Jesús M. Lekuona; heard over Olite (NA) Daniel Dumas; 78 over Arrasate (G) Julen Santa Cristina; 2 over Gaztelu (BI) Eneko Iturriagaetxebarria; 30 over Bériz (NA) Sergio GM; 180 at Loza reservoir (NA) Alberto Rodríguez, García Gorospe; 200 over Pamplona (NA) Rajen Ayerra; 50 over Itaroa (NA) Ángel Larumbe; 1,203 around La Zolina reservoir (NA) Raúl Pascual, Jorge Nubla; 6 over Logroño (LR) Adrián Sánchez, Gonzalo López; 39 over Ambel (Z) Héctor Bintanel; 20 over Villar de Corneja (AV) Javi Jiménez; 25 over the Plataforma de Gredos (AV) Juan F. Redondo; 5 over La Calzada de Béjar (SA) Fernando Aranguren; 4 at El Hondo reservoir (A) Mark Simmonds; 20 over Griñón (M) M^a Victoria Cabañas; 2 over Salvatierra (AR) Pedro Arratibel; 18 at Arrieta reservoir (BU) José E. Mateos; 1 over Osma de Gállego (HU) Francisco J. Navas; 70 over Sotos de Alfaro (LR) Petra García; 76+11+86+23+17 over Alfaro (LR) Miguel Martínez; 29 over Logroño (LR) Alejandro López; 42 over Guadalajara and 2 over Cabanillas del Campo (GU) José M. Gómez (DALMA); 255 at Las Merinillas, Valverde de Leganés (BA) José L. Vinagre; 7 over Baños de Ebro/Mañueta (AR) Serafín Alarcón; 438 over Txingudi, Irún (G) José F. Esparcia; 122

over Suzana (BU) José E. Mateos; 70 over Pineda de la Sierra (BU) Rufino Fernández; 27 over Arlanzón (BU) Francisco Hernánsanz; 3 at Sa Pobla, Mallorca (IB) María; 7,300 in 69 flocks crossed over Navarra, Jesús M. Lekuona *et al*; 500+ roost at Los Canchales reservoir (BA) Francisco López; 2,388 roost at Borbollón reservoir (CC), Berta Iglesias, Miguel Todón, Agustín Iglesias; flock over Odón (Z) at 19:25h Carmina Franco; 14 over Madrid at 17:58h, Juan C. Rubio; nocturnal passage over Alfaro (LR) Cristina Martínez; 438 roost at Valdecaballeros (BA) Chema Traverso; heard at 21:20h over Villanueva del Pardillo (M) Patricia Alonso; passage at 21:51h over Cabanillas del Campo (GU) José L. Ramos (DALMA); nocturnal passage over Logroño (LR) Eugenio Montelio; passage over Azuqueca de Henares (GU) at 22:33h, Laura Calvo (DALMA); continual passage at night over Pamplona (NA) Jesús M. Lekuona; also over Toledo Gate (M) Ángel Arellano; also over Trujillo (CC) Jesús Porras; also over Ugena (TO) Carmen Conde; big flock over Quintos de Mora (TO) at 22:30h Esther Murciano; also over Alfaro (LR) Miguel Martínez, Óscar Sanz; passage over Guadalajara until 02:00h, Mario (DALMA); flock over La Casa de Campo (M) at 22:58h, Manuel Rincón; nocturnal passage over Arnedo (LR) Jesús Hernández; heard over Marchamalo (GU) El Moyo (DALMA); big flock over Cabeza del Buey (BA) at 00:00h Juanjo Ruiz; passage over Ejea de los Caballeros (Z) Javier López; 5 over Alba de Tormes (SA) Pablo Moya; 50 over Murillo del Río Leza (LR), 150 at 23:30h and 100+ at 23:45h, Ignacio Gámez; 17+70 over Lagartera (TO) César Clemente; 341 roost at El Hoyo lagoon (AV) Chema García, Arón Blázquez.



Image nº 39: Cranes over Navarra. Photo: Jesús Mari Lekuona

-23/11/23: Flock over Atienza (GU) at 00:45h, Joaquín (DALMA); heard at 00:21h over Fuencillán (GU) Javier Sopeña (DALMA); flock at 05:20h over Villaverde Bajo (M) José L. Morillas; flock over Collado Mediano (M) at 06:30h, Adolfo Rodríguez (GOEP); 48+65+52+49+45+33+85 between 06:32h and 07:07h over Torrijos (TO), Cristina SEO-TO; 80 before dawn over Pago de San Clemente (CC) Martin Kelsey; 12,000 go over Navarra at night, Jesús M. Lekuona *et al*; passage over Villanueva del Pardillo (M) between 03:53h and 05:55h, Patricia Alonso; 85+50+120 over Boadilla del Monte (M) José A. Gallego; 16+28 over Pozuelo de Alarcón (M) José A. Fimia; 15+42+4+4 migrating and 8 in dehesas at La Aldea del Obispo (CC) Neil Renwick; 12 over Madrid, José M. Ruiz; 51 over Jarandilla de la Vera (CC) Sofía Moreno; 45 over Barromán (AV) Chema García; 180 over Urrea de Jalón (Z) Rubén Utiel; 42+27+54+90 over Torrijos (TO) Cristina SEO-TO; 190 over Boadilla del Monte (M) and 16 over La Casa de Campo (M) Mara Brans; 37+70 over Cercedilla (M) Alberto Pantoja; 23 over Colmenar Viejo (M) Sol Senise; 85+42+14+27 over Quintos de Mora (TO) Esther Murciano; 29 over Ejea de los Caballeros (Z) Javier López; 200 over Francos (SA) Joaquín; 2 at Sotos de Alfaro (LR) Ignacio Gámez and Lidia Roncero.



Image nº 40: Cranes migrating at night over Griñón (M). Photo: Victoria Cabañas

45+6+86 over Leganés (M) Alfredo Mirat; 205 over Boadilla del Monte (M) José A. Gallego; 15+10 over Cáceres, Alicia Casillas; 8 over Mérida, Juan A. López; 77 over Hoyo de Pinares (M) José A. Gallego; 34+28 over Toledo, Manuel Rosa; 30 over La Aldea del Obispo (CC) Neil Renwick; 40 over Gotarrendura (AV) Chema García; 76+20+60 over Ugena (CC) Carmen Conde, Conchita Torres; 123+130 over Toledo, Cristina SEO-TO; 76+159 over Toledo, Ángel Velasco SEO-TO; 2 at Las Cañas, Viana (NA) Carmelo García; continual passage over Tablas de Daimiel National Park (CR) Juan A. Santos; 28+110+130+50 over Quintos de Mora (TO) Esther Murciano; 11 over Puente del Arzobispo (TO) Noemí Sardinero (ARDEIDAS); 582 at Montijo (BA) Vicente G. Garrudo;

50 over Villar de Arnedo (LR) Jorge Ezquerro; 100 circling over Alto Jiloca (TE) Eva Gascón; 26,500 set off on migration from Gallocanta lagoon (Z/TE) S.A.R.G.A.; 5 over Pozoblanco (CO) Pedro; 1 in dehesa at Herrera de Alcántara (CC) Antonio Galán; continual passage over Cornalvo natural park (BA) Jesús Valiente; 2,500 on passage from 06:30h over Mejorada (TO) and 44 over San Román de los Montes (TO) Victoria Fraile (ARDEIDAS); 18+9 over Talavera de la Reina (TO) Pilar González, Marisa Hoyos (ARDEIDAS); 58+82 over Robledillo (GU) Jesús Serrano; 109 over Madrid, Juan C. Paniagua; 22 over Toledo, Ángel Velasco SEO-TO; 90 over Madrid, Alfonso González; 103 over Villaverde (M) and 192 over Fuenlabrada (M) Paula González; 500 in dehesas at La Colada (CO) Carmen M. Ayuso; 60+75+90+97+22+25 over San Román de los Montes (TO) Francisco Rodríguez (ARDEIDAS); 223 over Toledo, Cristina, SEO-TO; 62 over Malpartida de Plasencia (CC) Eva Garzón; 47 over Rivas Vaciamadrid (M) and 20 over Alía (CC) Ángel López; 1,000 in rice fields at Zarzalejos (BA/CC) Ángel López; 13,060 are censused at Gallocanta lagoon (Z/TE) S.A.R.G.A.; 70 over Alfaro (LR) Miguel Martínez; 54 over Jirueque (GU) Vicente Peinado (DALMA); 63+113 over Robledillo (GU) Jesús Serrano (DALMA); 50 over Talavera de la Reina (TO) Alain van Ghyseghem; 20 over Montalbanejo (CU) Nelson Mesonero; 117 over Altarejos (CU) Rocío; 80+32+85 over Bargas (TO) Juan Fernández-Elipe; 8+25 over Griñon (M) and 28 over Humanes (M) Marcos Ansón; 39 over Sierra De Fuentes (CC) Santiago Ezquerro; 20 over Pozuelo de Alarcón (M) Carlos Rodríguez; 28 over Girona, Hubert Mas; 54 at La Secuita (T) Albert Cama; 2 over Txingudi (G) José F. Esparcia; 2 over Los Barrios (CA) Ricardo Campos; 53 at Moguer (H) Francisco Rivas; 50+44+3 over Corte de Peleas (BA) José L. Bautista; 17 over Mirandilla (BA) José M. Benítez; 2 over Ventillas (CR) Jorge Sereno; 220 over Villarejo de Salvanes (M) Francisco Garnacho; 84+430+314 over Lagartera (TO) César Clemente; 2+51+35+26 over Plasencia (CC) Javier Prieta; 104 over Jarandilla de la Vera (CC) Alejandro Puerto; 45+104+53 over Valdesalor reservoir (CC) and 120 at La Atalaya pool, Aldea del Cano (CC) Francis Martin; 8 over Sierra de Fuentes (CC) Alejandro Puerto; 35 over Collado Mediano (M) Carmen Pérez, Luna Redondo; 17 over Alpedrete (M) David Guillén; 85 over Galapagar (M) Gonzalo Bel; 60 over Las Rozas (M) Carmen Serralle; 200 over Majadahonda (M) Antonio Verdejo; 20 over Pozuelo de Alarcón (M) Diego Herráez; 62+91 over Boadilla del Monte (M) José L. Machuca; 197 over Madrid, José M. Paraíso; 26 over Móstoles (M) Paula González; 23 over Vicálvaro (M) Francisco Cortés; 15 over Cambrils (T); 4 over the River Manzanares (M) García de los Ríos; 13 over San Sebastián de los Reyes (M) Juanma Santana; 40 over Alcobendas (M) Constanza Barrante, Felipe Ríos; 86 over Villalbilla (M) Kato Sánchez; 13 over Simancas (VA) Víctor Salvador; 1 over Zamora, Luis Manso; 300 at Riobobos weir (SA) Miguel Rouco; 1 over Gamonal de la Sierra (AV) César L. Pindado; 15 over Peromingo (SA) Fernando Aranguren; heard at Lucillos (AV) Joaquín Mayo; 37 over Muñena (AV) César San Segundo; 70+58 over La Zolina reservoir (NA) Cuevas Ruiz, Jesús M. Lekuona; 14 at Sotos de Alfaro (LR) Jesús Ucha; 118 over Corella (NA) Samuel Aunión; 1,000 at La Loteta reservoir (Z) Alfredo Sánchez, Luis Gracia, Aitor Mora; 200+36+248 over Longares (Z) Héctor Pinilla; 25 over Santa Eulalia (T) Pablo Moya; 150 over Tembleque (TO) José A. Calvo; 450 at Tirez lagoon (TO) Inmaculada Muela; 50 over Albardinales del Cigüela (TO) Iordan Hristov; 28 at Chica lagoon, Villafranca (TO) M^a José Valencia; 25 over Ciudad Real, Manu Santa Cruz; 13 over El Prado lagoon (CR) Manuel Ruiz; 10 over Corral de Calatrava (CR)

Francisco Hidalgo; 6 in rice fields at Valmuel (TE) Miguel A. Prado; 1,500 at Huerta Tejada, Doñana National Park (SE) José A. Sencianes; 63 at the River Tinto (H) Antonio Rivas; 70 over Alfaro (LR) Miguel Martínez; 560+22 over Montejo (SA) Víctor; 38+82+48+113 over Robledillo de Mohernando (GU) Jesús Serrano (DALMA); 15 at Alcázar de San Juan (CR) Valentín López-Barea; 40 over Sasa (LR) Víctor Martínez; 269 over Monfragüe National Park (CC) and 25 over Valdehúncar (CC) Manuela Rodríguez; 50 over Barajas (M) Delfín González; 72 over Arroyo de San Serván (BA) Jj Carreira; 4 over Cazalla (CA) Diegui Herrero; 200 at Francos gravel pit, Machacón (SA) Joaquín Salinas; 173 over Valladolid, Alejandro Sanz; 1 at Atapuerca lagoon (BU) Lara Mdmí, Marc Barrios; 1 over Barakaldo (BI) Manu Reyes; heard at Bestué (HU) José Sánchez; 2 at El Hondo reservoir (A) Toni Zaragoza; 700 at Madrideojos (TO) Emilya Glavadzhanova; 2 over Fuencaliente (CR) Jorge Sereno; 220 at Novelda del Guadiana (BA) Arturo Pérez; 65 over Alcalá de Henares (M) David Araque; 800 at Pueblonuevo de Miramontes (CC) Dave Langlois; 4,162 migrating in 50 flocks, during 4 hours, through Miravete Pass (CC) Seppo Hjerppe; 498 over Torrijos (TO).

-24/11/23: 1,245 in the roost at Santa Amalia (BA) José A. Román; 157 roosted in the River Tinto (H) José M. Méndez; 350 at La Loteta reservoir (Z) Fede Sancho; 150 over San Fernando (CA) Fernando Portillo; 80+120 at Los Blázquez (CO) Marga Martín; 15 over Sevilla la Nueva (M) Mara Brans; 55 over Santillana reservoir (M) Juan A. Díez (GOEP); 3,247 around Valdehornillos (BA); 633 at Yelbes (BA) and 623 at Villagonzalo (BA) José A. Román; 20 circling at Alcuescar (CC) Encarnación Báez; heard at Jirueque (GU) Vicente Peinado (DALMA); 15 over Cabañas del Castillo (CC) Juan J. Ferrero; 35 at El Cañizar lagoon (T) Iovanka de Leonardo; 50 over Almendralejo (BA) and heard at Monesterio (BA) Francisco Macías; 57 over Solana de los Barros (BA) and 27 over Villalba de los Barros (BA) José Leal; 25 over Boadilla del Monte (M) José A. Gallego; 9 at Hinojosa del Duque (CO) Pedro; 3 over Guadalajara, José M. Gómez (DALMA); 35+39 over Boadilla del Monte (M) Yolanda Díez; 950 at Alboré reservoir (HU) Francisco Quesada; 87 at Pitillas lagoon (NA) Rajen Ayerra; 13 at Bujaraloz (Z) Conchi Esteban; 37 over La Portilla reservoir, Talavera de la Reina (TO) Miguel A. de la Cruz (ARDEIDAS); 108+123+48 over Espinoso del Rey (TO) Antonio Honorato; 8 over Parla (M) René A. Priego; 23 over Alguerri (LL) Quim Minoves; 78 over Vic (B) Martí Franch; 12 over Sabadell (B) Josep LL. Cortés; 1 at Urdaibai (BI) Aitor Urrutia; 117 at Valdivia (BA), 141 at Logrosán (CC), 80 at Gargáligas (BA) and 180 at Navalvillar de Pela (BA) Julián Cendrero; 120 over Pedrola (Z) Fede Sancho; 50 over Quintos de Mora (TO) Esther Murciano; 354 at Santa Teresa reservoir (SA) Vicente G. Garrudo; 170 over Granja de Torrehermosa (BA) Alejandro Montero; 194 at Alqueva reservoir, Villarreal (BA) Julián Cabello; 104 over Sureste natural park (M) Luis M. Pérez; 35 over Madrid, Javier González; 85 at El Cañizar lagoon (TE) José A. Beneito; 15 at Villarquemado (TE) Pablo Moya; 8 over Els Plans de Siò (LL) Raquel González; 527 at Villacañas (TO) Diego Llorente; 25 at Miguel Esteban pools (TO) Mercedes Sánchez; 80 over Bériz (BI) Sergio González; 15 over Toro (ZA) Martín Rodríguez, José Barrueso; 114 over Feria (BA) Álvaro Rodríguez; 700 at El Hito lagoon (CU) José A. Montero; 1 at Atapuerca lagoon (BU) Eduardo Alfaro, Marc Baños; 120 at La Loteta reservoir (Z) Fede Sancho; 1 at Entinas Point (AL) Teresa de Miguel; 150 over Cádiz Bay, Fernando Portillo; heard at Fuente de Cantos (BA) José L. Bautista; 106 over Sureste natural park (M) Luis M. Pérez; 27 over

Madrid, Marcos Rodríguez; 247 in Villafáfila nature reserve (ZA) Gary Losada; 93 over Cuenca, Susana B.; 28 over Aldeaseca (AV) Víctor Coello; 3 at Sancti Spiritus (SA) Myriam Palomo; 18 over Pedraza de Campos (P) Francisco J. Calvo; 15 at La Zolina reservoir (NA) Haritz Sarasa; 7 over Mas de Barberans (T) Miguel Recreo; 4 at S'Albufera natural park, Mallorca (IB) Josep Manchado, Biel Bernat; 52 at Tito lagoon (CU) Andrés Pinedo; 21 over Villacañas (TO) Diego Llorente; 2 over Corral de Calatrava (CR) Francisco Hidalgo; 1,000 roost at Riobobos weir (SA) Miguel Rouco; 1,554 roost at Sotonera reservoir (HU) Francisco Quesada.



Image nº 41: Flock of cranes at Valdehornillos (BA). Photo: José A. Román

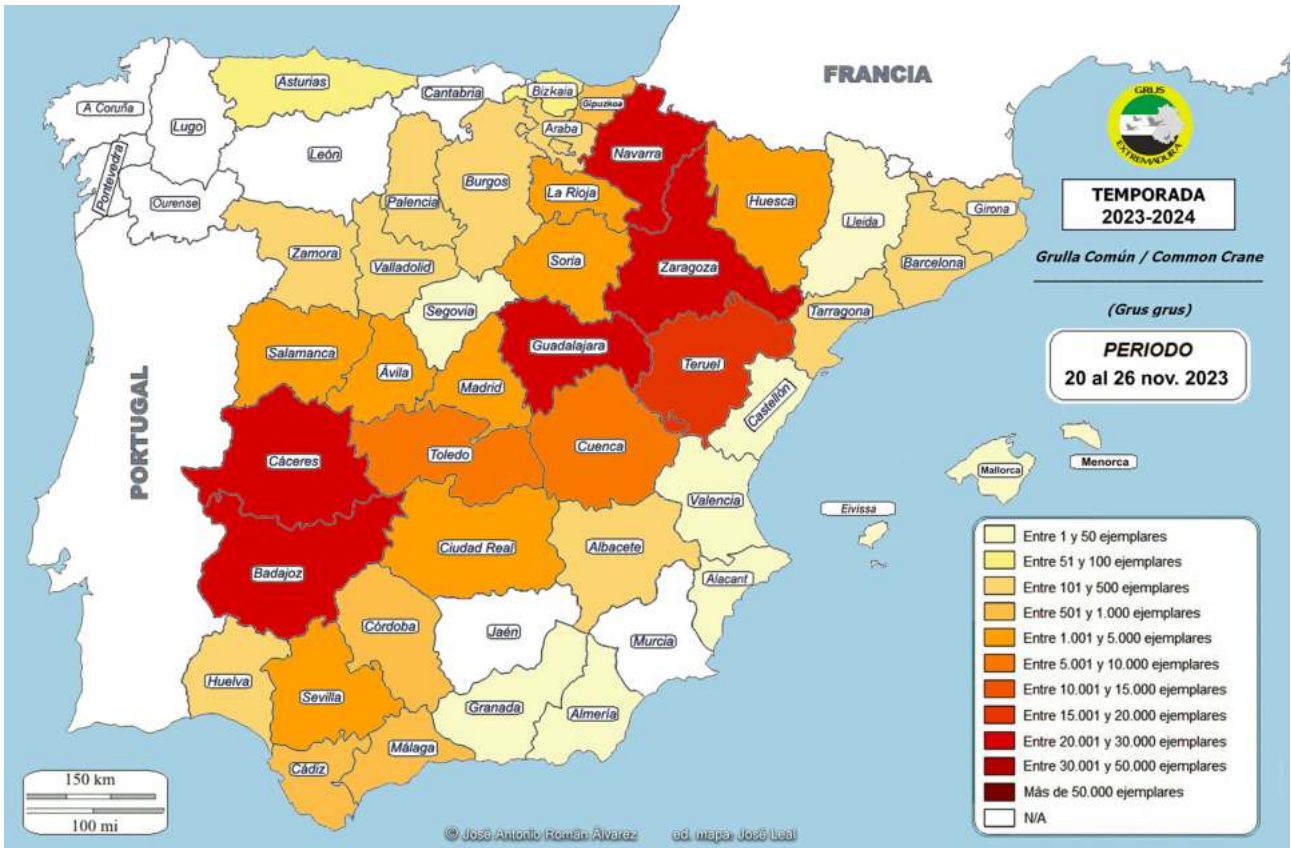
-25/11/23: 1 at Atapuerca lagoon (BU) José M. Devesa, Edurne Nazabal, Roberto Calleja; 344+ at Arroconejos reservoir (BA) Joaquín Vázquez; 30 over Retuerta del Bullaque (CR) Gerardo García; 56 at Hoyo de la Cruz, Bujaraloz (Z) Conchi Esteban; 30 at El Cañizar lagoon (TE) Arnau Guardia; 11 over the River Arba (Z) and 19 at Ejea de los Caballeros (Z) Javier López; 100 at El Hoyo lagoon (AV) Vicente G. Garrudo; 500 at Pina de Ebro (Z) Francisco Quesada, Javier Lera; 1,595 at Sotonera reservoir (HU), a leucistic crane amongst them, Silvia Duque, Francisco Quesada; 350 at Camino lagoon, Villafranca (CR) Vicky García; 20 over Proserpina reservoir (BA) Juan A. López; 360 at Azuaga (BA) Miguel Corvillo; 7 over Badajoz, Mariano Cabrero; 21 over Agudo (CR) Raquel Ramiro; 101 over Alange reservoir (BA) Juan A. López; 1,000 at Palacio Quemado, Almendralejo (BA) Pepe Elías; 4 over Almendralejo (BA) Antonio M. Sánchez; 66 in dehesas at La Aldea del Obispo (CC) Neil Renwick; 54+38 over Espinoso del Rey (TO) Antonio Honorato; 21 over Puerto Mejoral, Benquerencia de la Serena (BA) Francisco Lopo; 10,000 at

Gallocanta lagoon (Z/TE) José M. Pueyo, Antonio Torrijo; 700 in Doñana National Park (SE) Francisco J. Salcedo; 45 at Castellò d'Empúries (GI) Jordi Guiu; 100 over Sant Pere Pescador (GI) Eloi Iglesias; 50 over l'Ametlla del Vallès (B) Emiliano Ramos; 7 over Tarifa (CA) Lucía Sánchez; 415 at La Janda (CA) Guillermo Piñal; 578 at El Hito lagoon (CU) Antonio Paredes; 23 over San Juan del Puerto (H) Francisco Rivas; 4 over El Sapo lagoon (SE) José Jiménez; 14 at Son Reus, Mallorca (IB) Dani Zamora; 72 at Pueblonuevo del Bullaque (CR) (CR) Manu Santa-Cruz; 10 over Villarta de San Juan (CR) Carlos Amores; 99 at Alcázar de San Juan (CR) David Pasos; 400 at Tirez lagoon (TO) Alba Becerra, María Fernández; 57 at Tito lagoon (CU) Andrés Pinedo; 1 at Estany d'Ivars (LL) Quim Minoves; 8 over Torreribera (LL) José Guerra, Marc Gálvez; 350 at Dos Reinos lagoon (NA) Javi Sola, Jon Sola; 3 at Loza reservoir (NA) Alberto Rodríguez; 2 at Alba lagoon, Villeguillo (SG) Eduardo de Andrés, Miguel A. García; 14 at Monteagudo de las Vicarías reservoir (SO) Gregorio Chaguaceda; 13 over Tardajos de Duero (SO) Eduardo Alfaro, Juan P. del Álamo; 5 over Zamora, Amador Vázquez; 10 at Peraleda de la Mata (CC) Maribel Gutiérrez; 22 over Villar del Infantado (CU) Ángel Arellano; 1,000 at Riolobos weir (SA) Ángel Mendoza; 606 roost at Fuente de Piedra lagoon (MA) Javier Fregenal; heard over Pamplona (NA) at 21:00h, Diego Zalbidea; 500 in rice fields at Cinco Villas (Z) Juan González; 78 in rice fields at Arguedas (NA) Ricardo Rodríguez, Jesús M. Lekuona; 236 at Valdecañas reservoir (CC) Javier Prieta; 750 at Madrigalejo (CC) Antonio Méndez, Ángel L. Méndez; 889 roost at El Hoyo lagoon (AV) Arón Blázquez, Juan R. Cuervo;

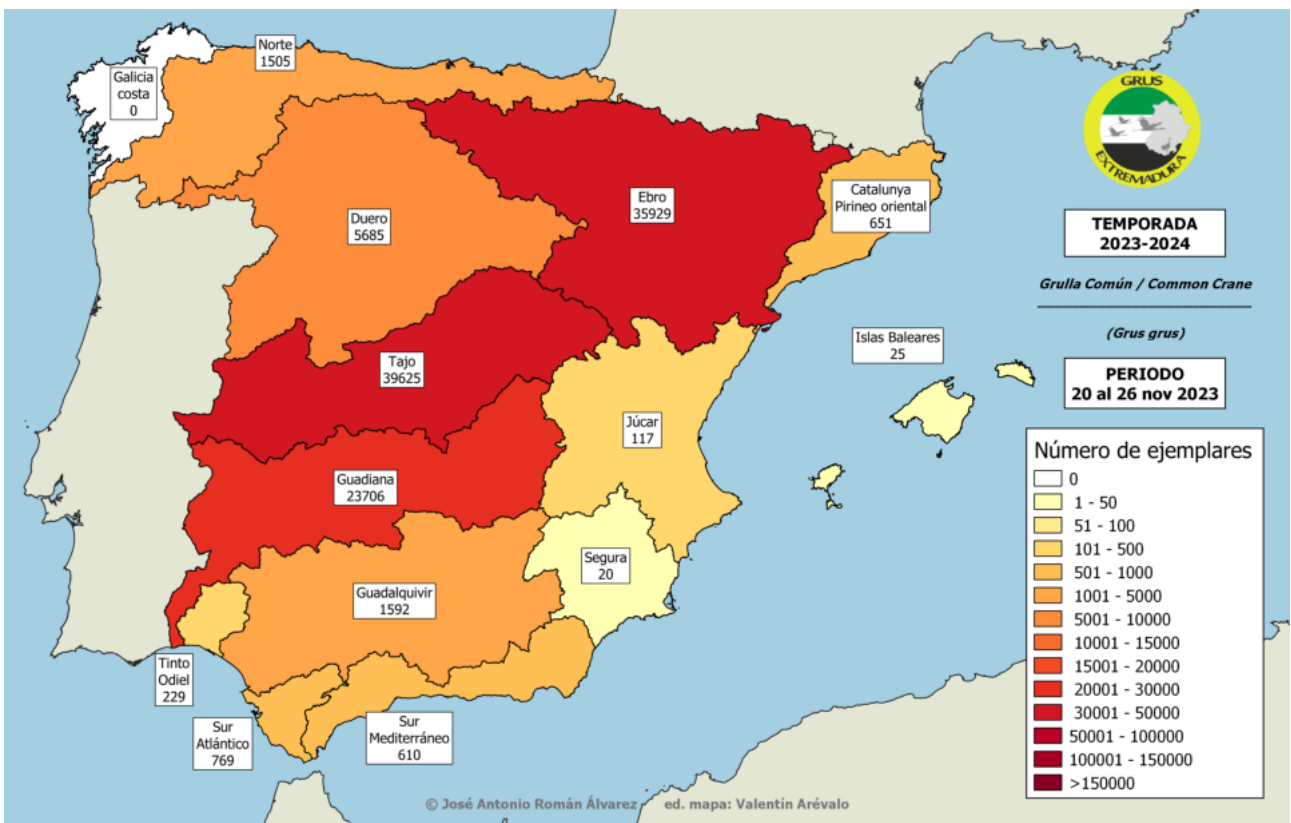


Image nº 42: Leucistic crane near Sotonera reservoir (HU) Photo: Silvia Duque

-26/11/23: passage over Guadalajara at 04:38h, Juan M. Nuevo (DALMA); also at 07:07h, Ana Herrero; 10,000 at Gallocanta lagoon (Z/TE) José M. Pueyo; 108 at Pétrola lagoon (AB) Fernando Rico; 4 over Alfaro (LR) Miguel Martínez; 15 at Sant Jaume de Enveja (T) Harold Witjts; 2 over Garriguella (GI) Máxime Pastore; 21 at Castelló d'Empuries (GI) Eloi Iglesias; 21 over Torelló (B) Romina Mesón; 55 over Jarandilla de la Vera (CC) Sofía Moreno; 12 over Mérida (BA) Juan A. López; 8+113+34+25 over Tudela (NA) Alberto; 120 over Galacho de la Alfranca (Z) Fede Sancho; 14 over Madrid, Benigno Varillas; 10 at Herreruela (CC) Antonio Galán; 38 over Fuenlabrada (M) Alfredo Mirat; 9 at Los Blázquez (CO) Marga Martín; 17 at La Roca de la Sierra (BA) Francisco J. Caballero; 115 over Villar del Infantado (CU) Ángel Arellano; 59 over El Carrascalejo (BA) Agapito J. Verde; 42 over Sepúlveda (SG) Jorge Leonor; 22 over Aljucén (BA) Agapito J. Verde; 80 at Alcañiz salt flats (TE) Francisco Quesada; 50 over Chiloeches (GU) Carlos Arroyo (DALMA); 100 over Arnedo (LR) Yolanda Hernández; 743 in rice fields at Grañén (HU) Eduardo Gracia; 300 at Arroyoconejos reservoir (BA) Miguel Corvillo; 14 over Marchamalo (GU) Isabel & Fernando, Carlos Campos; 58 over Jirueque (GU) Peina (DALMA); 257 over Baztán (NA) Xabier Etxarri; 120+70+150+200 over Mendigorria (NA) Jan Wierda; 26 at Deltebre (T); Xesco Puigdomenech; 1 at Sant Jaume d'Enveja (T) Jana Marco; 10 over Osís (B) Susagna Crosas; 21 over Torelló (B) Romina Mesón; 22 over Vic (B) Miguel A. Paja; 10 over Rindellots de la Selva (GI) Antoni Mariné; 15 over Samalús (B) Artur Morales; 27 over Cogeces del Monte (VA) Rocío GO; 9 over Fontiveros (AV), 9 over Crespos (AV) and 13 over Salvadios (AV) Víctor Coello; 10 over Riocabado (AV) Juan Ruíz; 150 at La Nava lagoon (P) Francisco J. Calvo; 78 over Lónguida (NA) Itziar Almarcegui; 61 over Olite (NA) Asier Cáceres; 68 over Ricla (Z) Javier Train; 7 in rice fields at Valmuel (T) and 75 at the Alcañiz salt flats (T) Miguel A. Pardo; 67 at Sariñena (HU) Eduardo Gracia; 2 on the Llobregat delta (B) Pep Arcos; 9 in Els Moros marsh (V) Jesús Carrión; 26 at Brazo del Este (SE) Brian Condori; 16 at Gasset reservoir (CR) Fernando Pérez; 15 at Camino lagoon, Villafranca (CR) Chemi Ibáñez; 1,000 at Tirez lagoon (TO) Chemi Ibáñez; 9 over Soto del Río Escobas (CU) Fernando Alonso; 2 at Pedrezuela reservoir (M) Laura Álvarez, Marcos Rodríguez; 20 at Santillana reservoir (M) Enrique Villaespesa; 5 at Jarosa reservoir (M) Francisco Vizcaíno; 20 over Daganzo de Arriba (M) Jorge Díaz; 3 over Villanueva de la Cañada (M) Juan C. Paniagua, Juan C. Hidalgo; 100 over Camarna de Esteruelas (M) Óscar Oeo; 23 over Quer (GU) Amparo López; 16 over Rivas Vaciamadrid (M) Blas Molina; 7 over Madrid, Albin Sáez; 12 over Borox (TO) Miguel García; 2 at Portaje reservoir (CC) Juan A. García; 17 over Malpartida de Cáceres (CC) Francis Martín; 7 over Rincón de Ballesteros (CC) Alberto Pitarch; 26 at Villar del Rey (BA) Jj Carreira; 250 at Campillos lagoon (MA) Juan de la Cruz; 54 over Fuenlabrada (M) Paula González; 24 over Madrid, Juan C. Rubio; 1,176 over Pamplona (NA) Rajen Ayerra; 150+120 over Arnedo (LR) Yolanda Hernández; 90+150 over Ribavellosa (LR) David; 45 over Moncalvilla (LR) Alvar A.; 90 over Albeldade Iregua (LR) José L. Gabela; 30 over Carrascal de Villaroya (LR) Andrés; 50 over Entrena (LR) Luis Gabela.



Map nº 19: Distribution and migration by provinces between November 20 and 26



Map nº 20: Distribution and migration by catchment areas between November 30 and 26

A week of change, in which cranes spread out and settle in their wintering quarters, while migration slows down.

-27/11/23: 1,460 roosted at Alange reservoir (BA) José A. Román; 4 over Villamediano de Iragua (LR) Conchi Pavía; 20 at Guijuelo (SA) María J. Benítez; 5 over Pina de Ebro (Z) and 300 at Galsa (Z) José Lera; 100 over Cabanillas del Campo (GU) Fernando Canalejas (DALMA); 20 over Santa Eulalia (TE) Eva Gascón; 60 over Valverde de Mérida (BA) Jesús Valiente; 449 at Villagonzalo (BA) José A. Román; 100+80+118 over Cabanillas del Campo (GU) Fernando Canalejas, José M. Gómez, José Calvo (DALMA); 6 over Écija (SE) Javier Rengel; 230 at Santa Teresa reservoir (SA) Vicente G. Garrudo; 113 over Ejea de los Caballeros (Z) Javier López; 26 over Toledo, Joaquín; 20 over Madrid, Carlos Rodríguez; 229 at Gerindote (TO) Juan Fernández-Elipe, Marcos Ansón; 18 over Belinchón (CU) René A. Priego; heard at Canet d'Adrià (GI) Ricard Busquets; 35 at La Nava lagoon (P) Francisco J. Calvo; 2 at Villeguillo lagoon (SG) Edurne Narzabal, José M. Devesa; 448 at El Hoyo lagoon (AV) Víctor Coello; 6 over Lagartera (TO) César Clemente; 80 at Campazo lagoon, La Aldea del Obispo (CC) Neil Renwick; 25 at Valdecañas reservoir (CC) Seppo Hjerppe; 58 over Portiño reservoir (TO) Javier Gordillo; 20 at Santillana reservoir (M) Lidia Ramallo; 196 at La Nava lagoon (P) Francisco J. Calvo; 11 over Sant Vicenç dels Horts (B) Marcos Martín; 150 over Camarna de Esteruelas (M) Óscar Oeo; 15 over Alcalá de Henares (M) Marcos Rodríguez; heard at Majadahonda (M) Rafael Hidalgo; 76 over Villanueva del Pardillo (M) Mariajo Caballero; 10 over Ses Salines, Ibiza (IB) GOB.; 29 over Hinojosa (CU) Nelson Mesonero; 47 over Griñón (M) M^a Victoria Cabañas; 4 at Lechago reservoir (TE) Gonzalo Peña; 49 at Rodrigo lagoon (SG) Edurne Narzabal, José M. Devesa; 700 at El Hoyo lagoon, El Oso (AV) Jorge Leonor; heard at San Pedro del Arroyo (AV) Joaquín Mayo; 16 at El Cañizar lagoon (TE) Pablo Moya.

-28/11/23: 1 over Sevilla, José L. Tella; 7 over Zaragoza, Héctor Pinilla; 16 over El Puente del Arzobispo (TO) Naomí Sardinero (ARDEIDAS); 1 over Feria (BA) Agentes de Medio Ambiente; 3 at El Hondo reservoir (A) Tandy de Boer; 38 in rice fields at Tauste (Z) José M. Sánchez; 500 in Villafáfila nature reserve (ZA) Christien Dhoore; 4 in Sa Albufereta nature reserve, Mallorca (IB) Delphine Lacuisse; 118 at Alcañiz salt flats (TE) Juan L. Muñoz; 1,000 at Tirez lagoon (TO) Enrique Villaespesa; 3 at La Veguilla lagoon (CR) Martin Kelsey; 56 at Tito lagoon (CU) Andrés Pinedo; 16 over Tornadizos de Arévalo (AV) Víctor Coello; 450 at La Loteta reservoir (Z) José M. Sánchez; 1 on Columbretes Islands (CS) Vicente Tamarit; 120 at Moguer (H) Juanjo Cipriano; 28 over Huarte (NA) Ángel Larumbe.

-29/11/23: 12,700 at Gallocanta lagoon (Z/TE) Antonio Torrijo; 134 over Marcen (HU) Eduardo Gracia; 3 over Pina de Ebro (Z) Javier Lera; 32 over Villalba de los Barros (BA) Juan G. Miranda; 34 over Zaragoza, Josean Domínguez; 220 at Salicor lagoon (CR) Juan Calonge; 80 over San Vicente de la Sonsierra (LR) Jorge Alonso; 16 over Toledo, Joaquín (DALMA); 5 over Talavera de la Reina (TO) Marisa Hoyos (ARDEIDAS); 870 at Villagonzalo (BA), 447 at Yelbes (BA); 440 at Alonso de Ojeda (CC) and 3,587 at Valdehornillos (BA) José A. Román; 12 over Rielves (TO), 67+270 over Gerindote (TO) Marco Ansón; 90 at Castellò d'Empúries (GI) Ramón Aguilar; 26 over Sitges (B) Xavier

Elizondo, Eric Mazas; heard at Llicà d'Amunt (B) Toni Aparicio; 115+60 over Santa María de Palautordera (B) Miguel A. Benedicto, Andreu Ubach; 9 at El Hondo reservoir (A) Toni Zaragoza, 100 at Grande lagoon, Villafranda (TO) Roberto Mayo; 8 in Sa Albufera nature reserve, Mallorca (IB) Delphine Lacusse; 100 at Dos Reinos lagoon (NA) and 300 at Pitillas lagoon (NA) Jon Sola; 120 at Las Salinas lagoon, Villafáfila nature reserve (ZA) José M. San Román; 14 over CRSU, Zamora, José Barrueso; 1 over Viladecans (B) Luis Miranda; 24 at Lagartera (TO) César Clemente; 49 over Utebo (Z) Pablo Monroy; 800 at Caño del Guadiamar, Doñana National Park (SE) Fernando del Valle, Ricardo Martín-Baylo, Mario Martín; heard at Cabanillas (NA) María Calahorra; 250 at Villacañas (TO) José A. Calvo; 1,142 at El Hoyo lagoon (AV) Chema García; 1,000 go to roost at Manjavacas lagoon (CU) Jesús Porrero; 4,326 gather in three roosts around Santa Amalia (BA) José A. Román.



Image nº 43: Crane on the Columbretes Islands (CS). Photo: Vicente Tamarit

-30/11/23: 136 over Alange (BA) José A. Román; 50 at Los Blázquez (CO) Marga Martín; 66+24 leave Hoyo de la Cruz (Z) Conchi Esteban; 18 over Torrejón de la Calzada (TO) René A. Priego; 10 at El Pas reservoir (HU) Alberto Gasquet; 19 at Hinojosa del Duque (CO) Juan F. Flores; 1,388 at La Janda (CA) Rafael Gracia; 192 over Villaverde y Pasaconsol (CU) Eva López; 2 over Sils (GI) Carlos Tobella; 880 at El Hoyo lagoon (AV) Víctor Coello; 2,394 go to roost at Manjavacas lagoon (CU) Luis Sánchez; 69 go to roost at Lechago reservoir (T) Antonio Torrijo; 12,153 at Gallocanta lagoon (Z/TE) S.A.R.G.A.;

1,000+ roost at La Janda (CA) José M. Lubián; 22 at Campofrío pond, Alcántara (CC) Fernando Sánchez.



Image nº 44: Cranes at Caño de Guadiamar, Doñana National Park. Photo: Mario Martín

-01/12/23: 67 at Hoyo de la Cruz (Z) Conchi Esteban; 120 over Ejea de los Caballeros (BA) Javier López; 1,300 at Villar de Rena (BA) Julián Cendrero; 50 at Castellò d'Empúries (GI) Raúl Calderón; 10 at Cantalpino (CU) Juan Ruíz; 400 at San Salvador reservoir (HU) Jesús Lavedán; 6 over Zizur (NA) Juan P. Azkoaga; 50 at Monroy (CC) Rene v. Linden; 140 at Aznalcázar (SE) Fernando Portillo; 200 at La Serena reservoir, Capilla (BA) and 46 at Cabeza del Buey (BA) Alan Troyer; 14 at Don Benito (BA) and 47 at Miajadas (CC) Álvaro García; 36 at Belén (CC) and 150 at Magasca (CC) Jesús Porras (Iberian Nature); 3 at Valdesalor reservoir (CC) Simon Harvey; 120 at Aldea del Cano (CC) and 12 at Malpartida de Cáceres (CC) Francis Martín; 130 at Plasencia (Cáceres) Silvia Duque, Antonio Torrijo; 189 at Riobos weir (SA) Antonio Ceballos; 10 at Cantalpino (SA) Juan Ruíz; 288 in Villafáfila nature reserve (ZA) Gary Losada; 2 in Almenara marsh (CS) Pascual Monferrer; 13 at Salobrejo lagoon (AB) Lucas de las Heras; 13 at Pétrola saline lagoon (AB) Fran Gómez; 750 at Alcázar de San Juan (CR) Alan Troyer; 3 at Corral de Calatrava (CR) Francisco Hidalgo; 150 at Veta el Hornito, Doñana National Park (SE) Fernando Portillo.



Image nº 45: Cranes at La Janda (CA). Photo: Rafael Gracia

-02/11/23: Family group with 1 juvenile at El Hondo reservoir (A) Susana Noguera; 13 in rice fields at El Pas (HU) Jorge Lardiés; 700 at San Salvador reservoir (HU) Jorge Lardiés, Aitor Mora, Jesús Lavedán; 150 over Rica (Z) Esther Charles; 50 over Villarrubia de los Ojos (CR) Juan A. Santos; 67 at Las Seguras (CC) José M. Rojo; 40 at Castellò d'Empúries (GI) Daniel Pérez; 1 at Sant Boi del Llobregat (B) Enric Marrodán; 600 at Yelbes (BA) Francisco Benítez; 8 at Abertura (CC) Peter Heinrich; 326 at Cubilar reservoir (CC) Silvia Duque, Antonio Torrijo; 150 roosted in rice fields at La Raña, Navalvillar de Pela (BA) José L. Bautista; 70 at Calera y Chozas (TO) Pedro Vázquez; 200 at Lugar Nuevo pond (CC) Vicente Risco; 370 at La Bazagona (CC), 20 at Casatejada (CC) and 6 at Saucedilla (CC) Hugo Sánchez; 2 over Arrocampo reservoir (CC) José de Souza, Christy Esmahan; 210 at Rincón reservoir (TO) and 5 at Arenas de San Pedro (AV) Luis J. Martin, Alfonso García, Miguel Martín; 451 at Rosarito reservoir (TO) Daniel García; 48 at Navaseca lagoon (CR) José L. Béjar; 5,000 in Tablas de Daimiel National Park (CR) Pau Ortega; 500 at Tirez lagoon (TO) José A. Sánchez, Jorge García; 1,000 at Villacañas (TO) Celestino González; 15 at Pedrezuela reservoir (M) Robert Wilson; 31 over River Piedras gorges (Z) Diana Ferris; 5 over Galachos de la Alfranca (Z) Dani Falomir; 30 over Zaragoza Elena Cantalapiedra; 1 at Almenara (SG); 26 at Campiñas de Cervillejo (VA) Antoni Fernández; 500 at Ruecas (BA), 116 over River Ruecas (BA) and 350 in rice fields at Hernán Cortés (BA) José A. Román, Luis Asuar; 100 at Chica lagoon and 16 at Grande lagoon, Villafranca (TO); 296 in Villafáfila nature reserve (ZA) Juan J. González, Miguel G.M.; 13 at Socarrada, Sueca (V) Toni Polo; 150 at Pétrola (AB) Lucas de las Heras; 136 at El Cañizar lagoon (TE) Esther Yera, Juan L. Muñoz; 2 at Boada de Campos lagoon (P), Ludovico de Vega; 300 at La Nava lagoon (P) Carmelo García; 1,500 at Riolobos weir (SA) Ángel González; 7 at Membribe de la Sierra (SA) Rubén Sánchez; 15 over Pedrezuela reservoir (M) Robert Wilson; 4 in the Navahermosa countryside (MA) Derek Etherton; 200 at La Fresnedilla pond, Oliva de Plasencia (CC) Víctor Torres; 11 over Daganzo de Arriba (M) Alan Troyer; 63 over Nuevo Baztán (M) Juan C.del Moral; 2 over

San Fernando (CA) Rick Loperoski; 2,000 at Salicor lagoon, Campo de Calatrava (CR) Juan Calonge; 1 at La Cuerda reservoir, El Pozo (SO) Juan L. Hernández; 14 at Salburua (AR) Julen Santa Cruz; 200 over Pamplona (NA) Patxi Andueza; 1 over Alguerri-Balaguer (LL) Quim Minoves; 450 roost in Cabriles y Friegamuñoz stream (BA) Mariano Cabrero.



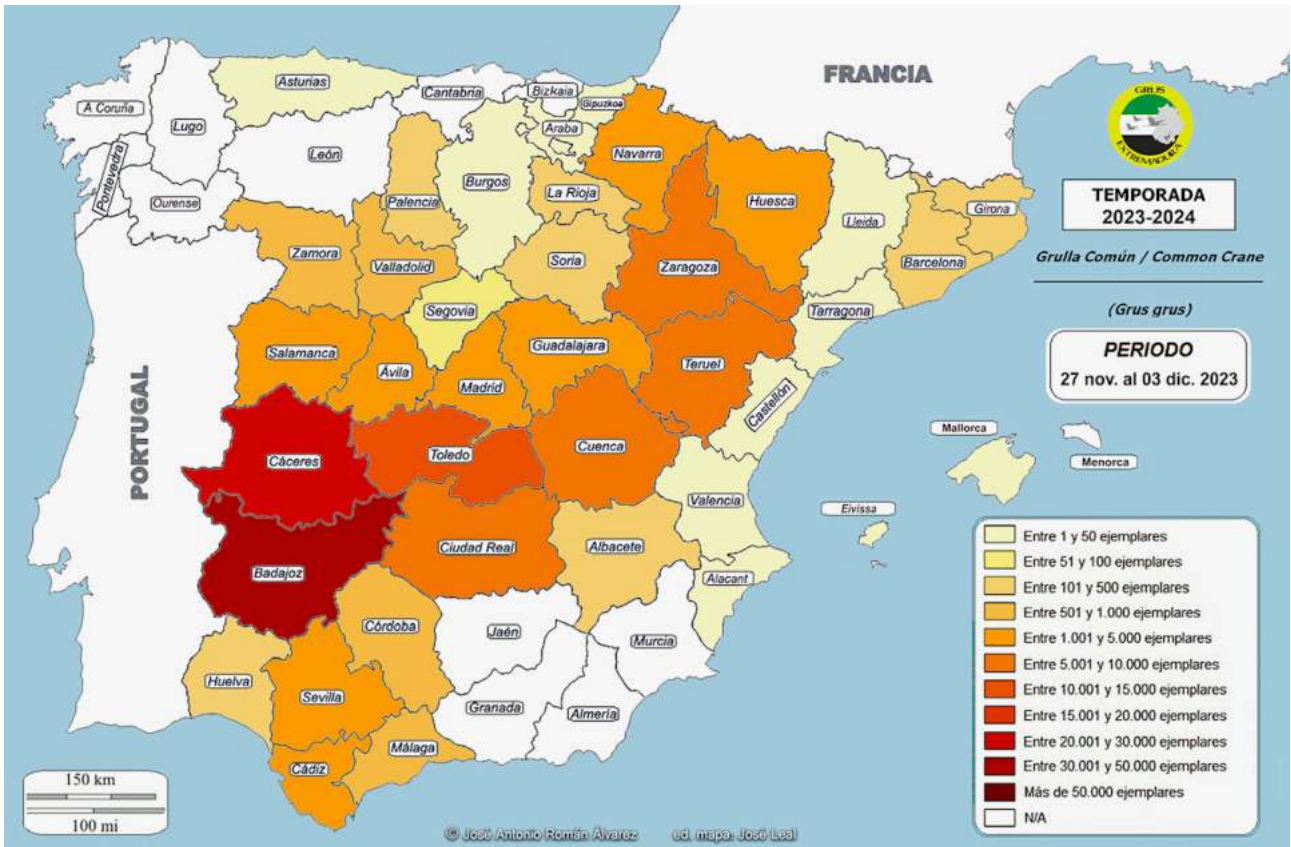
Image nº 46: Family group at El Hondo reservoir (A). Photo: Susana Noguera

-03/12/23: nocturnal passage over Abad (HU) at 22:59h, Daniel Barceló; 6 over Pamplona (NA) Rajer Ayerra; 2,000 around Sotonera reservoir (HU) Francisco Quesada; 20 over Quer (GU) Fernando Gómez (DALMA); 90 over Guadalajara, José M. Gómez (DALMA); 50 over Barajas airport (M) Yolanda Díez; 29 over Mirandilla (BA) Mariano Cabrero; 11 over El Puerto (CO) Marga Martín; 7 arrive at Bujaraloz (Z) Conchi Esteban; 49 over Valdemoro (M) Fran Baena; 90 over Baztán (NA) Xabier Etxarri; 100 at Castelló d'Empúries (GI) Orió Cabrero; 23 over Irún (G) José F. Esparcia; 10 over Los Llanos (MA) Hans Galjaard; 1 over Almedralejo (BA) Francisco Macías; 36 over Montijo (BA) Arturo Pérez; 12 at Villar de Plasencia (CC) Vicente Torres; 51 at Jaraíz de la Vera (CC) and 24 at Majadas de Tiétar (CC) Hugo Sánchez; 36 over Aranjuez (M) José A. Sánchez; heard over Fuenlabrada (M) Beatriz Bermejo; 8 over Leganés (M) Daniela Secas; 4 over Somosaguas (M) Francisco Wandosell, Mónica Casado; 30 over Madrid, G.Bar; 81 over El Retiro (M) Rafa Al, Ángel L. Neira, Joan A. Ximenis; 22 over Valdebebas (M) Juan C. Hidalgo, Elvira Baonza; 6 over Colmenar Viejo (M) Robert Wilson; 17 over Collado Villalba (M) Mauricio García; 10 over Madrid, Julia Sánchez; 7 over Galapagar (M) Gonzalo Bel; 15 over Guadarrama (M) Mark Davis; 38+6 over Daganzo de Arriba (M) Diego Chamizo, Félix Arribas, Juanma Santana, Carla Culebras; 36 over Camarma de Esteruelas (M) Óscar Oeo; 70 over Alcalá de Henares (M) Daniel Araque; 3 over Pedralba de la Pradería

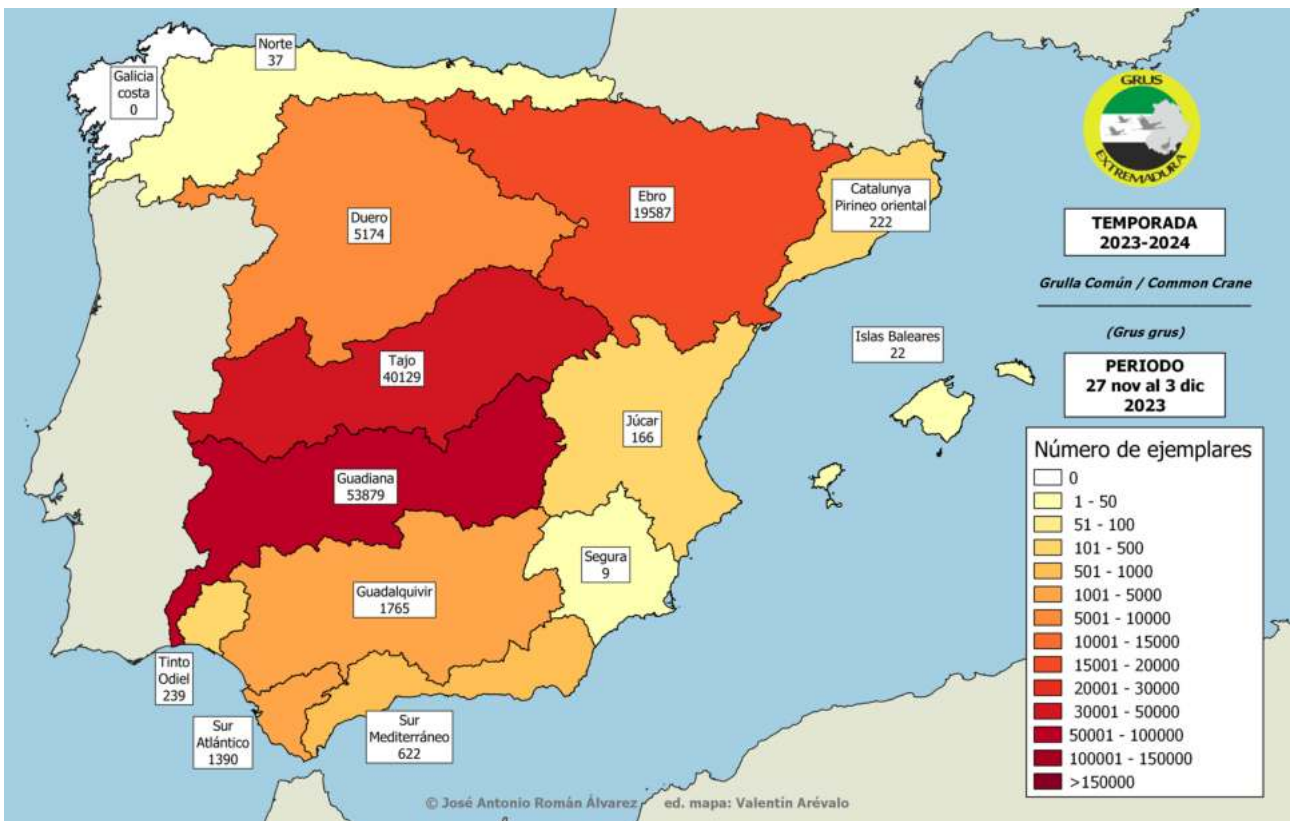
(ZA) Manuel Segura; 7 in the Alcudiva valley (CR) José M. Molina; 1,000 over Trillo (GU) Sofía García, Patricia Sánchez; 3 at Silo lagoon (CU) Andrés Pinedo; 122 over Guadalajara, Crix; 3 at Grande lagoon, Quero (TO) David Pasos; 6 over Villacañas (TO) José L. Arroyo, García de los Ríos; 79 over the River Blanco (SO) Juan L. Hernández; 300 at Villoruera (SA) David Hernández, Guillermo Riso; 3 over Toro (ZA) Martín Rodríguez, Manuel Rodríguez; 270 over Fuenjalón (Z) Livia López; 84 over Nuévalos (Z) Ángel Gonzalo; 4 over Burgos, Arturo Fuente; heard at Sumbilla (NA) Aimar Hernández; 2 over Lasarte-Oria (NA) Julen Vega; 67 over Velilla de San Antonio (M) Álex de Dios, Sara Navarro; 18 over Villadelprado (M) Miguel Folgado; 38 over Villarrubia de los Ojos (CR) Juan A. Sánchez; 10 over Mérida (BA) José M. Rojo; 27 in rice fields at Grañen (HU) Eduardo Gracia; 25 at Sasa de Abadiano (HU) Jorge Lardiés; 218 at Aldea de Cuenca (CO) Miguel Corvillo; 532 at Zapardiel (VA) Antonio Fernández; 1 at Cape Peñas (AS) Manuel A. García; 27 over Ultzama (NA) Jorge Nubla; 400 at Loza reservoir (NA) Gaspar Zaldúa; 40 over Pamplona (NA) Manuel Fernández; 2 at La Mueda reservoir (NA) Jorge Nubla; 70 at Dos Reinos lagoon (NA) Teresa Subiza; 23 over Alfaro (LR) José R. Martínez; 7 at Linares De Arroyo reservoir, Maderuelo (SG) Víctor Salvador; 3,200 roost at Monteagudo de las Vicarías reservoir (SO) Juan L. Hernández; 1,106 roost at El Hoyo lagoon (AV) Chema García.



Image nº 47: Crane at Peñas cape (AS). Photo: Manuel A. Suárez



Map nº 21: Distribution & migration by provinces between November 27 and December 3



Map nº 22: Distribution and migration by catchment areas between November 27 and December 3

A week with few migratory movements, predominantly internal

-04/12/23: 20 over Villanueva del Pardillo (M) Patricia Alonso; 17 over Marchamalo (GU) Carlos Campos (DALMA); 300 at Las Mesas (CU) Esther Charles; 760 around Dulce lagoon, Campillos (MA) Javier Fregenal; 1 S'Albufera, Mallorca (IB) Toni Soler; 20 in dehesas at La Nava de Santiago (BA), 32 in dehesas at Villar del Rey (BA) and 4 at Prado de Lácara (BA) Silvia Duque, José A. Sánchez, Antonio Torrijo; 3 at Longar lagoon (TO) Antonio Mansilla; 60 over Madrid, José M. Paraiso; 34 over Talavera de la Reina (TO) Alejandro Sanz; 3 at Peraleda de la Mata (CC) Ana López; 5 over Ería (HU) Héctor Pinilla; 40 over Peñaranda de Duero (BU) Rubén Ramos; 40 over Toledo, Ángel Velasco, SEO-TO; 39 over Atienza (GU) Joaquín (DALMA); 4 in L'Albufera natural park (V) Virgilio Beltrán; 17 at a pond, Alcañiz (TE) Dani Falomir; 7 over Terrassa (B) Carles León; 3 at Gurrea de Gállego (HU) Héctor Pinilla; 20 in rice fields at Tauste (Z) Elena Cantalapiedra; 74 at Monteagudo de las Vicarías reservoir (SO) César Díez; 220 at Molino de la Hoz reservoir (M) Carmen Serralle; 600 at Villacañas (TO), 150 at a seasonal lagoon at Villacañas (TO) Álvaro Nicolau; 6 at Torremayor (BA) Arturo Pérez; 27 over Alcalá de Henares (M) Vicky García.



Image nº 48: Swedish family at Vegas Altas (BA). Photo: Manuel Maximiano

-05/12/23: 109 at Alcubilla de las Peñas (SO) Juan L. Hernández; 65 over San Fernando de Henares (M) Esther Murciano; 200 at Campillos lagoon (MA) Ángel Arellano; 100 over Marchamalo (GU) Carlos Paulos (DALMA); 170 over Cabanillas del Campo (GU) Cristina Ruíz (DALMA); 50+120 over Guadalajara, Javi Calvo (DALMA); 200+53 over Villaviciosa de Odón (M) and 26 over Móstoles (M) Paula González; 43 over Talavera de la Reina (TO)

Manuel Salcedo (ARDEIDAS); 134 over Guadalajara, José M. García, Fernando García (DALMA); 110 over Illescas (TO) Chon Conde; 70 over Griñón (M) M^a Victoria Cabañas; 31 at Castellò d'Empuries (GI) Norbert Willaert; 80+86+92 over Méntrida (TO) René A. Priego; 3 at Gascueña (CU) Nelson Mesonero; 39 over Arrocampo reservoir (CC) René V. Linden; 31 at Quintana de la Serena (BA) Luis Gómez; 12 at Sa Pobla, Mallorca (IB) Álex; 35 over Gaganejos (GU) and 50 over El Frasnó (Z) Alfonso Guío; 27 over Villanueva del Pardillo (M) Mariajo Caballero; 27 over El Pardo (M) García de los Ríos; 21 over Coslada (M) Fernando Ávila; 50 over Velilla de San Antonio (M) José M. Sendarrubia; 30+70+33+53+50 over Madrid, Christophe Pontegnie, Robert Wilson, Patricia Orejas, Jannick Forquignon, Johnathan Dadds; 70 over Zarzaquemada (M) Mario Liarte; 148+71 over Leganés (M) Félix Arribas, Raúl Pérez; 8 over Jerte reservoir (CC) and 2 over Casas del Castañar (CC) Javier Prieta; 50 at Mengabril (BA) Antonio M^a Sánchez; 6 at Pueblonuevo del Guadiana (BA) José L. Bautista; 83 over San Lorenzo de Flúmen (HU) Eduardo Gracia; 20 over the University of Madrid, Santi; 11 over Guadalix de la Sierra (M) Tino; 609 at Campillos lagoon (MA) Javier Fregenal; 53 at Las Merinillas pond, Valverde de Leganés (BA) José L. Vinagre; 2 over Santisteban del Puerto (J) Toni Pons; 30 over Castellò d'Empúries (GI) Olga Gairin; 100 over Parla (M); 100 at Rielves (TO) Carlos Arenas; 600 at Vega de Zarzalejos, Logrosán (CC) Neil Renwick; 3,500 Palancoso lagoon (CC) Vicente Risco; 300 roost at Cuncos reservoir, Villanueva del Fresno (BA) Silvia Duque, José A. Sánchez, Antonio Torrijo.



Image nº 49: Cranes over Leganés (M). Photo: Raúl Pérez

-06/12/23: 27 over Alcalá de Henares (M) Vicky García; 200+15+15 over Villarrubia de los Ojos (CR) Juan A. Sánchez; 46+28 over Tudela (NA) Alberto; 13 over Mérida (BA) Juan A. López; 78 over Arnedo (LR) Michel Marín; 180 over Cervera (LR) Roberto Vega; 12 over Ebro reservoir, Campo de Yuso (CT) Beatriz García; 13 at Castellò d'Empúries (GI) Alfons Villagrasa; 16 at Mesas de Asta (CA) Luis López; 3 in River Tinto marsh (H) Adelino García, Juan A. Domínguez; 11 in Almenara marsh (CS) Freddy Rivas; 140 over Erga mountain (NA) Cuevas Ruíz; 50 over Alzuza (NA) Javier Sanz; 60 over Pamplona (NA) and 180 over Zizur Mayor (NA) Gorka Gorospe; 900 at Villacañas (TO) and 65 at Larga lagoon, Villafranca (TO) David Guillén, Luis Bello; 20 at Camino lagoon, Villafranca (CR) Miguel A. García; 8 at La Veguilla lagoon (CR) Ignacio Blanco; 250 in rice fields, River Zancara (CR) Miguel A. García; 300 at El Hito lagoon (CU) Luis Tárrega; 20 at Pétrola saline lagoon (AB) Nando Rivero; 382 at Cubillos del Guadarrama (TO) Luis M. Pérez; 40 over Sacedón (GU) Javi Rejos; 120 over Ugena (TO) Conchi Conde; 151 at Los Canchales reservoir (BA) Silvia Duque, José A. Sánchez, Antonio Torrijo, Luis Salguero; 1 at El Hondo reservoir (A) Gitte S., Johan L.; 250 at Dos Reinos lagoon (NA) Mikel G. Z.; 400 around Pitillas lagoon (NA) Tessa Subiza; 35 over Villafranca-El Plano (NA) Eduardo Sevilla; 120 at La Nava lagoon (P) David Araque; 406 at Villafáfila nature reserve (ZA) Juan J. González, Miguel A.G.M.; 220 at Riolobos weir (SA) Carlos Villaverde; 1,350 at Cambrillos gravel works (TO) Javier Nicolau; 9 at Finisterre reservoir (TO) Miguel García; 40 at Tembleque (TO) José A. Calvo; 5 over Torremejía (BA) José A. Román; 45 at Cornalvo reservoir (BA) Gerardo Pizarro; 14 at Portaje reservoir (CC) Juan A. García; 1,500 at Borbollón reservoir, Santibáñez el Alto (CC) Natalia Rojas; 400 at Hato Blanco, Doñana National Park (SE) José Zarapico; 6 over Madrid, Daniel Fernández; 1 over Martorell (B) Ramón Ruíz; 75 at Casas de Don Antonio reservoir (CC) Agapito J. Verde; 332 over Xorroxin (NA) Andrea Est, Oier Frías; 640 over Herce (LR) Michel Marín; 20 at Morantes reservoir, La Roca de la Sierra (BA) José L. Bautista; 1,134 roost at El Hoyo lagoon (AV) Arón Blázquez, Cruz González, Chema García; 85 roost at Campazo lagoon, La Aldea del Obispo (CC) Neil Renwick; migrating flocks arrive at Gallocanta (Z/TE) at 19:20h, María Berna.

-07/12/23: 1 at Las Cañas reservoir (NA) Javier Robres; 9 over Collado Mediano (M) Adolfo Rodríguez (GOEP); 400 at Villacañas (TO) Ángel Velasco; 177 at Grañen (HU) Eduardo Gracia; 31 over Fuentidueña de Tajo (M) René A. Prieto; 7 in Pego-Oliva marshes (A) F. José Llácer; 350 at Campillos (MA); 35 at La Atalaya (CR) Manu Santa-Cruz; 350 at the seasonal lagoon by track at Alcázar de San Juan (TO) José A. Sánchez; 2,000 at Navalcán reservoir (TO) Christophe Pontegnie; 20 over El Retiro (M) Tino Fernández; 52 over Quer (GU) Ángel Vela; 66 feeding and 102 in flight at Baldío de Velada (TO) José L. de la Cruz (ARDEIDAS); 1 in the Llobregat delta (B) Mireia Pintado, Ferrán López; 30 at Castellò d'Empuries (GI) Llado Coia; Óscar Muñoz; 12 over Rascafría (M) Javier Alonso; 78 at Santa Teresa reservoir (SA) Vega Bermejo; 47 at El Hondo reservoir (A) Toni Zaragoza; 34 over Palomero (CC) Hugo Sánchez; 35 over La Rioja, Marta Ruiz; 224 at El Robledo (CR) Silvia Duque, Antonio Torrijo; 100 over Arnedo (LR) Virginia Muñoz; 47 over Getafe (M) Carlos Paulos (DALMA); 8 at Salobrejo lagoon (AB) Rafael Cortés; 199 at Pétrola (AB) Pau Ortega; 17,400 are censused at Gallocanta lagoon

(Z/TE) S.A.R.G.A.; 2,200 go to roost at Torre de Abraham reservoir (CR) Silvia Duque, Antonio Torrijo.

-08/12/23: 1,000 roosted at a seasonal pond at Ejido de Navarredonda, Villacañas (TO) Ángel Velasco; 2,545 roosted at Dos Reinos lagoon (NA) David Miqueleiz; 14 over Sotos de Alfaro (LR) José R. Martínez; 13 at Sierra Boyera reservoir (CO) Antonio Leiva; 200 in dehesas at La Roca de la Sierra (BA/CC) Mariano Cabrero; 13 over Torrejuncillo del Rey (CU) Rocío; 33 at Castellò d'Empuries (GI) Marçal Collell, Joan Cortés; 23 over Soses (LL) Miquel Miguel; 3 over the Sierra de Urbasa y Andía (NA) Cuevas Ruíz; 300 over Pitillas lagoon (NA) Jorge Nubla; 50 in rice fields at Tauste (Z) Luis García; 9 over Zaragoza, Enrique Pelayo; 19 in rice fields at San Lorenzo de Flumen (HU) Eduardo Gracia; 27 at Alcalá de Gurrea (HU) Francisco Quesada; 9 over Abenojar (CR) Manu Santa-Cruz; 27 at El Vicario reservoir (CR) Laia Carrió; 100 in Tablas de Daimiel National Park (CR) and 200 at Torralba de Calatrava (CR) Silvia Duque, Antonio Torrijo; 220 at Puebla de Alcollarín (BA) Martin Kelsey; 3 over Badajoz, Miquel Todón; 218+ at Arroyoconejos reservoir (BA) Joaquín Vázquez; 70 at Hinojosa del Valle (BA) Andrés Vega; 40 at Casas de Don Antonio (CC) José M. Rojo; 8 over Sacramenia (SG) Ana Martín, César Díez; 58 at Boada de Campos lagoon (P) Eva Ruíz; 43 over Anguila reservoir, Serrejón (CC) and 3 over Arrocampo reservoir (CC) Javier Prieta; 15 at El Hondo reservoir (A) Marcos Real; 12 at Aldeaseca (AV) Víctor Coello; heard over Meco (M) Lorenzo Rodríguez; 104 over Aznecar (NA) José Ardaiz; 200 over Arnedillo hills (LR) Virginia Muñoz; 12 at Ataquines (VA) Jorge Crespo; 6 at Cantalejo (VA) Rafael López; 1 in L'Albufera natural park (V) Francisco J. Lloris; 130 over Getafe (M) Carlos Paulos (DALMA); 200 at Santa Teresa reservoir (SA) Marcos Sevillano, Miguel M.G; 1,500 at Castrejón reservoir (TO) Javier Gómez.



Image nº 50: Crane roost at Dos Reinos lagoon (NA). Photo: David Miqueleiz

-09/12/23: 115 roosted at Alange reservoir (BA) José A. Román; 323 left the roost at Ejea de los Caballeros (Z) Javier López; 16 at Galachos de la Alfranca (Z) Fede Sancho; 24 over Utebo (Z) Ignacio Romero; 384 at Gutiérrezmuñoz (AV) Víctor Coello; 15 at Alcázar de San Juan (CR) Valentín López-Baez; 4 in dehesas at Pilas (SE) Francisco J. Salcedo; 30 over Sant Martí d'Albars (B) Jordi Clavell; 50 at La Janda (CA) M. Carmen Álvarez; 3 on dry land at Uldecona (T) Miguel Recreo; 6 in Ebro Delta nature reserve (T) Pascual Monferrer, Marta Ibáñez; 239 at Pitillas lagoon (NA) Carlos Ruíz; 200 over Alduide hills (NA) Rubén Sánchez; 111 at Ríolobos weir (SA) Jesús Ruyman; 70 over Borox (TO) Miguel García; 172 at La Loteta reservoir (Z) and 6 over Zaragoza, Samuel Aunión; 46 over Galachos de la Alfranca (Z) Belén Cano; 450 at Alcázar de San Juan (CR) Juan M. Trujillo; 400 at Consuegra lane lagoon (TO) Silvia Duque, Antonio Torrijo; 170 at La Fresnedilla pond, Oliva de Plasencia (CC) Álvaro García; 17 over Don Álvaro (BA) José L. Bautista; 23 over Navas del Rey (M) José A. Fimia; 51 over the River Tajo at Talavera de la Reina (TO) Antonio Alía (ARDEIDAS); 24 over Murillo el Fruto (NA) A. Galache; 4 at Sant Carles de la Rapita, Ebro Delta nature reserve (T) Francisco Cabrera; 5 over Peñarroya-Pueblonuevo (CO) Antonio Leiva; 2,000 at Salicor lagoon (TO) Juan Calonge; 150 at Ramiro (VA) Juan Crespo; 1,930 in Tablas de Daimiel National Park (CR) Manu Santa-Cruz; 2,500 at Castrejón reservoir (TO) Javier Nicolau; 930 at Torralba de los Sisones (TE) Pilar Edo; 2,200 go to roost at El Hito lagoon (CU) Antonio Torrijo, Silvia Duque.



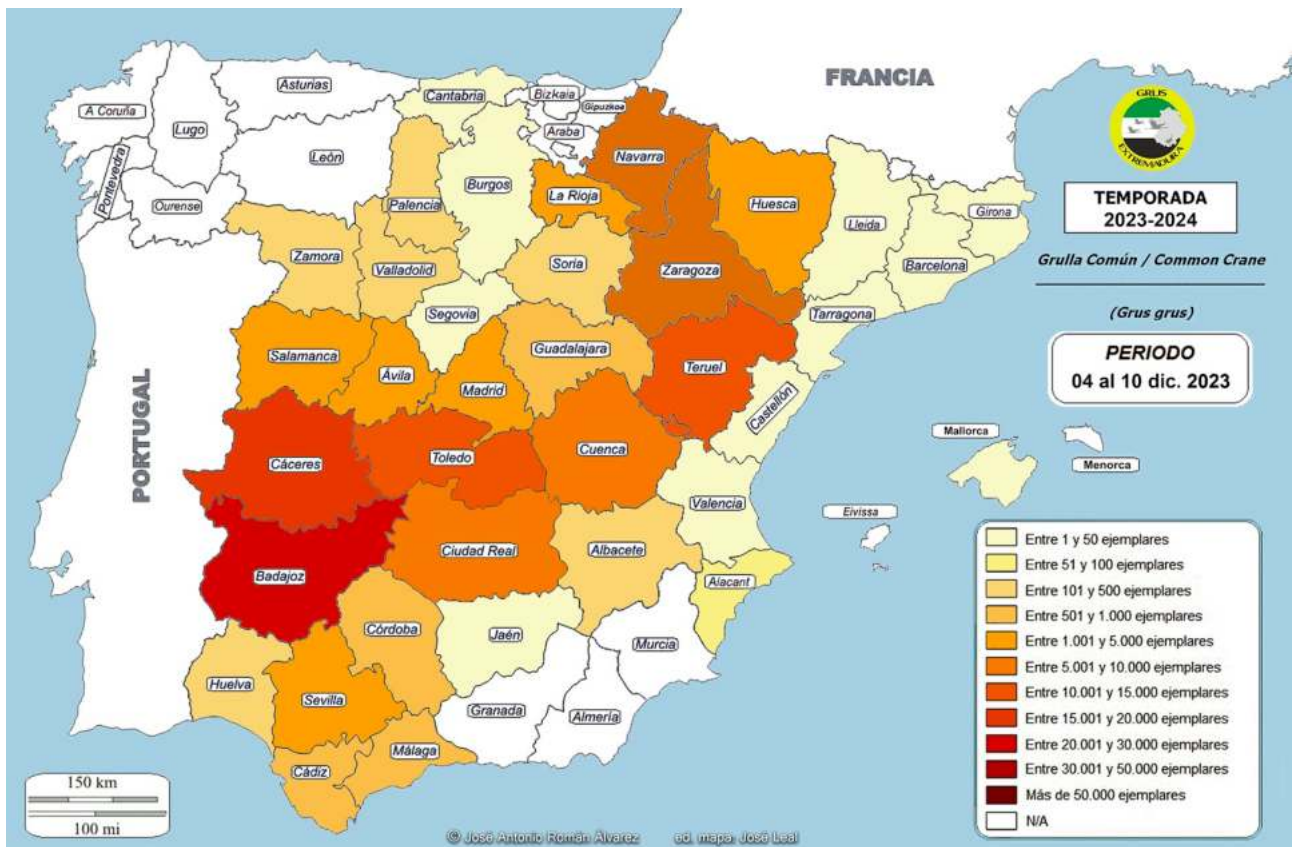
Image nº 51: Cranes at Pitillas lagoon (NA). Photo: Jorge Nubla

-10/12/23: 256 leave the roost at Ejea de los Caballeros (Z) Javier López; 1,103 leave the roost near the River Búrdalo, Torrefresneda (BA) José A. Román; 25 over Almendralejo (BA) Charo Fernández; 16 at Torremayor (BA) Mariano Cabrero; 47 at La Albuera lagoon (BA) and 84 in dehesas at Valverde de Leganés (BA) José Leal; 14 at Sariñena lagoon (HU) Kees Woutersen; 9 at Castellò d'Empuries (GI) Bruno Vellet; 600 at San Salvador

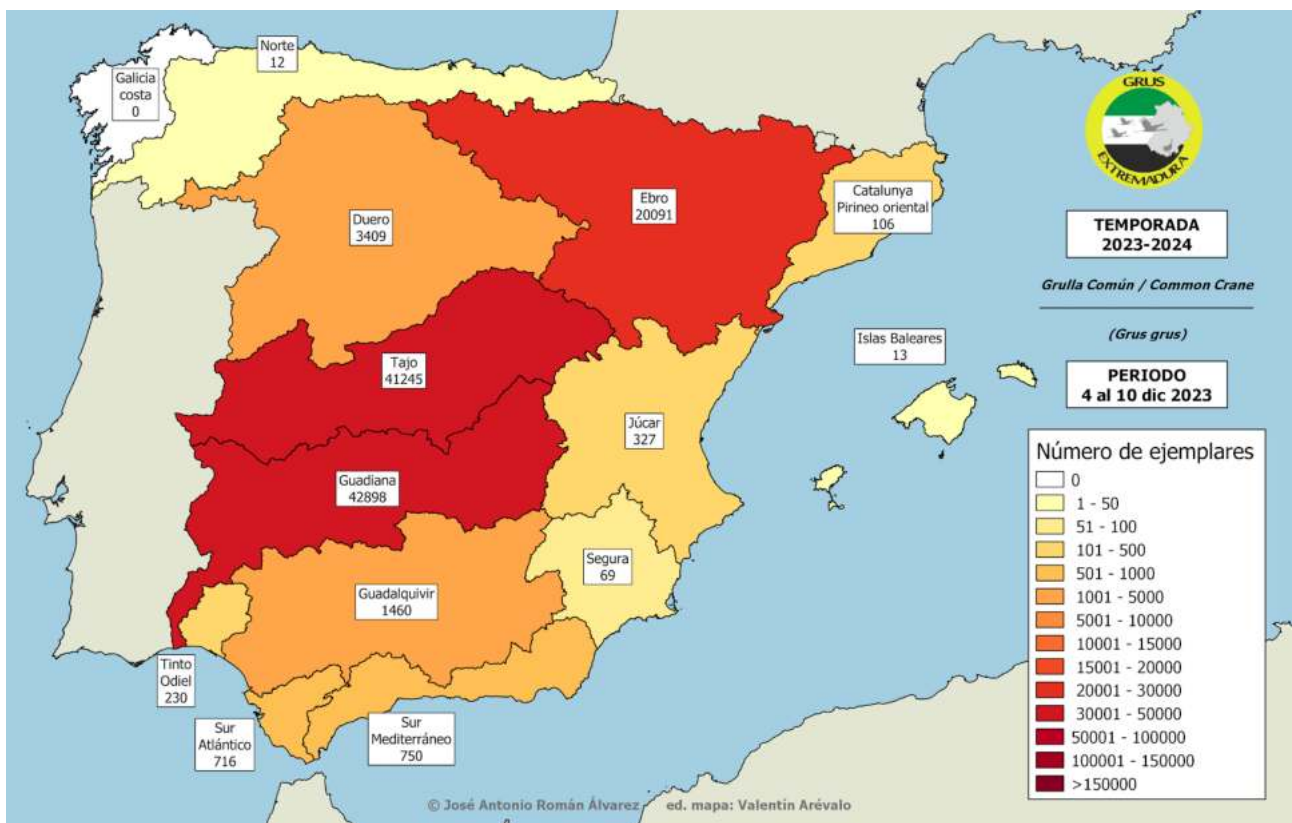
reservoir (HU) Alberto Gasquet; 6 over Sangüesa (NA) Jon Sola; 400 at Dos Reinos lagoon (NA) A. Galache; 1 at La Cuerda Del Pozo reservoir (SO) Jesús Ruíz; 73 at El Provencio (CU) Andrés Pinedo; 303 at Pétrola lagoon (AB) Mario Marcos; 500 in rice fields at Yelbes (BA) José A. Sánchez; 220 at Búrdalo reservoir, Escorial (CC) and 6 at Las Canchalejas weir, Villamesías (CC) Seppo Hjerppe; 36 at Salvatierra (SA) Vega Bermejo; 115 at La Nava lagoon (P) Francisco J. Calvo; 250 at Aldea de Cuenca (CO) Miguel Corvillo; 550 go to roost at El Hoyo lagoon (AV), fewer birds due to disturbance at the roost site, Arón Blázquez; 2,957 go to roost at Santa Amalia (BA) José A. Román.



Image nº 52: Cranes in dehesas in Extremadura. Photo: José A. Román

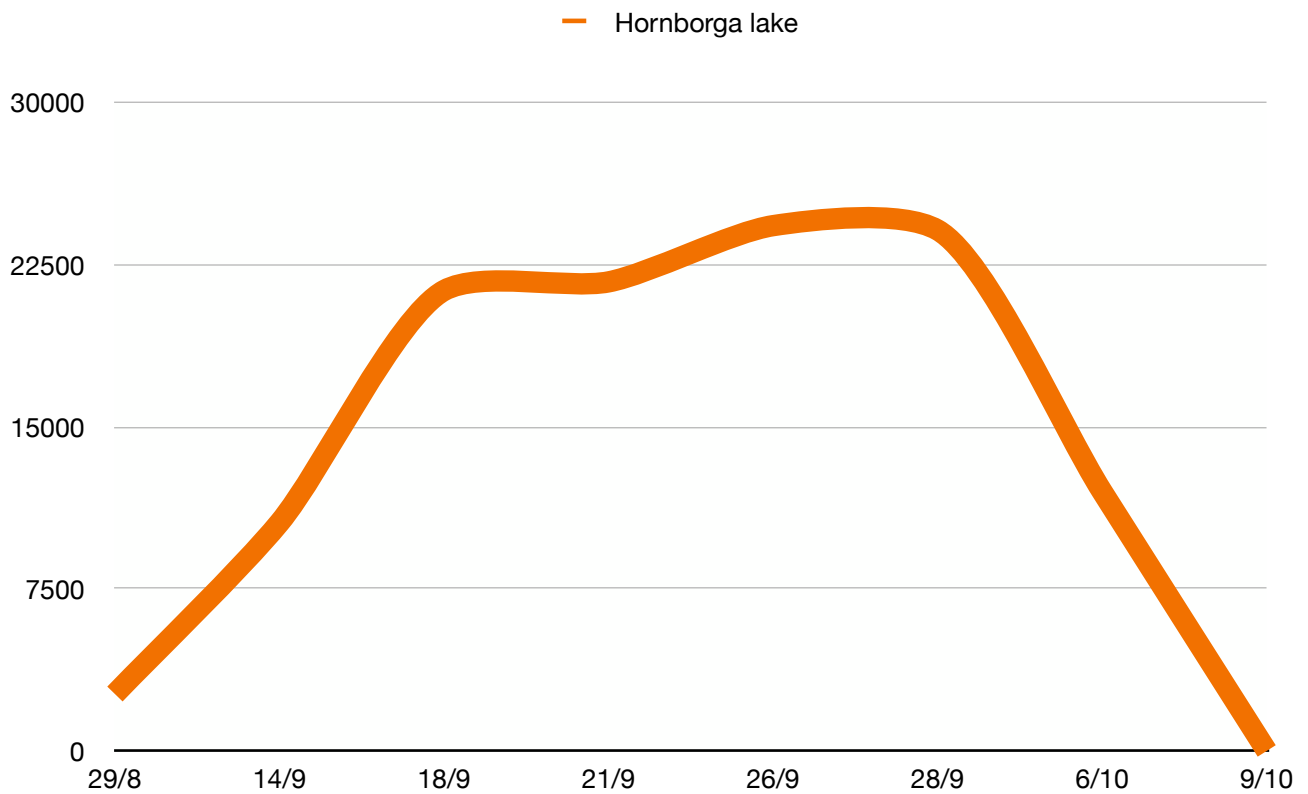


Map nº: 23: Distribution and migration by provinces between December 4 and 10



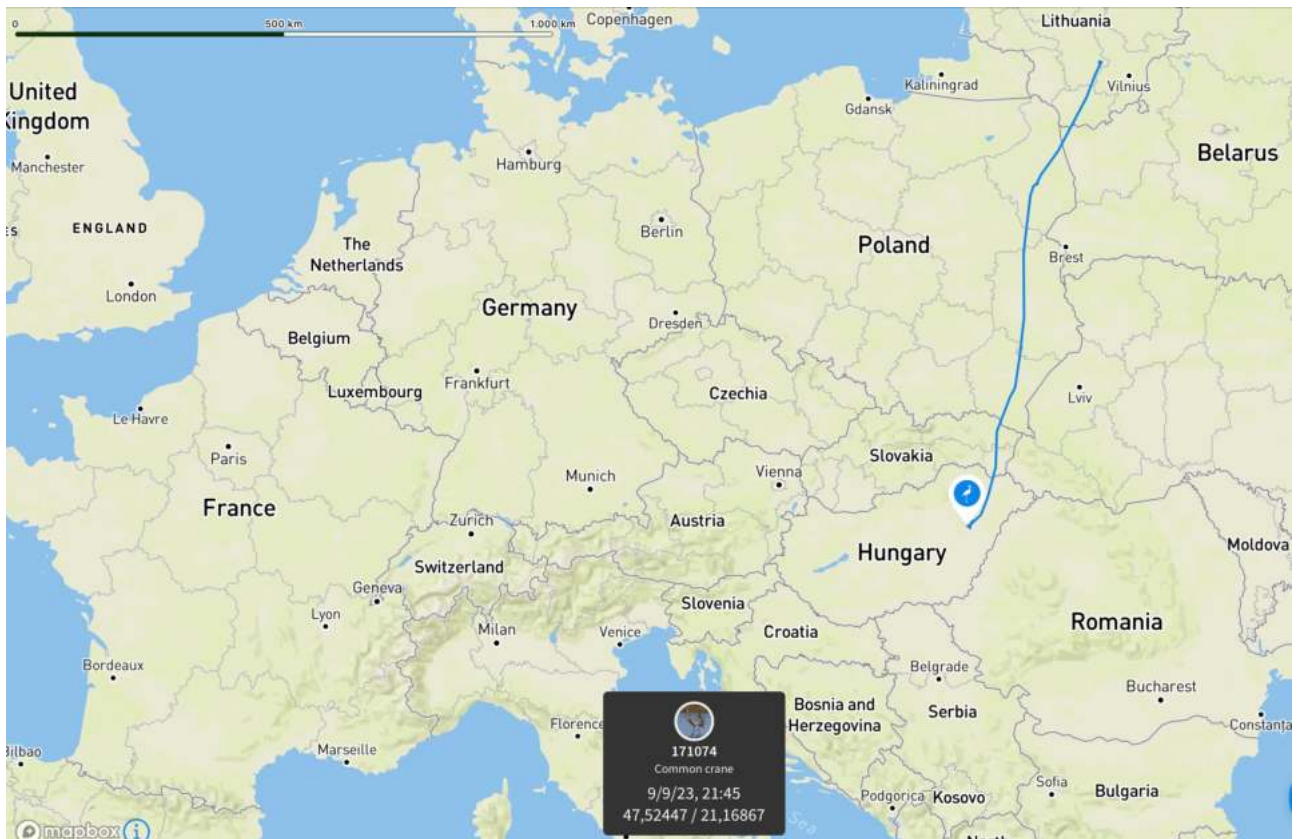
Map nº: 24: Distribution and migration by catchment areas between December 4 and 10

The cranes began to move and congregate at the end of August and start of September in different areas of the breeding countries, such as Hornborga Lake in Sweden, where flocks of up to 2,640 birds were seen on 29 August (Hornborgasjöns fältstation), a number which subsequently increased during September, and on the 14th there were 10,565, 21,300 on the 18th, 21,700 on the 21st and 24,300 on the 26th. They crossed the Baltic Sea heading south *en masse* between the 5th and the 8th of October.



Graphic n° 1: Evolution of the summer population at Hornborga Lake (Sweden) between 29 August and 9 October. Source: Hornborgasjöns fältstation

The first migratory movements took place at the start of September, such as the example of a Lithuanian pair which began their migration journey on 6 September at 10:30h from Manciuana, crossing the border with Poland at 13:00h and taking a break to sleep at Topilec at 19:30h. They set off the next day at 07:15h to the south, crossing the Slovak border at 20:00h and continued travelling, into the night, until they stopped at 23:45h at Északilucernas, next to the Hungarian border. They set off on the 8th at 07:00h, arriving at Hortobagy National Park (HU) at 08:45h, ending their first migration stage after covering 755km to the south.



Map nº 25: Migration route of the Lithuanian pair between the 6th and 8th September 2023. Source: Animal Tracker

These cranes began the second stage of their journey on 1 November, abandoning this location at 08:45h, heading south-west, stopping at 16:45h at Szabadszállás, where they left on the 4th at 11:30h heading west-north-west, stopping near Lake Neusiedl in Austria at 17:00h, after covering 445km.

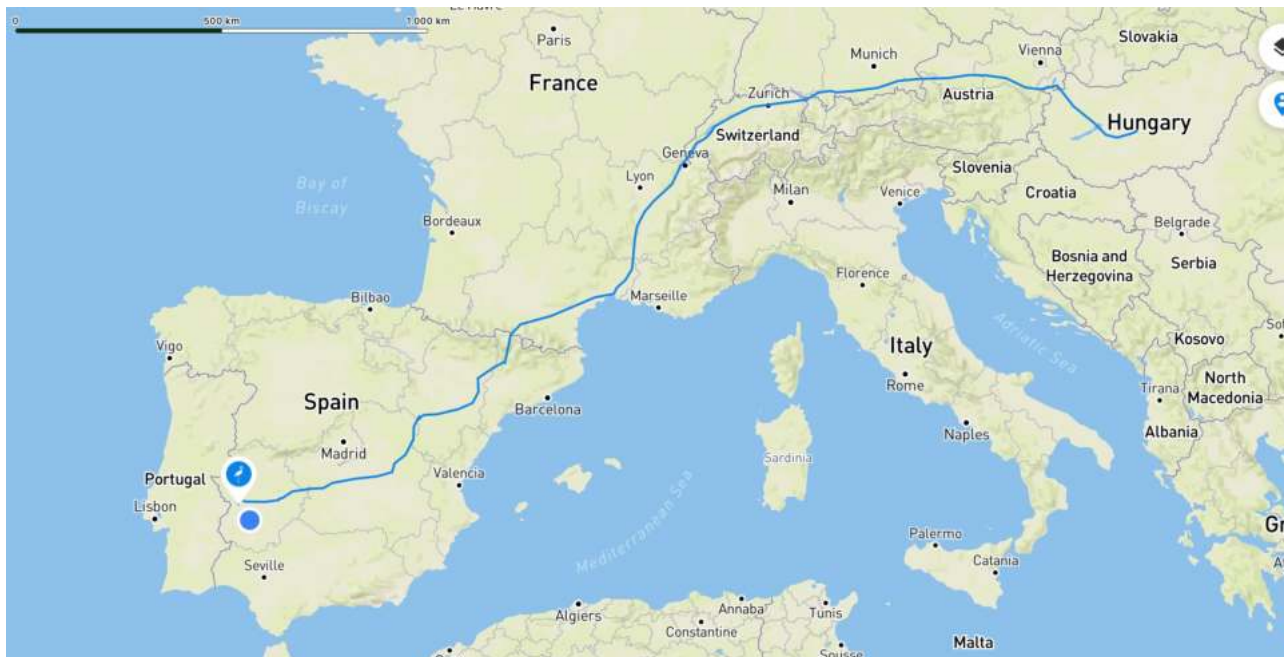
They set off on the 6th at 08:16h, flying over Lake Chemsee in Germany, to the south-west of Munich, and continued flying through the night, flying over Lichtenstein at 21:30h, arriving at Lake Neuchatel in Switzerland at 10:22h on the 7th, after flying 700km. This route took them around the north of The Alps into eastern France.

They set off on the 8th at 08:45h, flying over Montpellier (France) at 22:00h, crossing the Spanish border in the Pyrenees of Huesca at 02:00h and stopping at the River Noguera Pallaresa, to the south of Tremp (Lleida), at 04:30h. They left at 12:00h and continued their journey to reach Gallocanta lagoon at 21:30h, having covered 690km.

They stayed at the lagoon until 14 November, which they departed from at 11:30h, going to Alarcón reservoir (CU) to sleep, 112km away. They left the next day at 11:00h heading west, and with dense fog in the Guadiana and Tajo catchment areas, flew over Torre de Abraham reservoir (CR) at 15:45h and entered Extremadura at 17:00h over Cijara reservoir (BA) and arriving in the River Cubilar rice fields at 18:45h, where they spent the night after covering 292km.

They moved off at 09:00h on the 16th, arriving in the dehesa at La Roca de la Sierra (BA) at 17:15h then later went to roost at 21:15h at Villar del Rey reservoir (BA), covering 124km in this final stage.

The final stage of the journey of this pair and their chick, has brought them to a total of 3,028km travelled from the breeding area, taking them two months and ten days, with stops in Hortobagy (HU) of one month and 23 days and a second stop at Gallocanta lagoon (Z/TE) of five days.



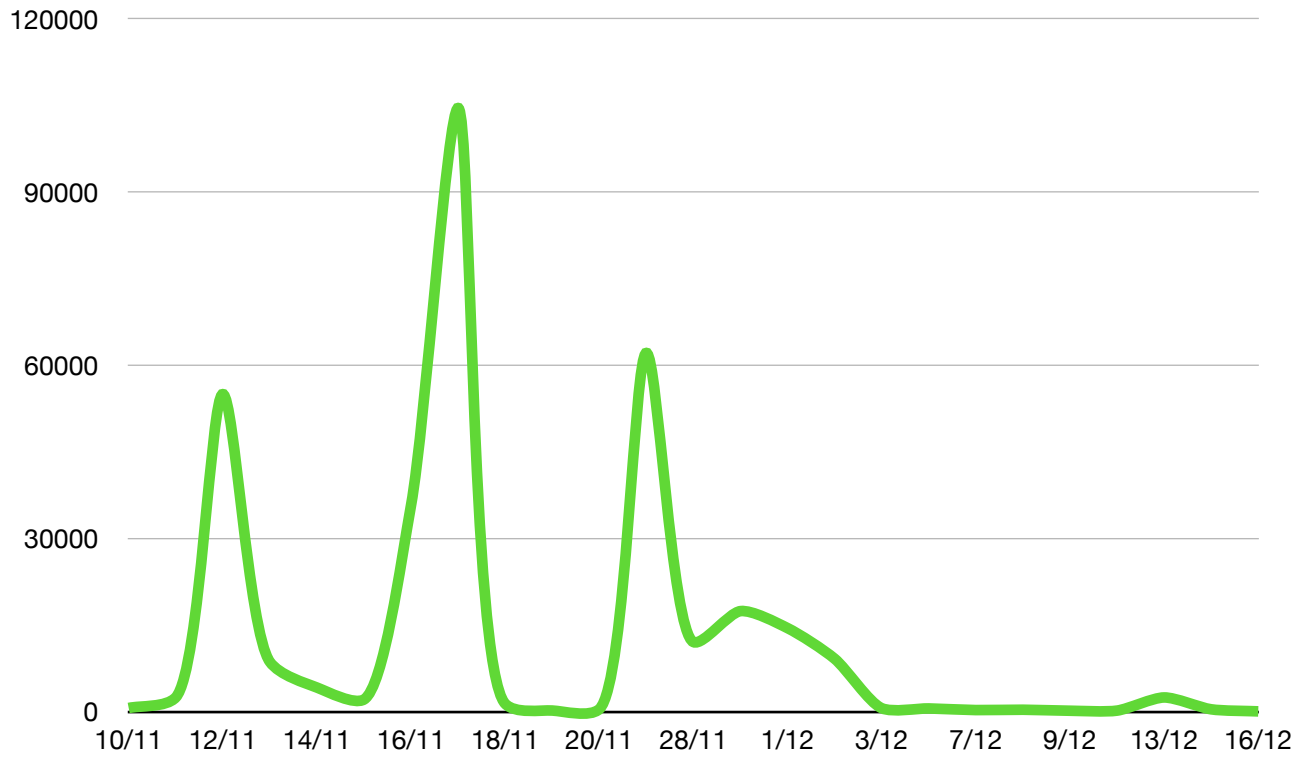
Map n° 26: Second stage for the Lithuanian cranes, from Hortobagy to Extremadura. Source: Animal Tracker

The post-nuptial migration has been very different to earlier years, as it was significantly delayed. Although cranes left their most northerly breeding areas at the end of summer and congregated in Hungary (Hortobagy), Germany (Rhine-Havelluch) and Poland (Wharta National Park), they extended their stays during the last weeks of October and early November, thanks to the availability of food, benign weather and mostly south-westerly winds that were blowing in Europe.

Hortobagy (Hungary) registered concentrations of up to 194,750 birds on 21 October. In Germany, up to 102,252 cranes gathered on 7 December in Diepholder and Rhine-Havelluch, and in Wharta National Park, Poland, up to 17,242 gathered on 12 November.

Finally, in Germany they set off in several waves; the most significant were those on 12 November, with 53,000 birds, the 17th with 104,800 birds and the 22nd with 62,140 birds (Martin Kraft et al), this one extended through the following days. In the first fortnight of December 28,118 cranes migrated, of which 23,590 were on the 1st and 2nd of December (Martin Kraft et al).

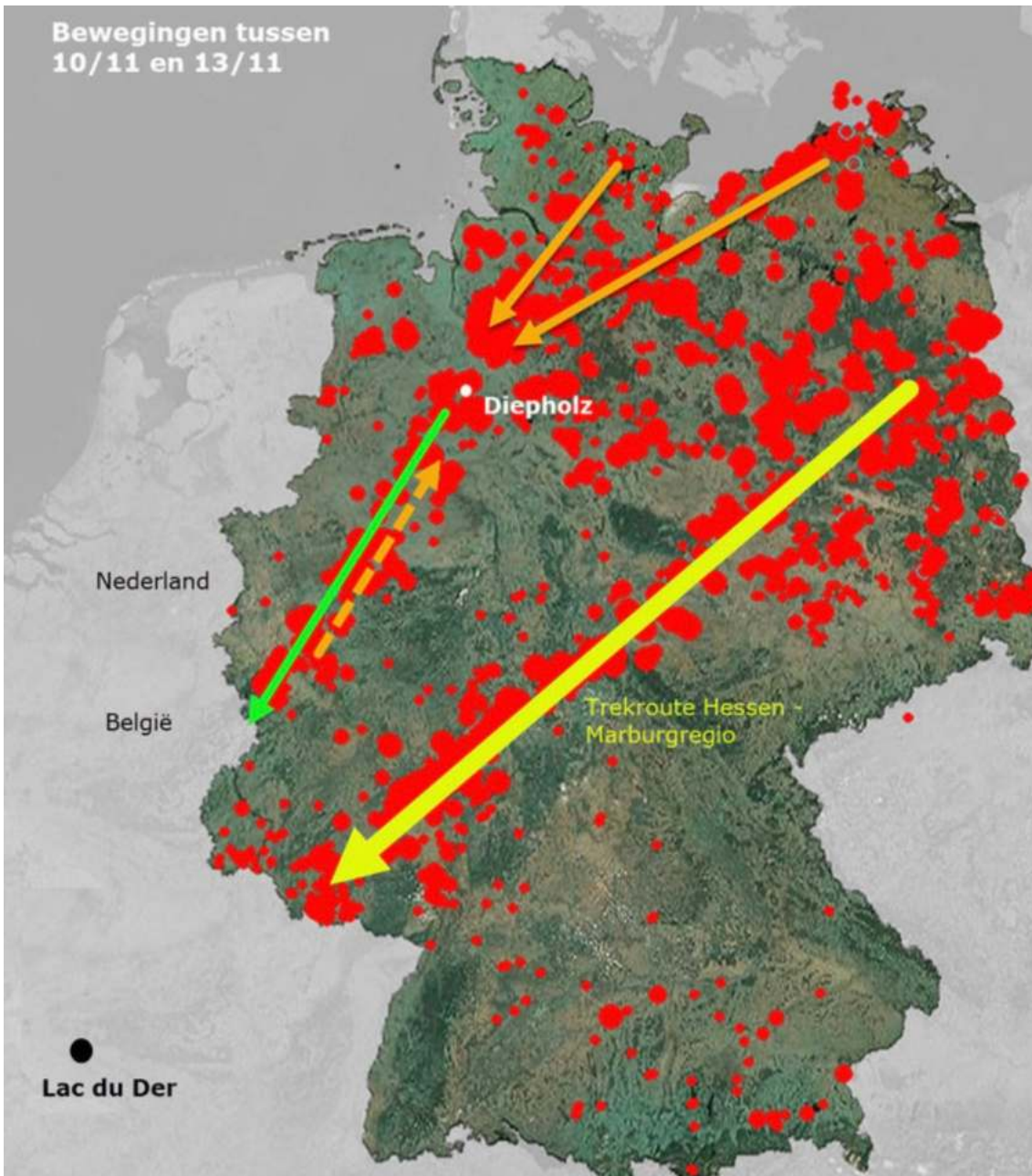
MIGRATION BY MARBURG Y GIEBEN



Graphic n° 2: Migratory waves in Germany between 10 November and 15 December 2023. Source: Martin Kraft (Grus grus Europe)



Image n° 53: Cranes migrating over L'Albufera natural park (V). Photo: Toni Polo

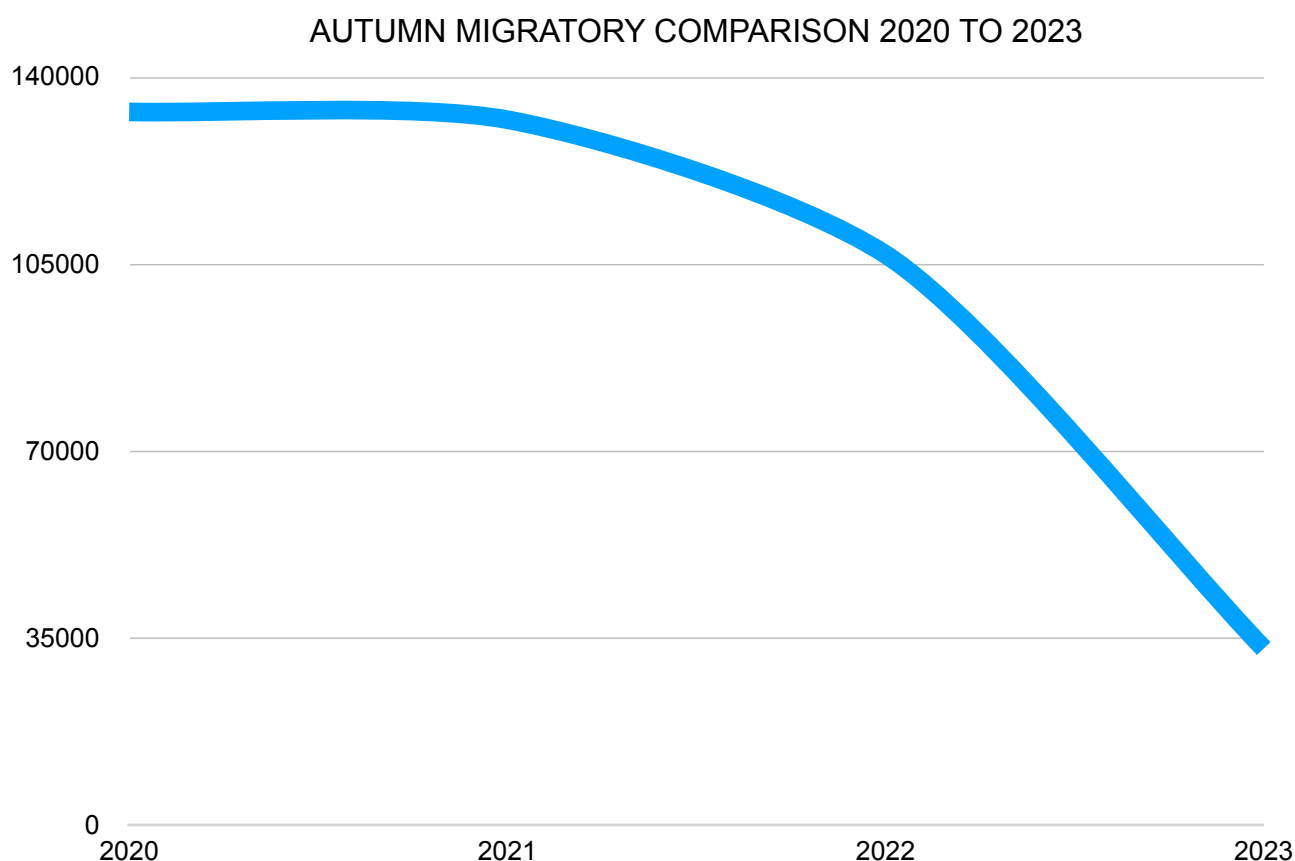


Map n° 27: Migratory movements in Germany in November. The upper lines correspond with Scandinavian birds and the lower ones correspond with those from Central Europe. Source: ornitho.de

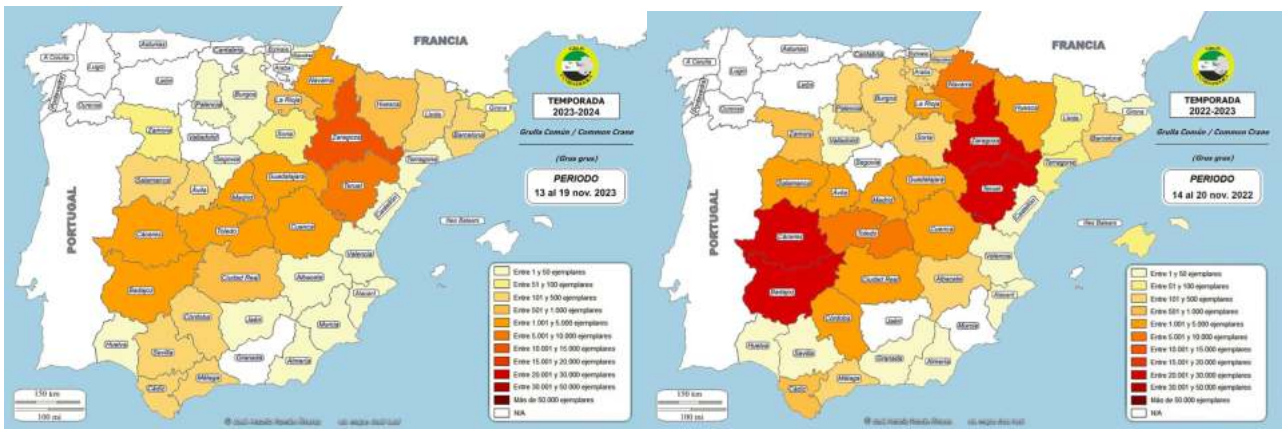
In Spain, therefore, the registrations were very low during October, accumulating some 4,700 cranes in total. November also began with low migration figures during the first two weeks, in which barely 7,000 birds arrived in the peninsula.

The south-westerly winds and nocturnal migration produced unusually poor results in Navarra, which channels the bulk of migration in this period, but only 4,400 individuals had been recorded by 20 November (half of them on that day), when on the same dates of the previous year they had registered 102,000 cranes, as reported by Jesús M. Lekuona.

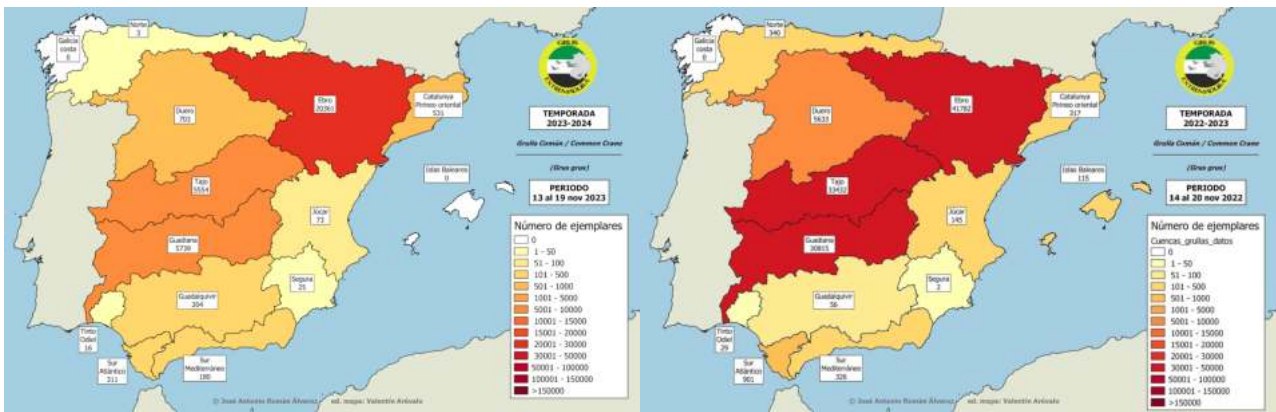
In Spain, in the same dates of 2022, 106,813 cranes had already arrived, 132,000 had done so in 2021 and 133,455 in 2020, so we could be witnessing a migration delay process, probably associated with climate change.



Graphic nº 3: Comparison between autumn 2020 and autumn 2023 of the progress of migration between 1 October and 20 November



Maps nº 28 & 29: Comparison by provinces of migration and distribution in the second week of November (left 2023 and right 2022)

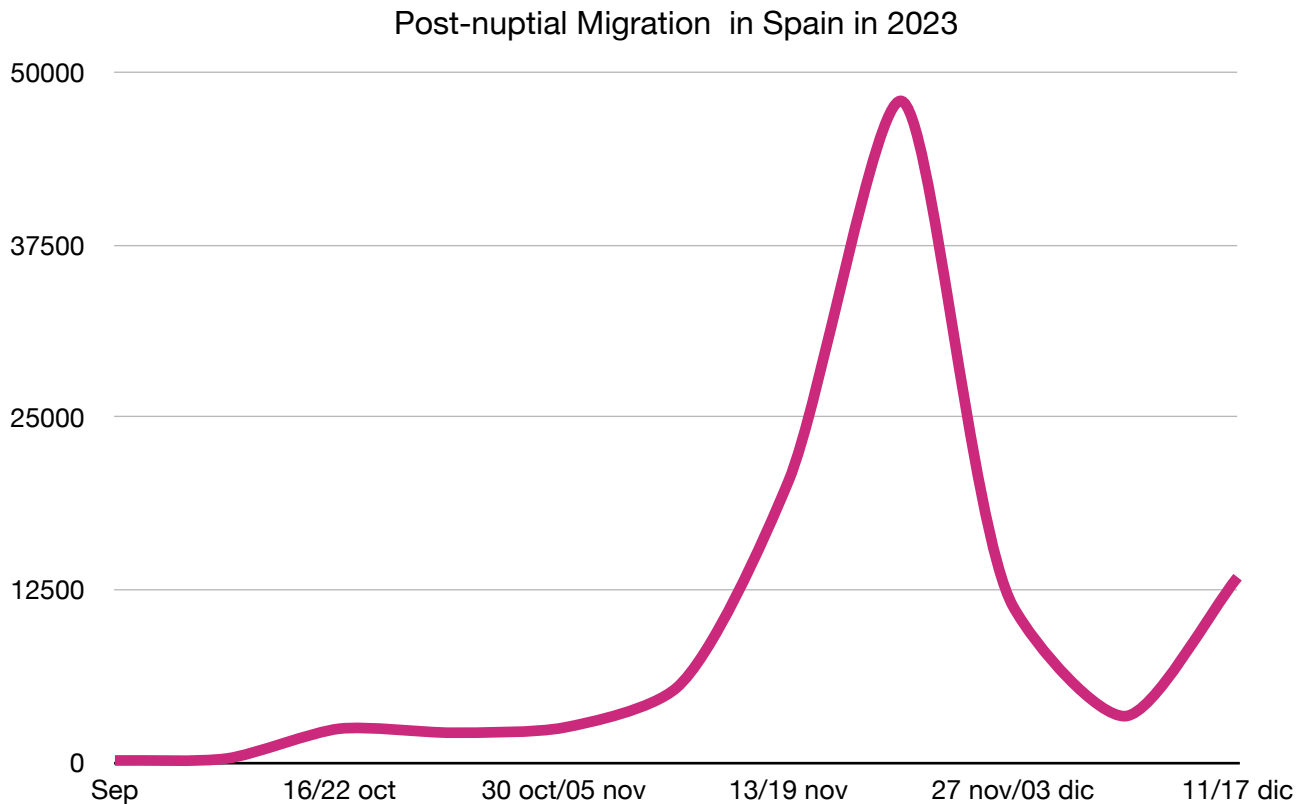


Maps nº 30 & 31: Comparison by water catchment areas of migration and distribution in the second week of November (left 2023 and right 2022)



Image nº 54: Cranes resting at Dos Reinos lagoon (NA) during their migration journey. Photo: David Miqueleiz

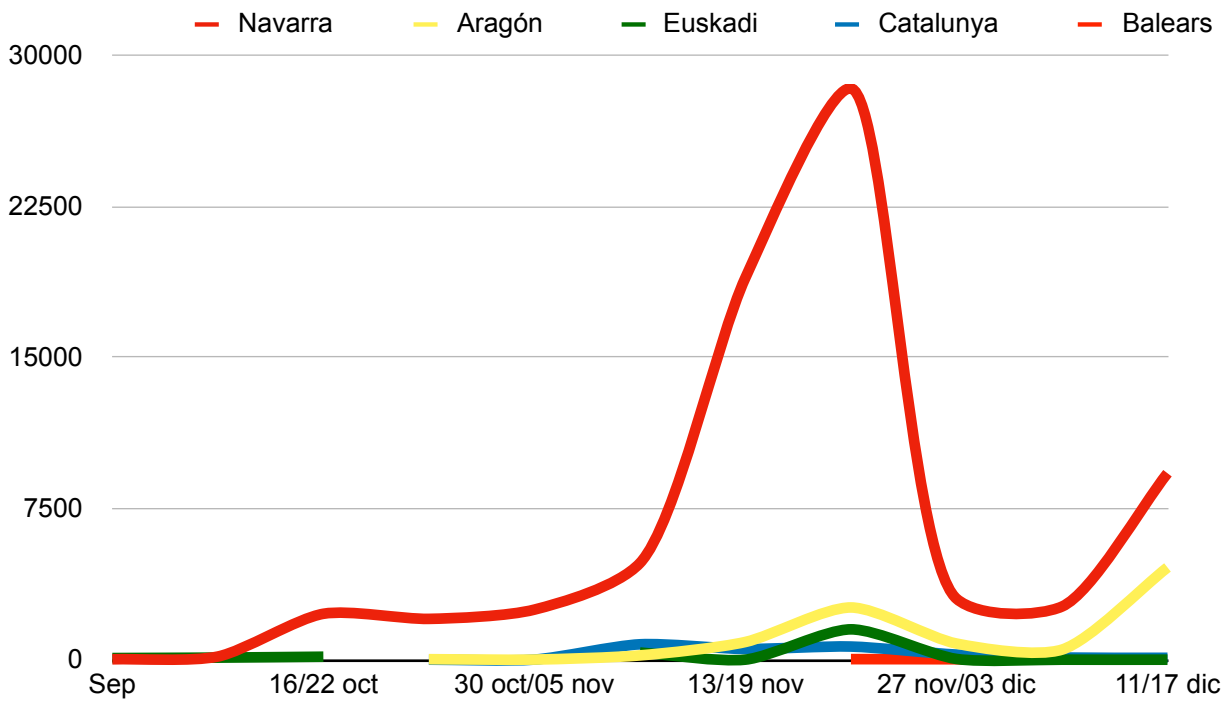
Migration was concentrated almost exclusively into a single wave, in which 80,065 individuals could be counted on diurnal passage, while nocturnal passage was equally intense during the 20th and 21st November. Consequently, the true figure must be double that observed during the day, so that some 150,000 birds could have arrived in only 48 hours.



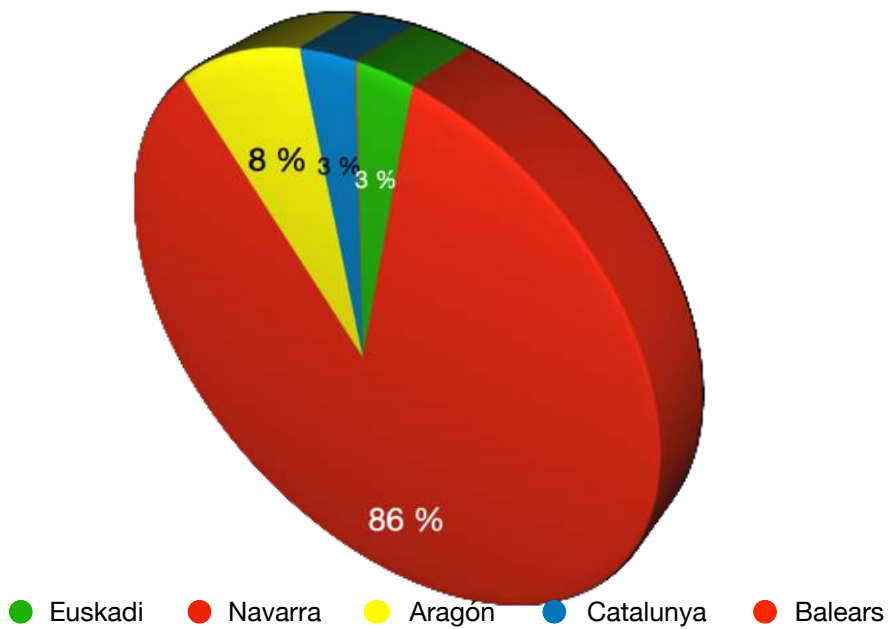
Graphic n° 4: Evolution of post-nuptial migration in Spain in 2023

Navarra, with 68,765 cranes, concentrated 86% of the migrants during this period, followed by Aragón (Huesca) with 6,587 (8%), Catalonia 2,401 (3%), The Basque Country with 2,228 (3%) and the Balearic Islands with 64 individuals.

The birds that entered through the most westerly Pyrenees of Navarra and Huesca were being observed from the start, however those that came along the Hungarian route and entered via the eastern Pyrenees in Catalonia and the Balearics didn't arrive until the first week of November.



Graphic nº 5: Evolution of post-nuptial migration by autonomous community in 2023



Graphic nº 6: Migratory percentage by autonomous community in 2023

During the days before and after 15 December (census date) the birds continued entering the peninsula and many continued towards the south-west. It is likely that during the census weekend some 10,000 cranes entered through the Pyrenees (Antonio Torrijo).

-15/12/23: 200 over Pamplona (NA); 39 Retuerta del Bullaque (CR) Gerardo García; 50+80+144 over Sotos de Alfaro (LR) Miguel Martínez; heard over Guadalajara, Sabel & Fernando (DALMA); 21 over Ibargoiti (NA), 265 over Otano (NA) and 8 over Itzá (NA) Alberto; 86 over Artica (NA) Jorge Nubal; 330 over dehesas of Villafranca (TO) MCarmen Comendador.

-16/11/23: 250+500 over Baztán (NA) and 174 over Etxalar (NA) Xabier Etxarri; 34 over Cambrils (T) Albert Gama; 11 over Calafell (T) Yuhay Maña; 110 over Pamplona (NA) María Durán, Rajen Ayerra; 200 over Loza reservoir (NA) Gaspar Zaldua; 200+185+5 over Almazán (SO) Fernando Chaguaceda, Servando Plaza; 30 over Pedrezuela reservoir (M) Jorge García, Robert Wilson; 100 over Valdetorres del Jarama (M) Paul Hubets; 3 at Valmayor reservoir (M) Juan C. López; 2 over Madrid, Álvaro de Andrés; 54 over Parla (M) Rafa Al, which had previously passed over Humanes (M) Paula González; 80+75 over Arnedo (LR) Yolanda Hernández, Michel Marín; 8 over Rupit (B) Jana Marco; 52 over Talavera de la Reina (TO) Marisa Hoyos (ARDEIDAS); 32 over Azuqueca de Henares (GU) Laura Calvo (DALMA); 120+92 over Pastrana (GU) Cristina Pintor; 254 over Artica (NA) David Ardaiz; 200 over Pamplona (NA); 91 La Zolina reservoir (NA) Raúl Pascual; 170 over Calahorra (LR) Marcos Alguacil; 65 over Daganzo de Arriba (M) David Araque; 274 over River Cigüela (TO) MCarmen Comendador.

-17/12/23: 8 in Els Moros marsh (V) Josep Puentes; 19 over Agullana (GI) Pau Federico; 2 over Pals (GI) Jana Marco; 160 over Casarrubios del Monte (M) Unai Fuente; 60 over Seseña (TO) Miguel Pulido; 6 over Sureste natural park, Velilla de San Antonio (M) David Hurtado, García de los Ríos; 35+7+18 over Daganzo de Arriba (M) Beatriz Bermejo, Juan C. Paniagua, Alejandro Fernández, Manuel Vega; 111 over Guadarrama National Park (M) and 65 over Majadahonda (M) Rafael Hidalgo; 52 over Prado de Mazarulleque (CU), 82 over Bolarque reservoir (CU) and 145 at Buendía reservoir (CU) Fernando Alonso; 22 over Hundido de Armallones (GU) Jorge Crespo; 4 over the Sierra de Hornachos (BA) Seppo Hjerppe; 80 over Carabanchel (M) M^a Luisa Gil; 1,000 at Alboré pool/Sotonera (HU) Pablo Vallés; 4,000 at Almudévar reservoir (HU) Silvia Duque, Francisco Quesada; 30 at Valdabra reservoir (HU) Kristoffer Hansen, 110 over Rueda de Jalón; 24 over Colmenar Viejo (M) Jaime Collado.

-18/12/23: 20 left Monteagudo de las Vicarías reservoir (SO) in the morning and 25 in flight, Isabel Ortega, Juan L. Hernández, 56 over Huesca, Rajen Ayerra, 37 over Toledo, Cristina Gómez (SEO-TO); 12 over Marchamalo (GU) Carlos Campos (DALMA); 56 over Calahorra (LR) Roberto Vega; 45 over Mirandilla (BA) Agapito J. Verde.

-19/12/23: 2 over Buriel (BU) Rubén Ramos; 20 over Leganés (M) Paula González; 2 over Albeida (V) Robert Vernooij; 61 over Ágreda (SO) Elena González; 112 over Montalbanejo (CU) Nelson Mesonero; 24 over Titulcia (M) Fernando López; 79 at La Sal lagoon (TO), 15 over Villafranca de los Caballeros (TO) and 392 near the River Quero (TO) MCarmen Comendador, Julio García, Rocío Castañeda; 3,000 over Chica lagoon, Villafranca (TO) Germán Loarces.

-20/12/23: 100 over Mejorada (TO) Fernando Cámara (ARDEIDAS); 13 over Artajona (NA) Jesús M Lekuona; 7 over Herencia (CR) Vicky García.

-21/12/23: 110 over Sanlúcar de Barrameda (CA) José M. Franco; 1 at María Cristina reservoir, El Morell (CS) Jordi Miralles.

-21/12/23: 20 over Cazalegas (TO) David Gómez (ARDEIDAS); 80 over Toledo, Ángel Velasco (SEO-TO); 15,139 are censused at Gallocanta lagoon (Z/TE) S.A.R.G.A.; 45 over Las Herencias (TO) José L. de la Cruz (ARDEIDAS).



Image nº 55: Crane family in their wintering area at Casar de Miajadas (CC) Photo: José A. Román

WINTERING POPULATION IN SPAIN

Methodology and General Results

The two censuses were once again coordinated with Portugal. These took place on **15 December 2023** and **19 January 2024**.

The conditions were optimal in December, apart from in Castile-y-León, where dense fog affected some of the counts, such as Riobobos weir, in Salamanca.

The autumn produced enough rain to fill farm ponds in dehesas, which leads to fragmentation of the roosts in the south-west. They also produced temporary pools and the recovery of endorheic lagoons, which the cranes used for roosting. At some reservoirs, the high water level obliged the birds to look for alternative roosts in different pools.



Image nº 56: Promotional poster for the first census. Photo: Jesús Porras. Design: José Leal

The counting methodology used is to census in roosts and in feeding areas. Because of their gregariousness, cranes are usually very routine and may use the same resting places and feeding areas during the entire winter, and even for years.

Roost sites, which are endorheic lagoons, farm ponds, reservoirs, river backwaters or flooded plots such as rice stubbles, are used for resting, drinking and daily bathing. After resting, they disperse through the feeding area and at mid-day usually bathe and rest then disperse again, and at the end of the afternoon they fly to roost sites.

-Roost or rest area: to count them, it is essential to visit known roost sites at least once before the census, as some may change because of the condition of the wetland. When ponds are dry, cranes look for others that have enough water, and in the case of reservoirs, the location changes according to the suitability of the shore due to the water level.

At roosts, they are generally counted in the evening when birds gather to rest, from a high point from which the cranes' arrival can be controlled. This can also be done when the cranes leave the roost. We generally recommend this should be done in the morning, as this is when we can count all the birds that have spent the night there, apart from days with fog or poor visibility; this is more accurate than at evening, as some birds may arrive at night, and it is difficult to count them at the end of daylight. In all cases, we leave the choice of time to the discretion of the teams. Whichever way, we need to be at the observation point before first light (½ hour minimum) if counting in the morning, or an hour and a half if counting in the evening.

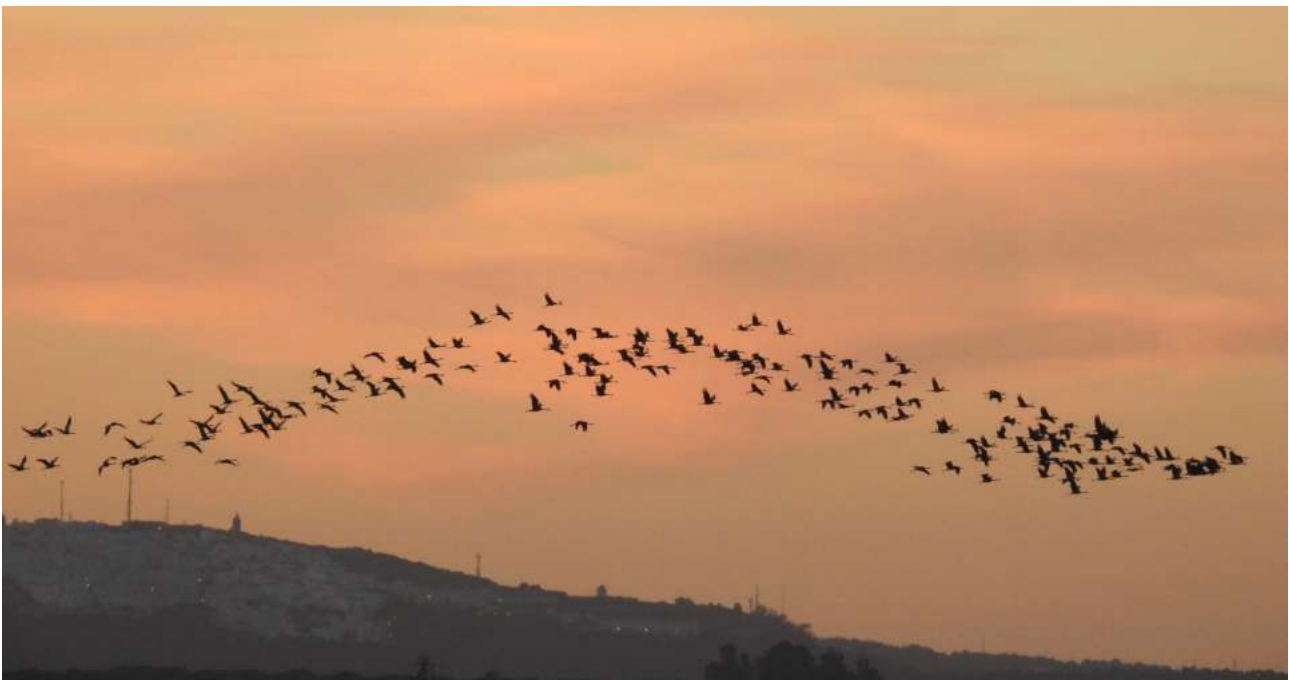


Image nº 57: Cranes arriving at their roost, La Janda (CA). Photo: Alejandro Onrubia



Image nº 58: Cranes in the roost early in the night, Cabeza del Buey (BA). Photo: Juan J. Ruíz



Image nº 59: Cranes in the roost at first light of the morning at Santiago del Campo (CC). Photo: Fran Rojo

-Feeding areas: in areas with large numbers of cranes and with many and changing roosts, as occurs in the Central Zone of Extremadura, to make the best use of the human resources, the census is done in feeding areas, using the network of tracks, generally reasonably accessible, counting birds on the ground and dividing the entire zone into distinct sectors, which are covered by different teams simultaneously.

It begins when the birds have spread out through the area at the start of the morning, following a previously planned route which allows us to go taking note of all the flocks, trying not to make them fly, to avoid them mixing and double counting. It should be finished by mid-day, as then the birds join up to bathe and rest at particular places with water.

If necessary, we can finish in the afternoon after the rest, once the birds have again spread out through the feeding areas, although there may be changes and we have to be attentive to these so as not to repeat data.

In the same way, it is necessary to make visits before both censuses, to locate the places they are using most regularly, as the crop rotations and changes in the stubble fields are frequent through the winter, due to being ploughed or the depletion of resources, as well as new sowing.

Cranes occupy distinct plots through the winter where there are abundant feeding resources, where large numbers of birds can congregate. As the resources become depleted they move to other plots nearby in search of food, which can make them roam through different areas throughout the winter.

In December it was striking how in the Central Zone of Extremadura the majority opted for rice stubbles, as many that had had maize had sprouted again and lacked feeding interest for them, although that did not stop cranes from visiting them.

This method should always be used when the geographical conditions permit, as birds may abandon roosts to find more favourable ones, highly recommendable for some areas in Aragón and Castile-La-Mancha.

Finally, a mixed method can also be used, which consists of counting them in feeding areas then afterwards counting at the roost in the evening, or counting them leave the roost in the morning then counting in the feeding area.



Image nº 60: Flock of cranes feeding in sprouted maize stubble at Alonso de Ojeda (CC).
Photo: José A. Román



Image nº 61: Flock of cranes feeding in rice stubble at Santa Amalia (BA). Photo: J. A. R.



Image nº 62: Cranes in dehesa at Casas de Don Antonio (CC). Photo: José A. Román

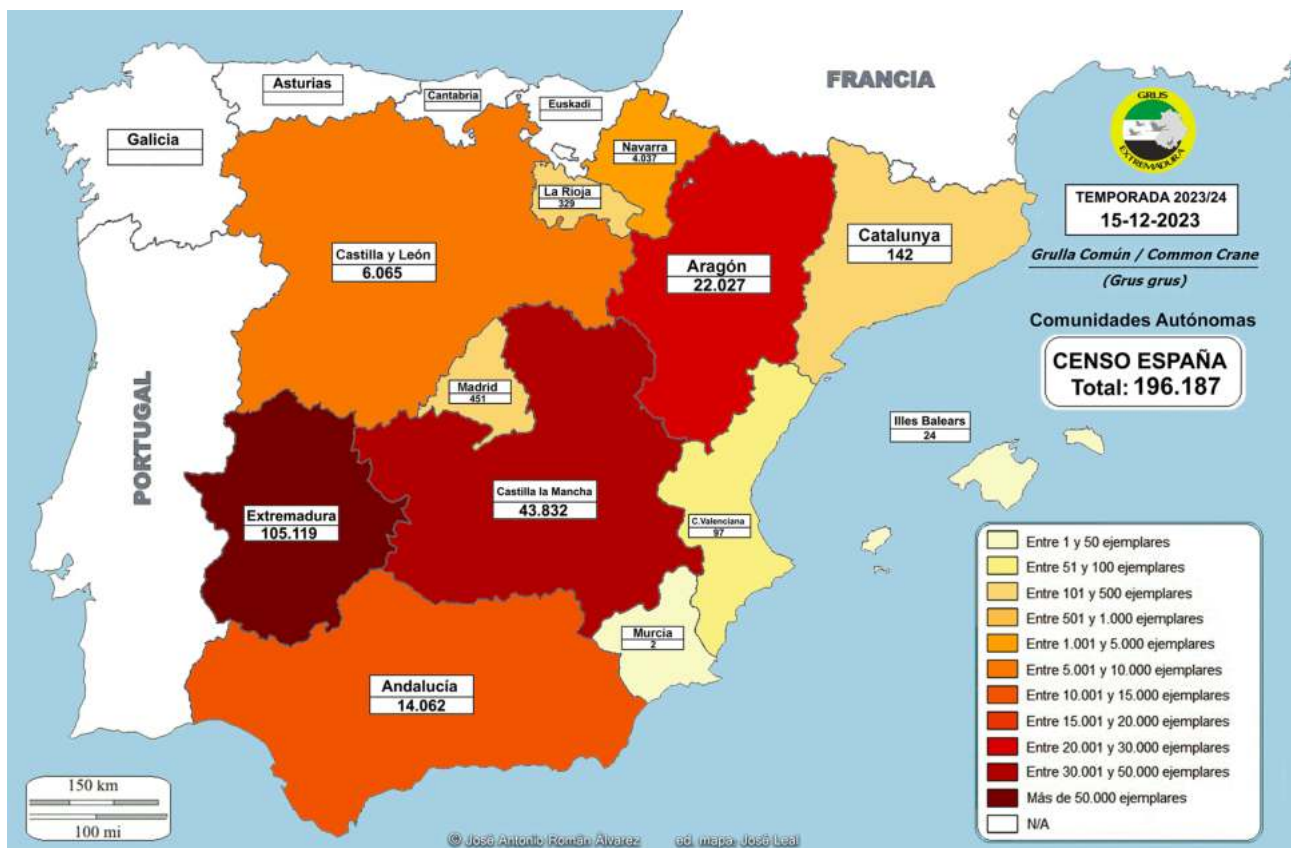
FIRST CENSUS

The weather conditions were favourable for doing the December census, although dense fog made counting difficult in some localities in Salamanca, which were visited on 17 December for technical reasons.

Some areas of the Brozas sector in Extremadura were not counted.

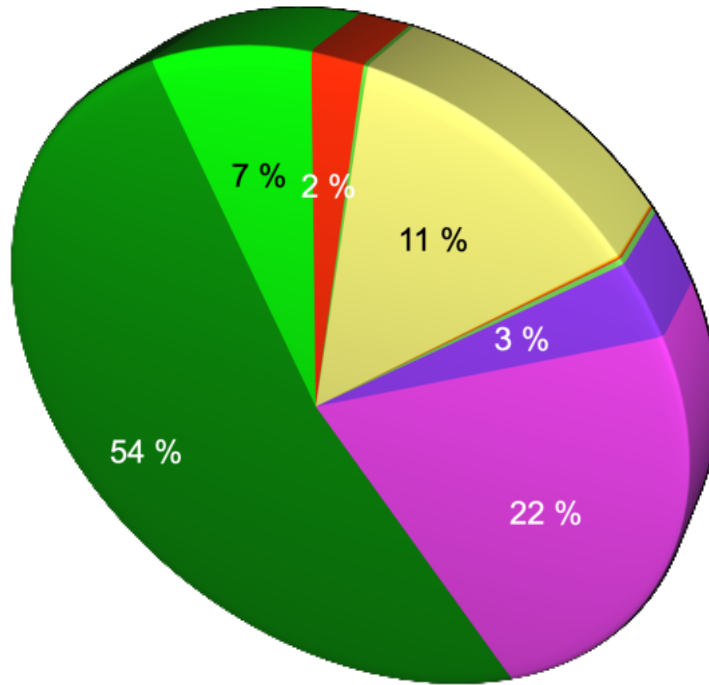
The total number of cranes counted was **196,187** birds, although some 10,000 birds arrived in the Iberian Peninsula in the following 48 hours, so that the definitive figure would be **206,187** cranes.

The principal autonomous community was Extremadura, with 105,119 cranes (54%), followed by Castile-La-Mancha with 43,832 (22%), Aragón with 22,027 (11.3%), Andalucía with 14,062 (7.1%), Castile-y-León with 6,065 (3.1%), Navarra with 4,037 (2%), half of them on migration; Madrid Community with 451 (1.2%), mostly migrating birds; 329 (0.16%) in La Rioja, also migrants; Catalonia with 142 (0.07%), also with migrants in Barcelona province; Valencia Community with 97 (0.04%); Balearic Islands with 24 (0.01%) and Murcia Community with 2 cranes.



Map nº 32: Distribution by Autonomous Community, in December

DECEMBER BY AUTONOMOUS COMMUNITY
2023

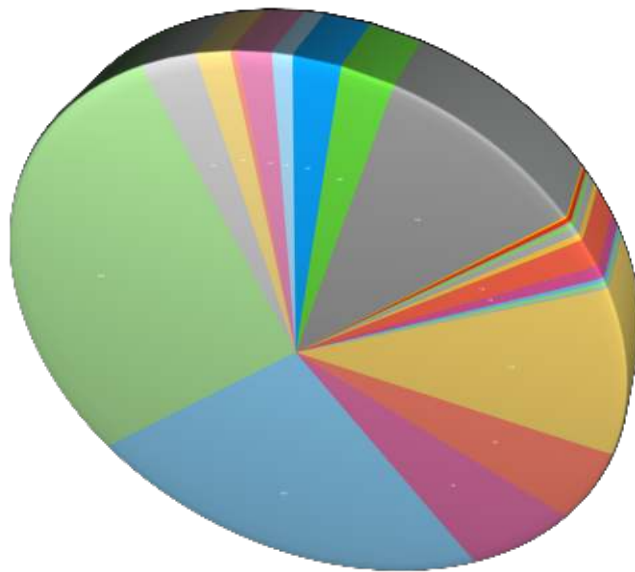


- | | | | |
|-------------------|----------------------|----------------|----------------|
| ● NAVARRA | ● LA RIOJA | ● ARAGÓN | ● CATALUNYA |
| ● C. VALENCIANA | ● ILLES BALEARS | ● C. DE MURCIA | ● C. DE MADRID |
| ● CASTILLA Y LEÓN | ● CASTILLA LA MANCHA | ● EXTREMADURA | ● ANDALUCÍA |

Graphic nº 7: Distribution of cranes by Autonomous Community, during December

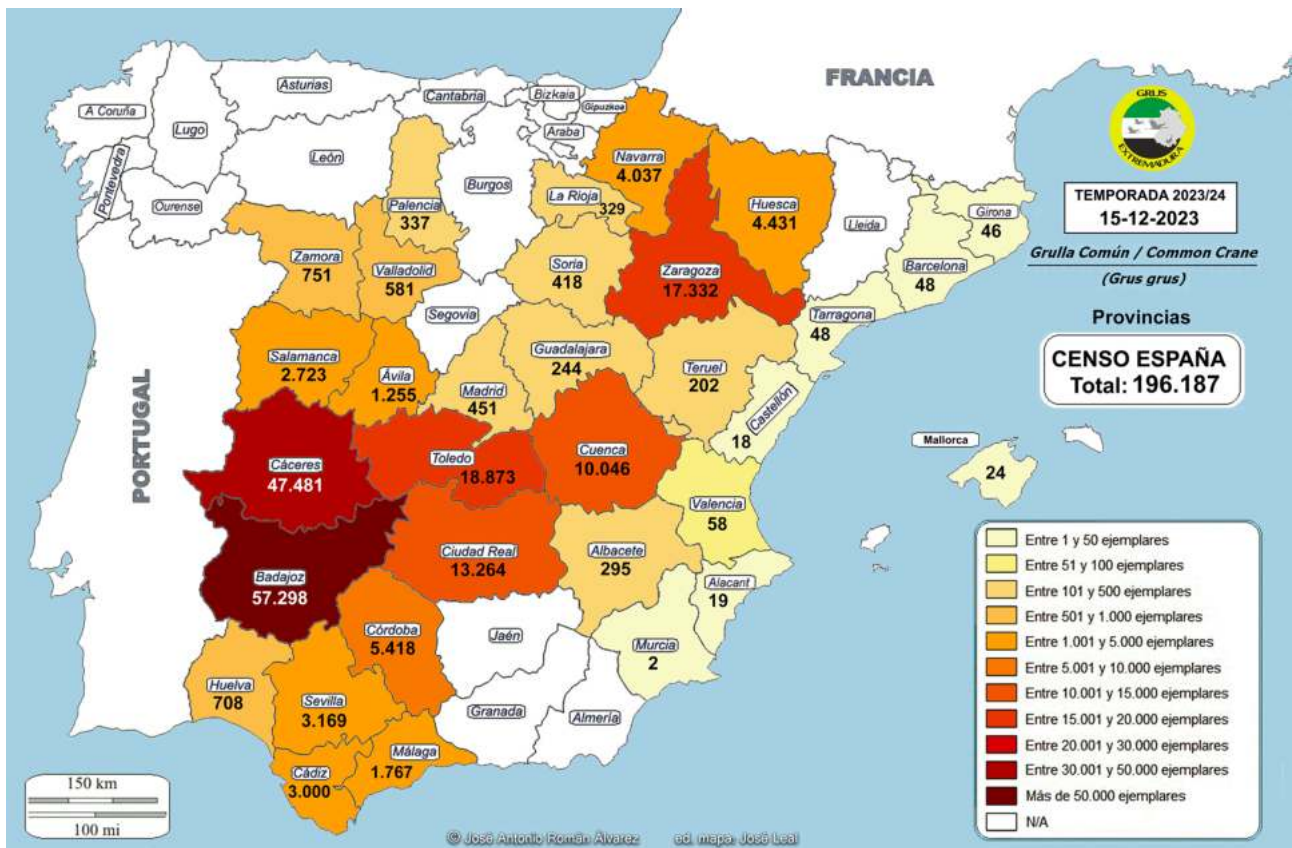
Regarding provincial distribution, Badajoz continued being the province with most wintering birds, with 57,298 individuals (29%), followed by Cáceres with 47,481 (24%), Toledo with 18,873 (9.6%), Zaragoza with 17,332 (8.8%), Ciudad Real with 13,264 (6.7%), Cuenca with 10,046 (5.1%), Córdoba with 5,418 (2.7%), Huesca with 4,431 (2.2%), Navarra with 4,037 (2%), Sevilla with 3,169 (1.6%), Cádiz with 3,000 (1.5%), Salamanca with 2,723 (1.4%), Málaga with 1,767 (0.9%), Ávila with 1,255 (0.6%), Zamora with 751 (0.3%), Huelva with 708 (0.3%), Valladolid with 581 (0.3%), Madrid with 451 (0.2%), Soria with 418 (0.2%), Palencia with 337 (0.2%), La Rioja with 329 (0.1%), Albacete with 295 (0.1%), Guadalajara with 244 (0.1%), Teruel with 202 (0.1%), Valencia with 58, Barcelona and Tarragona with 48, Girona with 46, Mallorca with 24, Alicante with 19, Castellon with 18 and Murcia with 2 birds.

The cranes seen in La Rioja, Guadalajara, Madrid, half of those in Navarra, in Castellon and Barcelona were birds on migration.



- | | | | | | | |
|-------------|--------------|---------------|-----------|------------|------------|---------------|
| ● NAVARRA | ● HUESCA | ● ZARAGOZA | ● TERUEL | ● LA RIOJA | ● GIRONA | ● BARCELONA |
| ● TARRAGONA | ● CASTELLÓ | ● VALENCIA | ● ALACANT | ● MURCIA | ● MALLORCA | ● PALENCIA |
| ● ZAMORA | ● VALLADOLID | ● SALAMANCA | ● ÁVILA | ● SORIA | ● MADRID | ● GUADALAJARA |
| ● TOLEDO | ● CUENCA | ● CIUDAD REAL | ● CÁCERES | ● BADAJOZ | ● CÓRDOBA | ● SEVILLA |
| ● HUELVA | ● CÁDIZ | ● MÁLAGA | | | | |

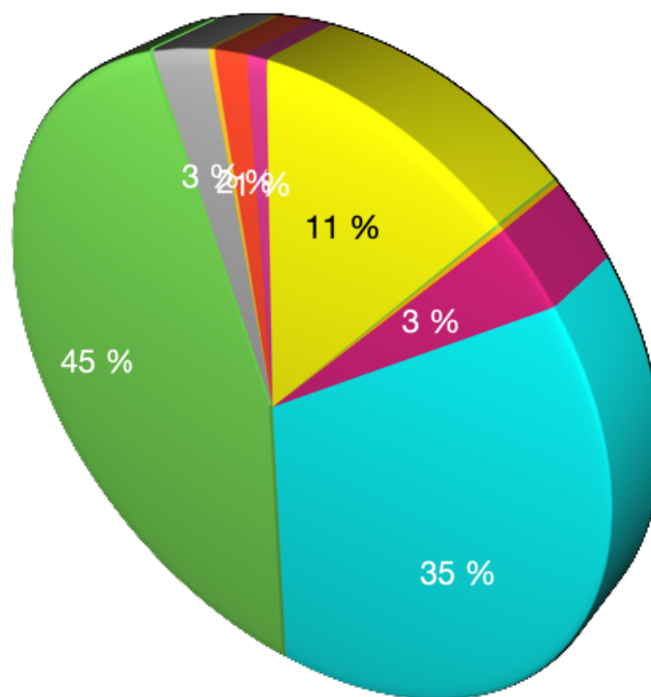
Graphic nº 8: Distribution of cranes by provinces during December



Map nº 33: Provincial distribution during December

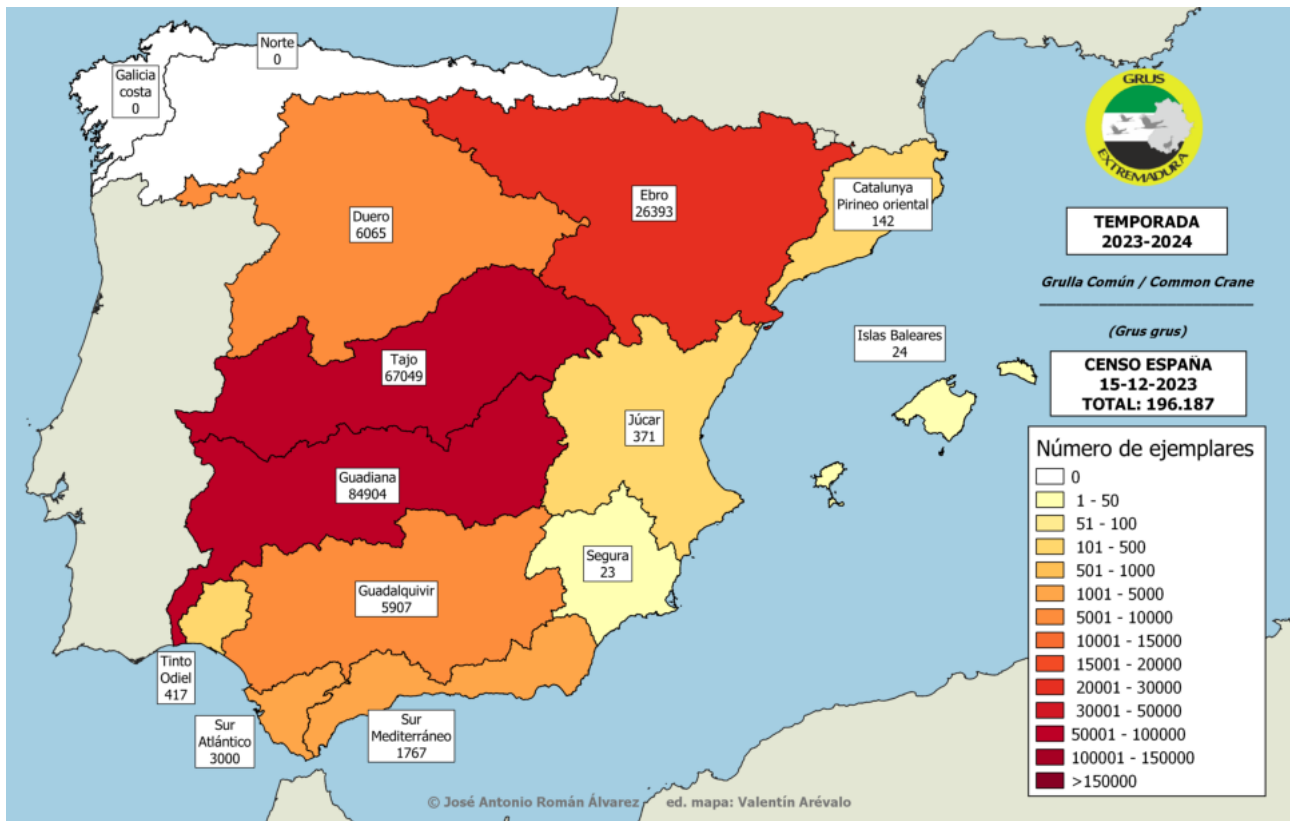
Distribution by water catchment areas shows how the Guadiana, with 84,904 cranes (45%), is the most important for the species, followed by the Tajo with 67,049 birds (35%), hosting 79% of the Spanish population. They are followed by the Ebro with 26,393 (11%), Duero with 6,065 (3.1%), Guadalquivir with 5,907 (3%), South Atlantic with 3,000 (1.5%), South Mediterranean with 1,767 (1%), Júcar with 371 (0.2%), Tinto with 417 (0.15%), Catalonia with 142 (0.07%), Balearics with 24 (0.01%) and Segura with 23 (0.01%). 90% of the cranes congregate in three water catchment areas: Guadiana, Tajo and Ebro.

Catchment areas December



- EBRO ● CATALUNYA ● BALEAR ● JÚCAR ● SEGURA
- DUERO ● TAJO ● GUADIANA ● GUADALQUIVIR ● TINTO
- SUR ATLÁNTICO ● SUR MEDITERRÁNEO

Graphic nº 9: Crane distribution by water catchment area in December



Map nº 34: Distribution by water catchment area during December

Navarra

In Navarra, wintering birds were recorded in 7 localities, with a total of 4,037 individuals. The locality with the most was the rice fields of Figarol/Alera with 866 birds. Half of the birds censused during this day were birds on migration, which continued in the following days.

Aragón

24 localities were censused, 10 of them with negative results. The highest number of wintering birds was recorded at Gallocanta lagoon, with 9,440.

By provinces, Zaragoza with 17,332 birds (79%) hosted the majority of wintering birds, followed by Huesca with 4,431 cranes (20%) and Teruel with 202 (1%).

La Rioja

329 cranes were detected in two localities, Sotos de Alfaro and Arnedo, all on active migration.

Navarra-Aragón sectors

The distribution by Navarra-Aragón sectors was as follows:

-Sector Cinco Villas-Sotonera, which encompasses all the localities in Navarra and the Aragonese reservoirs at Sotonera, Almodévar and San Salvador reservoirs in Huesca, Cotaz, Turruquiel and the reservoirs of La Loteta and Malvecino in Zaragoza, and Sotos de Alfaro and Arnedo in La Rioja.

The total for this sector was 12,918 cranes (54%).

-Sector Bajo Ebro, covering Hoyo de la Cruz, salt flats at Alcañiz and Valdecenicera, Mequinenza and Venta El Esquilao reservoirs, all in Zaragoza province.

735 cranes (3%) were counted.

-Sector Gallocanta, taking all the lagoons in Guadalajara (Méndez, Mojones, etc) and the Zaragoza localities of Gallocanta lagoon, Parada and La Zaida lagoon, and El Raso, El Becerril and Guilaguerrero lagoon in Teruel.

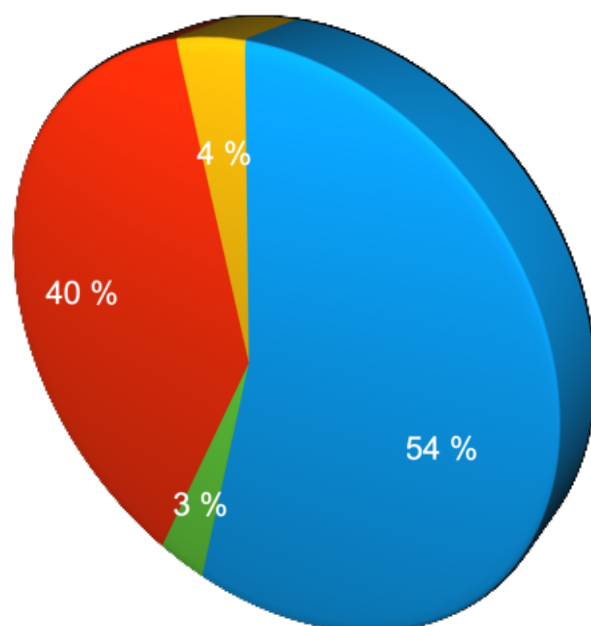
9,570 cranes (40%) were censused.

-Sector Cinca Medio, which includes the rice fields at Selgua and San Salvador reservoir in Huesca province.

907 cranes (4%) were counted.

94 % of the birds were distributed in the Cinco Villas/Sotonera and Gallocanta sectors.

NAVARRA-ARAGÓN SECTORS



● CINCO VILLAS-SOTONERA ● BAJO EBRO ● GALLOCANTA ● CINCA MEDIO

Graphic nº 10: Crane distribution by Navarra-Aragón sectors during December

CATALONIA

142 cranes were counted in 8 localities in three of the Catalan provinces; 2 were in Gerona (32.3%), 2 in Barcelona (33.8%), all birds on migration, and 3 in Tarragona (33.8%), some of which could also have been migrants.

COMMUNITY OF VALENCIA

97 cranes were counted in it, in the three provinces. In Castellon, 10 localities were counted and only two recorded birds (18.5%), all of them on migration, with a second record for the Columbretes Islands. They were seen in 4 localities in Valencia (60%), probably most were migrants. In Alicante, only 2 localities (19%), but these were wintering birds, particularly at El Hondo reservoir, where numbers fluctuate.

COMMUNITY OF MURCIA

Two birds detected at one locality, which would be in transit.

BALEARIC ISLANDS

Only two localities on Majorca Island hosted birds, with a total of 24 individuals.

CASTILE-Y-LEÓN

6,065 birds were counted in Castile-y-León, although the figure must be higher, as the census at Riobobos weir (SA) was estimated due to the fog, and in Ávila one at the foot of the Sierra de Gredos could not be censused, so the true figure must exceed 7,000 cranes. 751 (12.3%) were counted at the locality of Villafáfila, in Zamora; 337 (5.5%) at two lagoons in Palencia; 581 (9.5%) in 3 localities in Valladolid; 2,723 (44.9%) in 4 localities in Salamanca; 1,255 (20.7%) at 2 localities in Ávila, and in Soria, 418 birds were on migration.

COMMUNITY OF MADRID

In Madrid, 451 cranes, probably all migrants, were counted in 8 localities, 5 to the south of the Sierra de Guadarrama, 2 in the capital itself and one to the south-east of it.

CASTILE-LA-MANCHA

The second most important autonomous community for wintering cranes with a total of 42,911 birds, although the true figure should be around 45,000, as one locality could not be censused.

In Guadalajara, all the birds were migrants: 244 (0.5%) in 2 localities and heard in the capital; in Cuenca, 10,046 (23.4%) were counted in 6 localities; in Albacete, 295 (0.7%) in two localities, although almost all were concentrated in Pétrola; in Toledo, 18,873 (44%) in 15 localities, some of them migrants, such as those at Talavera de la Reina, and 2 significant nuclei on the River Tiétar could not be counted – in this province due to the rains that produced temporary lagoons that hosted fluctuating and changing roosts that perhaps could not be properly quantified, but they probably exceeded 20,000 individuals. In Ciudad Real, 13,264 birds (30%) were at 11 localities.

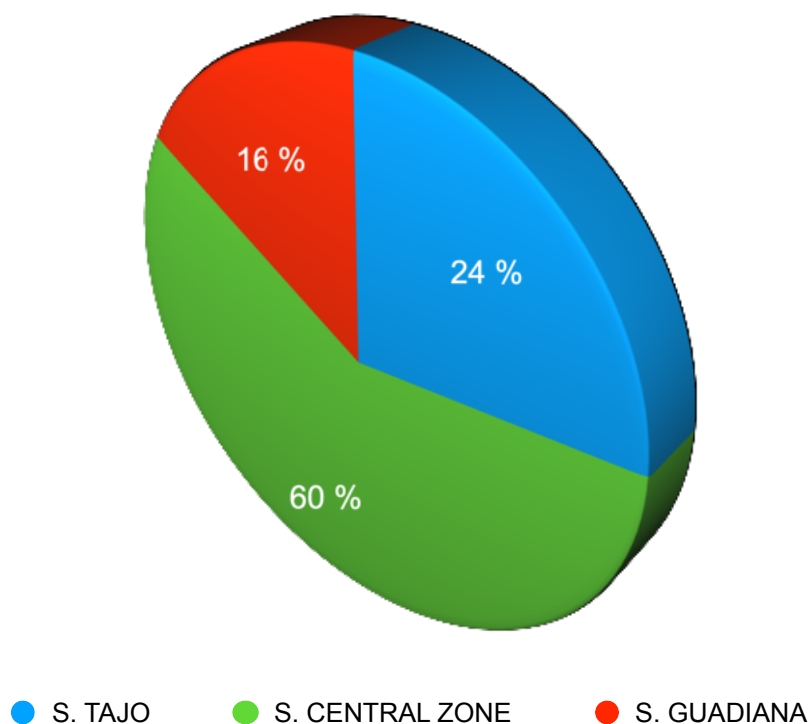
EXTREMADURA

Extremadura continues to be the most important for wintering cranes, with 105.119 birds distributed through 11 sectors (2 in Cáceres, 6 in Badajoz and 3 shared between both provinces), 24 localities in Cáceres province and 41 in Badajoz. Some could not be counted in both provinces, so there must have been over 107,000 birds, at least.

Although comprised of 2 provinces, we divide Extremadura into 3 sectors: Tajo (Cáceres province), Central Zone (in both provinces) and Guadiana (Badajoz province). 25,036 (24%) were counted in the Tajo sector, 62,942 (60%) in the Central Zone and 17,141 (16%) in the Guadiana.

The importance of the Central Zone is such that it is home to half the birds in Extremadura and 32% of the Spanish population. This is an area mostly dedicated to irrigated crops, with thousands of hectares sown with maize and rice, although good areas of dehesas are retained on the periphery, which host several thousand birds. In the other two sectors, the great majority of the cranes use dehesas for feeding and resting.

EXTREMADURA DECEMBER



Graphic nº 11: Crane distribution by sectors in Extremadura during December

ANDALUCÍA

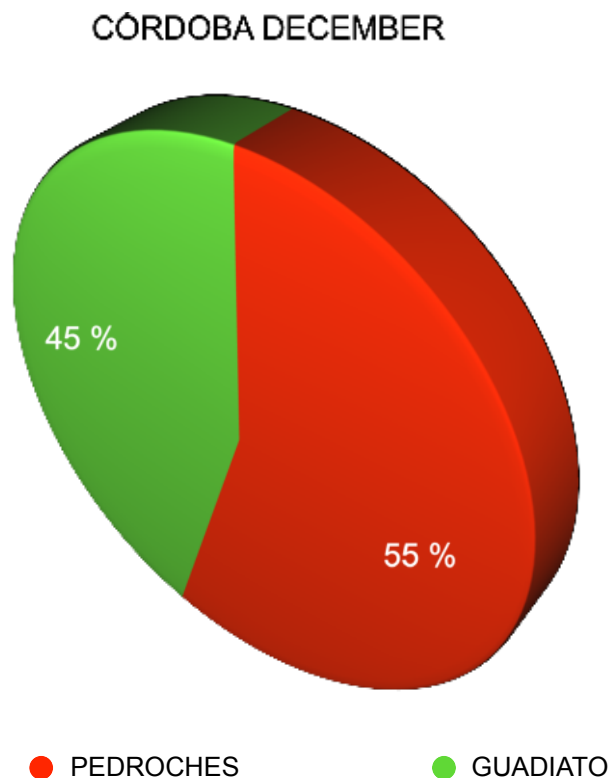
In Andalucía 14,062 cranes were counted in December, of which 5,418 (38.8%) were in 11 localities in Córdoba, 3,169 (22%) in 10 in Seville, 708 (5%) in 2 in Huelva, 3,000 (21.5%) in 4 in Cádiz, 1,767 (12.6%) in a single locality in Málaga and no wintering birds were found in Granada.

The dehesas in Córdoba hosted the majority of Andalusian cranes, some of these birds using feeding and resting habitats shared with Badajoz and Ciudad Real, as many feed in these dehesas and then gather to roost in wetlands such as La Serena reservoir, Badajoz, with some inlets that reach into Ciudad Real, so it is not always possible to count them all, despite the census effort.

Something similar occurs in the Alto Guadiato, where many birds feed in Córdoba and then gather to roost in Badajoz, or vice-versa, depending on the available resting places.

Two sectors are identified in this province, which are in the Los Pedroches district in the Guadiana catchment area and the Alto Guadiato, in the Guadalquivir catchment area.

55% (2,964 birds) occupied Los Pedroches, while 45% (2,446 individuals) occupied the Alto Guadiato.



Graphic nº 12: Distribution of the Córdoba cranes by sectors during December

SECOND CENSUS

The second Iberian census took place on the **19th of January** and was affected by the irruption of a significant Atlantic weather front (Juan) in the previous 48 hours, which produced widespread heavy rain in the west and centre and snow in the northern-most latitudes. This resulted in many tracks being impassable and caused difficulties in reaching the observation points; many seasonal waterbodies were filled up and used opportunistically by cranes for roosting, so they didn't go to some large roosts that they had gone to in the previous days (or in December), notably fragmenting the concentrations of birds. This led to a drastic reduction of birds at traditional roosts, and there were even some negative results in communities such as Extremadura, Castile-y-León and Castile-la-Mancha. At the same time, the increased water level at some of these reservoirs significantly reduced the shorelines, making roosting impossible so that birds had to look for alternative sites.

In some cases, sticking to the designated date to make a single visit to roost sites, without having made a previous visit to count or estimate bird numbers, as well as the possible changes in roost sites, obtained results that represent a clear undervaluation.

All these factors affected the census and the numbers obtained do not reflect the reality of the wintering.

As a result of the snow storm, there were movements towards the southwest of the peninsula, and migrants were seen on the census day and following days over Guadalajara and Madrid.



Image nº 63: Poster for the second census. Photo: Juan J. Negro

Distribution by Autonomous Community

The result obtained was **174,869** cranes. Extremadura continued to be the principal wintering area with 87,932 birds (50%), although it was the one that showed the greatest decrease (due to the circumstances explained above), followed by Castile-la-Mancha with 30,985 (17.7%) which was also a reduction, as with Extremadura, due to the changes at roost sites caused by the stormy weather front.

Aragón followed, with 29,818 (17%) which increased the count recorded in December by a little over 7,000 individuals. In Andalucía, 12,496 cranes (7%) were counted, a figure slightly below December's, with a significant decrease in Doñana National Park.

The wintering numbers were maintained in Castile-y-León with 6,613 (3.8%), although there was a shift towards the dehesas of Salamanca. In Navarra, 6,492 (3.7%) were counted, registering an increase of more than 2,000 birds compared to December. 387 were counted in Madrid, mostly migrants, but confirming wintering at one locality. 67 were counted in Catalonia, 40 in Valencia, 5 on the Balearic Islands and no birds were recorded in Murcia.

The community which had the biggest decrease was Extremadura, by some 20,000 cranes, due to the fragmentation of roost sites and the impossibility of covering them. Castile-la-Mancha also went down because of the same factors, and the numbers increased in Aragón by more than 7,000 birds, and in Navarra by another 2,000. Numbers were stable in Castile-y-León and Andalucía. They went down in Catalonia, the Balearic Islands and Valencia.

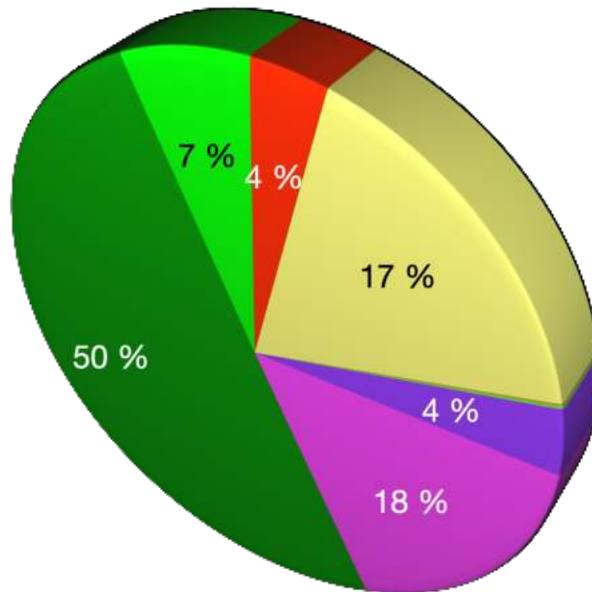
We estimate that the true number of cranes in Spain should be over **200,000** birds.

RESULTS BY AA..CC.

	December	January
NAVARRA	4037	6492
LA RIOJA	329	33
ARAGÓN	22027	29818
CATALUNYA	142	67
C. VALENCIANA	97	40
ILLES BALEARS	24	5
C. DE MURCIA	2	0
C. DE MADRID	451	387
CASTILE-Y- LEÓN	6065	6613
CASTILE-LA-MANCHA	43832	30985
EXTREMADURA	105119	87932
ANDALUCÍA	13952	12496
ESPAÑA	196187	174869

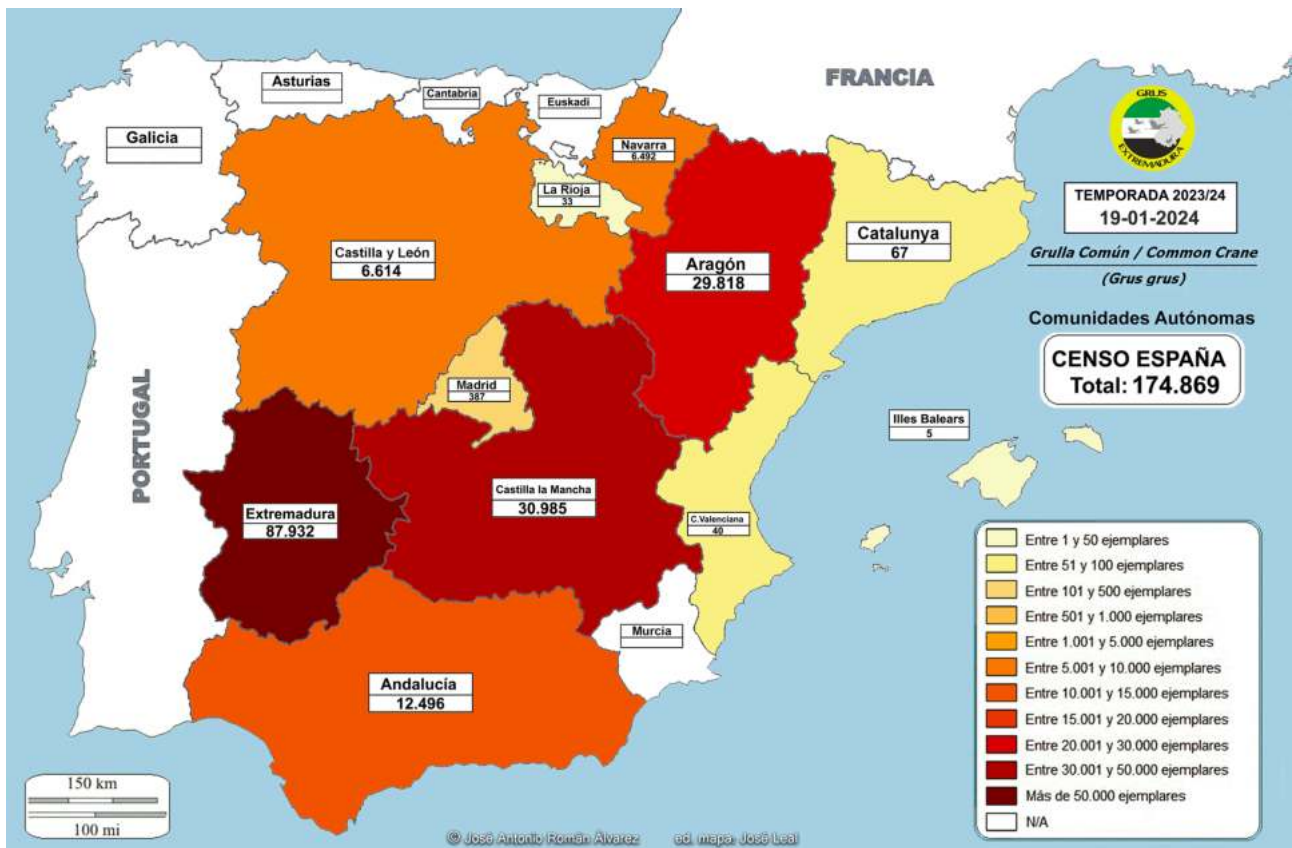
Table nº 1: Results of the census by Autonomous Community

Autonomous Community. January 2024



- NAVARRA
- LA RIOJA
- ARAGÓN
- CATALUNYA
- C. VALENCIANA
- ILLES BALEARS
- C. DE MURCIA
- C. DE MADRID
- CASTILLA Y LEÓN
- CASTILLA LA MANCHA
- EXTREMADURA
- ANDALUCÍA

Graphic nº 13: Crane distribution by Autonomous Community during January



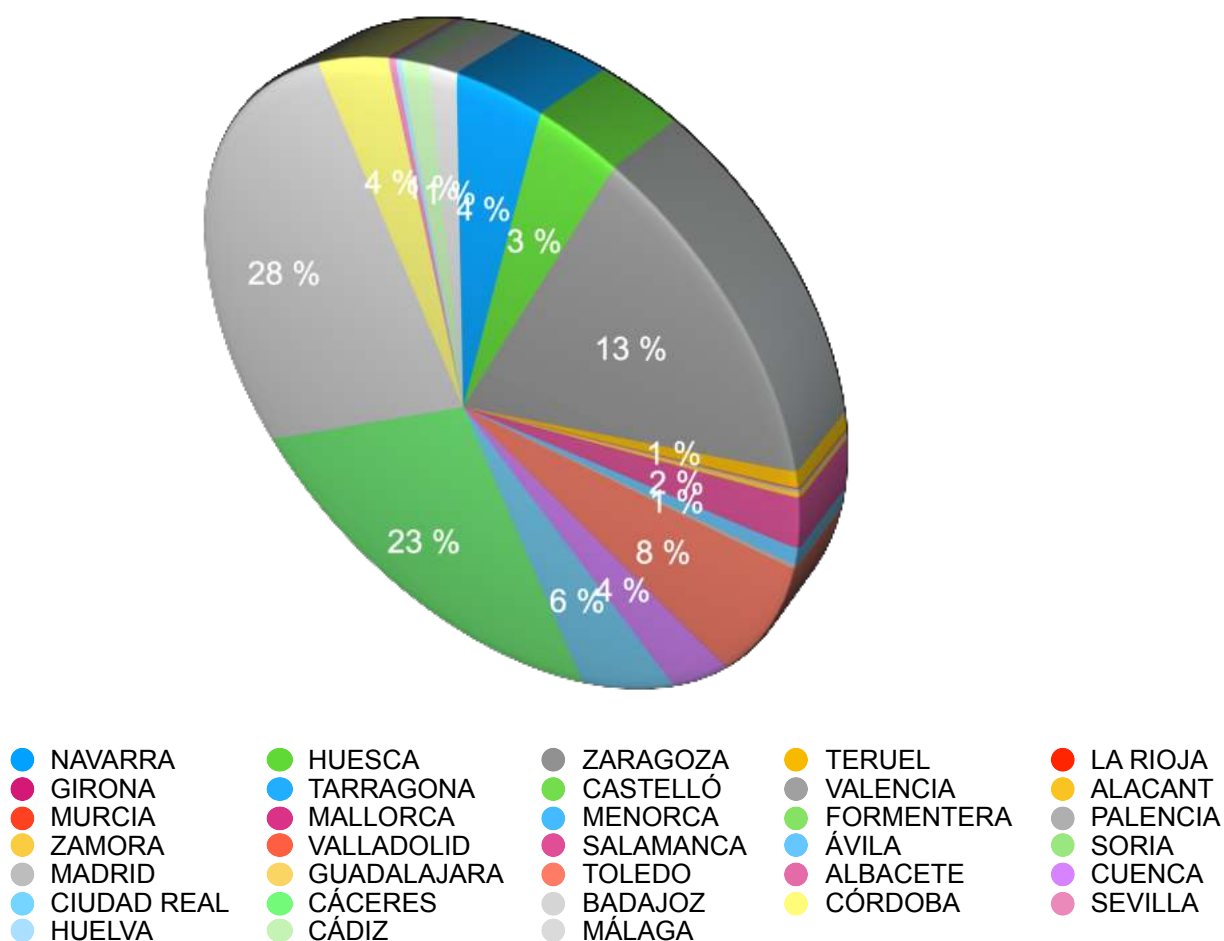
Map nº 35: Results of the January census by Autonomous Community

Provincial distribution

By provinces, Badajoz with 48,239 cranes (27.6%) continues to be the most important for wintering cranes, followed by Cáceres with 36,693 (22.7%), Zaragoza with 23,132 (13.2%), Toledo with 13,629 (7.8%) and Ciudad Real with 10,473 (6%). Together, these provinces represent 77% of the total number of wintering birds.

They are followed by Córdoba with 6,774 (3.9%), Cuenca with 6,643 (3.8%), Navarra with 6,492 (3.7%), Huesca with 5,755 (3.2%), Salamanca with 4,329 (2.4%), Cádiz with 2,367 (1.3%), Málaga with 2,237 (1.3%), Ávila with 1,508 (0.9%), Teruel with 1,311 (0.7%), Sevilla with 635 (0.4%), Zamora with 445 (0.2%), Huelva with 483 (0.3%), Madrid with 387 (0.2%), Albacete with 210 (0.1%), Palencia 195 (0.1%), Valladolid 110, 53 in Girona, 33 in La Rioja, 30 in Guadalajara, 19 in Alicante, 14 in Tarragona, 5 in Valencia, 3 on Menorca, 1 on Mallorca and 1 on Formentera. There were no wintering birds in Granada.

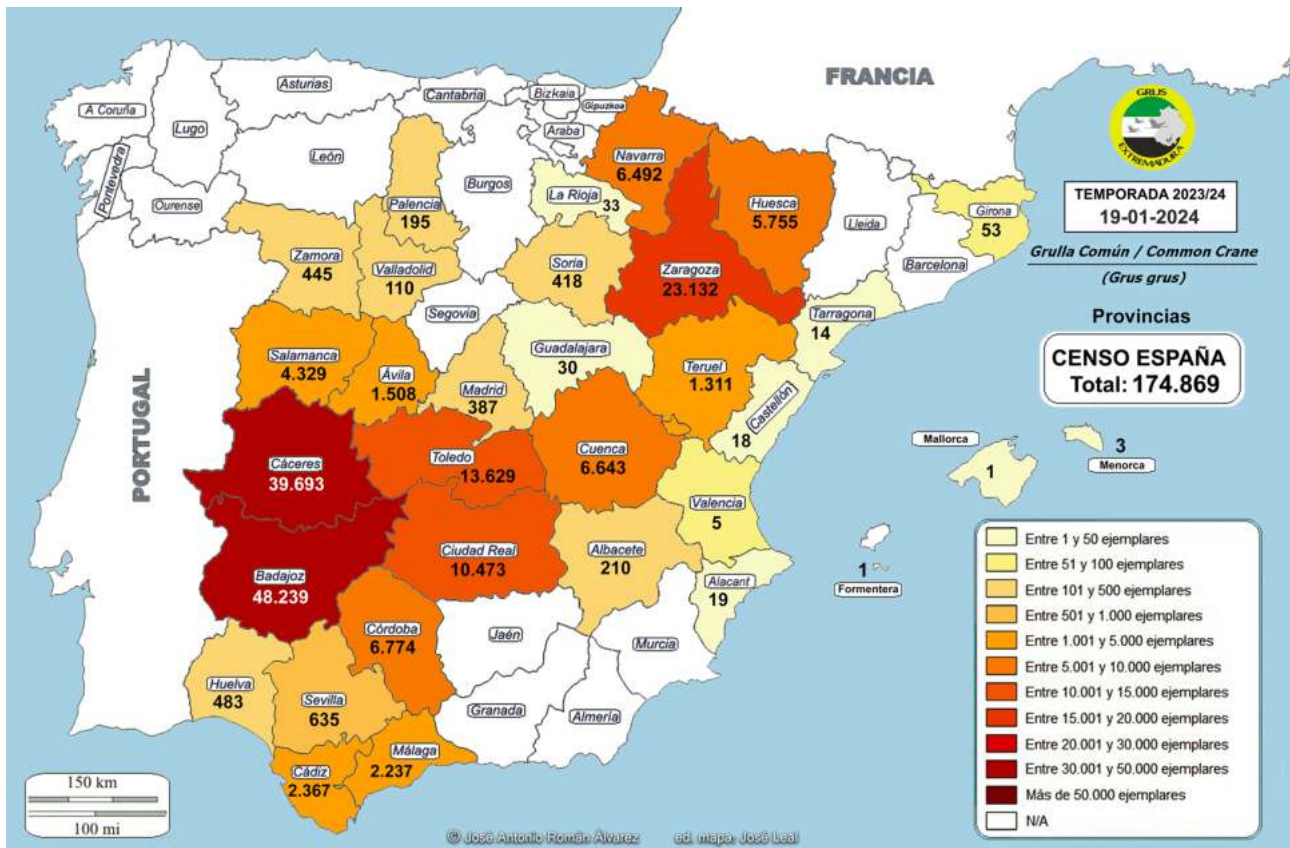
PROVINCES JANUARY



Graphic nº 14: Distribution by provinces in January

RESULTS BY PROVINCES

	DECEMBER	JANUARY
NAVARRA	4037	6492
HUESCA	4431	5755
ZARAGOZA	17332	23132
TERUEL	202	1311
LA RIOJA	329	33
GIRONA	46	53
BARCELONA	48	0
TARRAGONA	46	14
CASTELLÓ	18	0
VALENCIA	58	5
ALACANT	19	19
MURCIA	2	0
MALLORCA	24	1
MENORCA	0	3
FORMENTERA	0	1
PALENCIA	337	195
ZAMORA	751	445
VALLADOLID	581	110
SALAMANCA	2723	4329
ÁVILA	1255	1508
SORIA	418	0
MADRID	451	387
GUADALAJARA	244	30
ALBACETE	294	210
TOLEDO	18873	13629
CUENCA	10046	6643
CIUDAD REAL	13264	10473
CÁCERES	47481	39693
BADAJOS	57298	48239
CÓRDOBA	5418	6774
SEVILLA	3169	635
HUELVA	598	483
CÁDIZ	3000	2367
GRANADA	0	0
MÁLAGA	1767	2237



Map nº 36: Provincial distribution in January

Distribution by water catchment areas

By water catchment areas, the Guadiana with 70,986 (40.6%) was the one that hosted the most birds, followed by the Tajo with 53,739 (30.7%) and Ebro with 36,343 (20.8%) which represents 91 % of the total.

They are followed by the Duero with 6,614 (3.8%), South Atlantic with 2,367 (1.3%), South Mediterranean with 2,237 (1.3%), Guadalquivir with 1,819 (1.1%), Tinto with 439 (0.2%), Júcar with 215 (0.1%), 67 in Catalonia, 19 in the Segura and 5 in the Balearics.

The catchment area which lost the most birds compared to December was the Guadiana with 14,000 birds less, due to the roost site changes; nevertheless, it still hosted more than 40% of the migrants in both periods. A moderate decrease of 4,000 birds was also registered in the Tajo, while there was an increase of over 16,000 cranes in the Ebro.

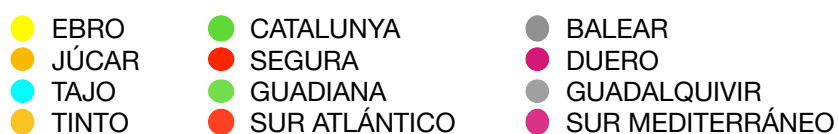
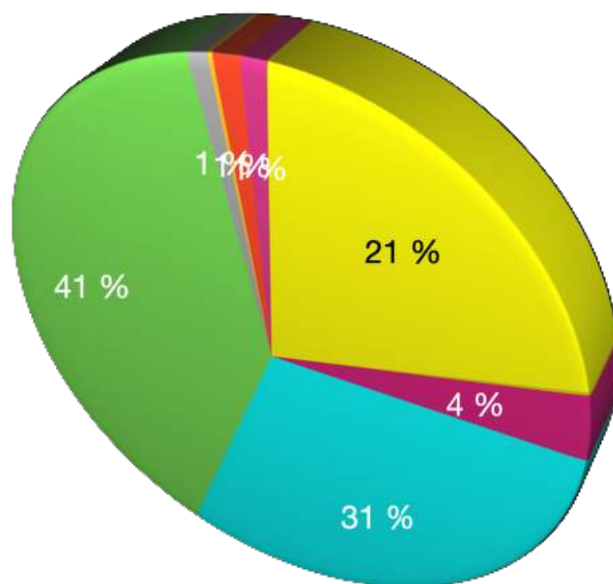
The collapse in the Guadalquivir draws attention, due to the deplorable water situation in the Doñana National Park. Numbers also went down in Catalonia, the Balearics, and more moderately in the Segura and Júcar and staying stable in the Duero, South Atlantic and South Mediterranean.

RESULTS BY CATHMENT AREAS

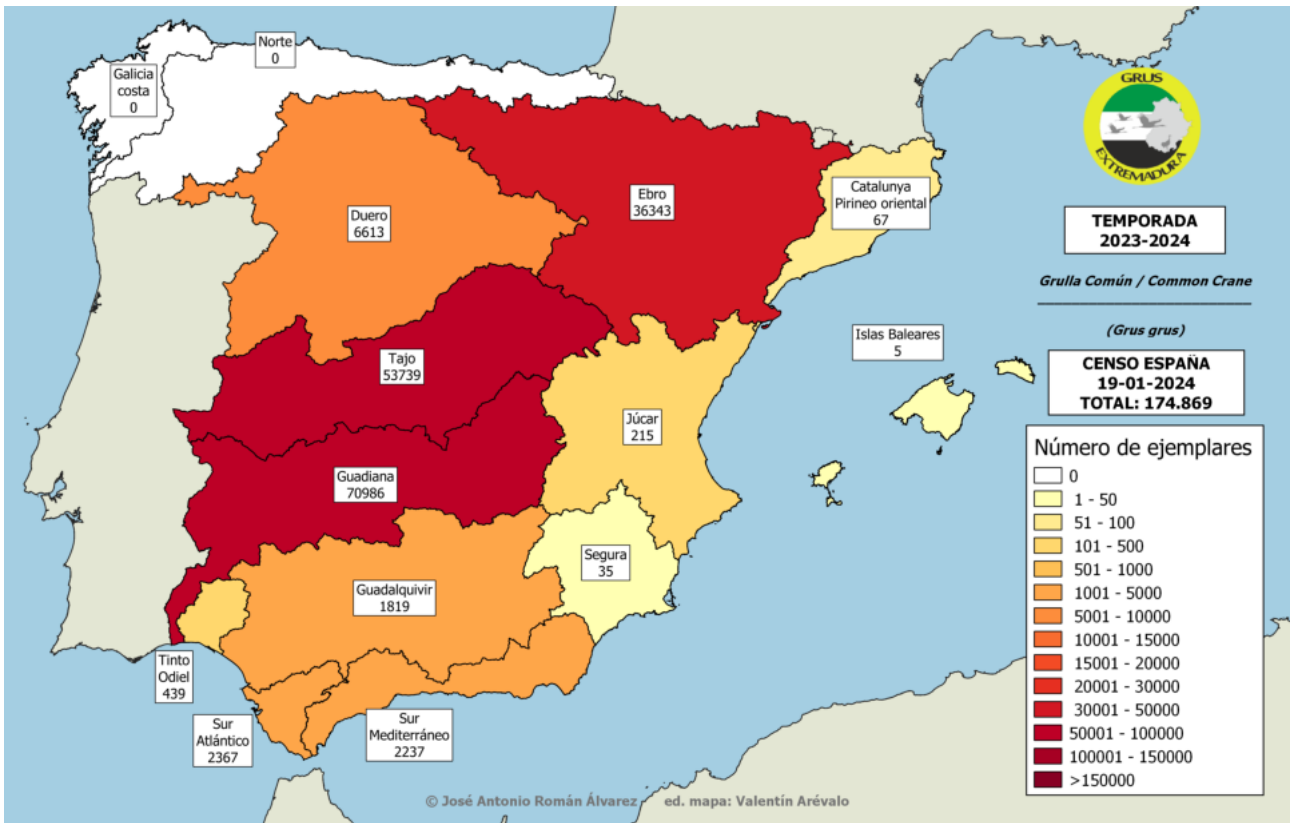
	DECEMBER	%	JANUARY	%
EBRO	20393	10,4	36343	20,8
CATALUNYA	142	0	67	0
BALEAR	24	0	5	0
JÚCAR	371	0,2	215	0,1
SEGURA	23	0	19	0
DUERO	6065	3,1	6613	3,8
TAJO	67049	34,1	53739	30,7
GUADIANA	84904	43,2	70986	40,6
GUADALQUIVIR	5616	2,9	1819	1,1
TINTO	417	0,2	439	0,2
SUR ATLÁNTICO	3000	1,5	2367	1,3
SUR MEDITERRÁNEO	1767	1	2237	1,3

Table nº 3: Crane distribution by water catchment area in January

CATCHMENT AREAS IN JANUARY



Graphic nº 15: Distribution by water catchment area in January



Map nº 37: Crane distribution by water catchment area in January

GENERAL WINTERING RESULTS

NAVARRA

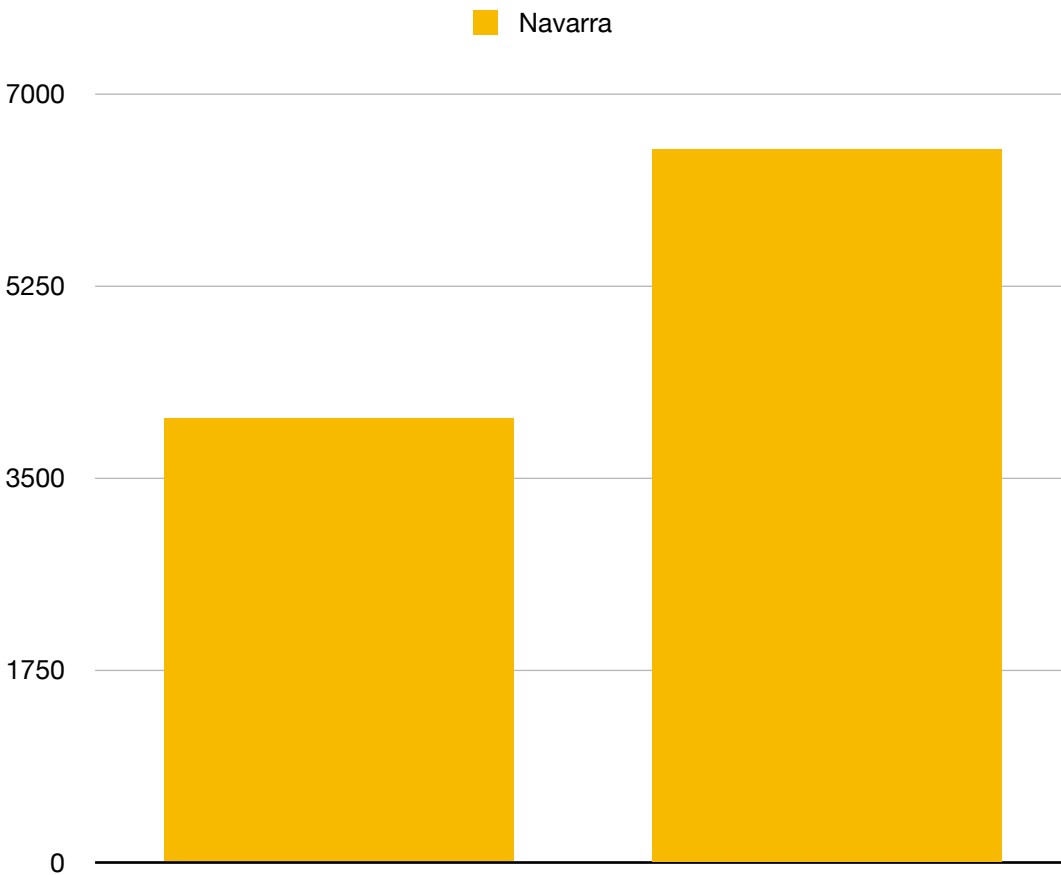
7 localities in Navarra were censused in both periods and active migration was also recorded on both occasions.

In December, 4,037 were counted and 6,492 in January, which means an increase of almost 2,500 birds. This was especially significant in the Figarol/Alera area, bordering Aragón and shared with the nucleus at Ejea de los Caballeros.

Migration in January was much lower than the level detected in December.

LOCALITY	PROVINCE	MUNICIPALITY	12/15/2023	01/19/2024
Arrozales Arguedas	Navarra	Arguedas	450	400
Arrozales Figarol/Alera	Navarra	Figarol y Alera	866	3952
Arrozales de la Rada	Navarra	La Rada	156	0
Embalse de las Cañas	Navarra	Viana	1	0
Laguna de Pitillas	Navarra	Pitillas	314	1680
Balsa de la Mueda	Navarra	La Mueda	0	1
Migración activa	Navarra		2250	459
Balsa de la Zolina	Navarra		55	0
NAVARRA			4037	6492

Table nº 4: Results of the censuses by locality in Navarra



Graphic nº 16: Census comparison in Navarra

ARAGÓN

In Aragón, 22,027 cranes were censused in December (11%) and 29,818 in January, increasing by more than 7,000 individuals in the second census, with increases in the three provinces. A total of 28 localities were visited, 5 in Huesca province, 7 in Teruel and 16 in Zaragoza.

The most important roost site in Huesca is located at the Sotonera reservoir, although in December the cranes chose Almodévar reservoir, even though they are the same population. 80% of Huesca's cranes are concentrated in this nucleus. This province maintained a stable population (20%/19%).

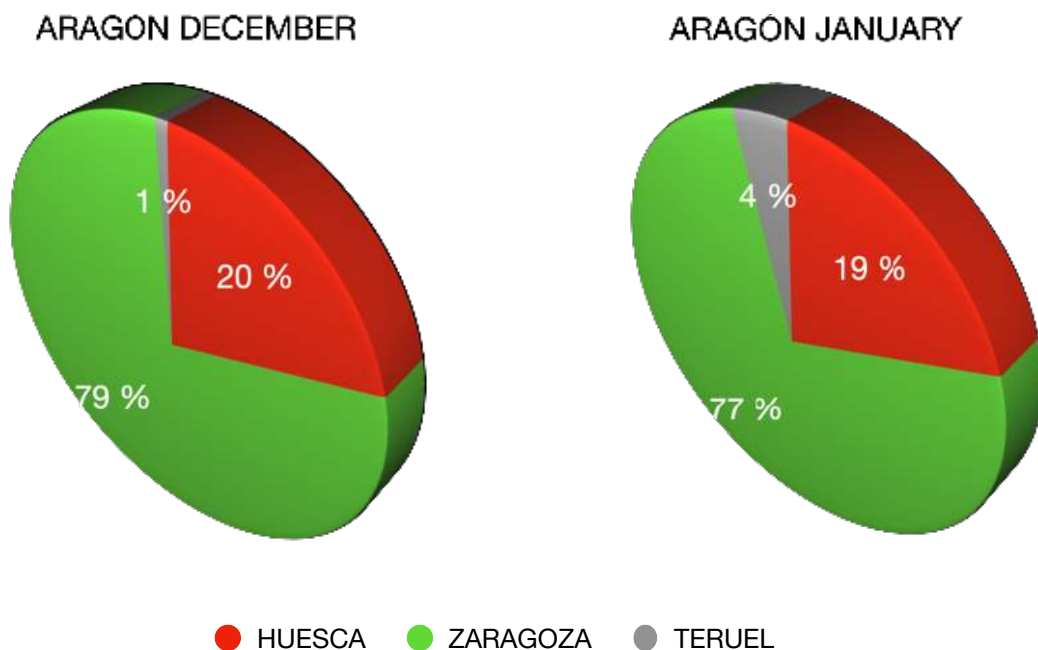
In Teruel it was El Cañizar lagoon that hosted the largest number of birds, increasing considerably in January. Some birds were also recorded at Lechago reservoir in both periods. The population increased in January (1%/4%).

The majority of cranes in Zaragoza were located at Gallocanta lagoon, which maintained a stable population, followed by the Ejea de los Caballeros nucleus, which increased in January, Velereña, which also increased the number, and La Loteta reservoir (which doubled the number). The population remained stable in both periods (79%/77%).

ARAGÓN

PROVINCE	DECEMBER	JANUARY
HUESCA	4431	5755
ZARAGOZA	17332	23132
TERUEL	202	1311

Table nº 5: Census results in Aragón by provinces



Graphic nº 17 & 18: Provincial distribution of the cranes in both periods

LOCALITY	PROVINCE	MUNICIPALITY	12/15/2023	01/19/2024
Arrozales de Selgua	Huesca	Selgua y Monzón	0	
Embalse de la Sotonera	Huesca	Montmesa, Ortila	130	4135
Embalse de S. Salvador	Huesca	Binaced	907	
Clamor Vieja	Huesca	Castelflorite		1240
Embalse de Almudévar	Huesca	Almudevar	3394	
Laguna de Cañizar	Teruel	Villarquemado y Cella	130	1038
Saladas de Alcañiz	Teruel	Alcañiz	63	66
Laguna el Raso	Teruel	Odón	0	0
Laguna El Mojón	Teruel	Odón	0	0
Embalse de Lechago	Teruel	Lechago	9	207
Laguna del Becerril	Teruel	El Pobo de la Sierra	0	0
El Balsón (Ojos Altos)	Teruel	Camínreal		0
Laguna de Gallocanta	Zaragoza	Gallocanta	9440	9675
Embalse de la Loteta	Zaragoza	Pedrola	1156	2732
Plano de de Buena Vista	Zaragoza	Ejea de los Caballeros		2780
El Cotaz	Zaragoza	Ejea de los Caballeros	3010	4140
Turruquiel	Zaragoza	Ejea de los Caballeros	500	322
Valdecenicera	Zaragoza	Quinto de Ebro	0	0
Balsa Venta el Esquilao	Zaragoza	Quinto de Ebro	0	322
Elan	Zaragoza	Quinto de Ebro	672	
Valareña	Zaragoza	Valareña	2460	3250
Embalse de Mequinenza	Zaragoza	Chiprana	0	
Laguna de la Zaida	Zaragoza	Used	0	
Parada de Zaida	Zaragoza	Used	0	
Laguna de Güilguerrero	Zaragoza	Cubel	0	0
El Planerón	Zaragoza	Belchite	0	0
Embalse de Malvecino	Zaragoza	Pinsoro	0	
Hoyo de la Cruz	Zaragoza	Bujaraloz	94	233
ARAGÓN			22027	29818

Table nº 6: Results of the censuses by locality in Aragón

LA RIOJA

La Rioja didn't have wintering cranes, although in both periods birds were registered. This is because they were encountered on migration or were having a short stop at a traditional place, such as Sotos de Alfaro. They are recorded in the censuses as they coincided with the dates. 329 were counted in December, and 33 birds in January.

LOCALITY	PROVINCE	MUNICIPALITY	12/15/2023	01/19/2024
Laguna de Hervías	Logroño	Hervías	0	0
Sotos de Alfaro	Logroño	Alfaro	174	33
Arnedo	Logroño	Arnedo	155	
LA RIOJA			329	33

Table nº 7: Results of the censuses by locality in La Rioja

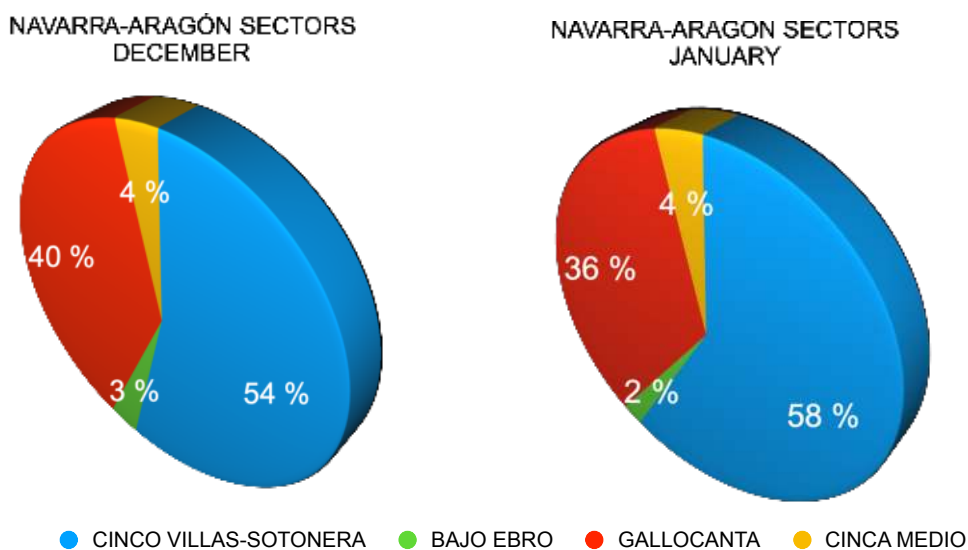
Navarra-Aragón sectors

The population in these sectors increased in January, going from 24,130 (54%) in December to 30,629 in January (58%). The biggest increase was in Cinco Villas-Sotonera, with almost 5,000 more cranes, and there were moderate increases in Gallocanta and Cinca Medio sectors, and a small decrease in the lower Ebro sector. It is possible that this increase was due to the arrival of migrants, particularly in January, as the largest count registered was in the most northerly sector

NAVARRA-ARAGÓN SECTORS

SECTOR	DECEMBER	JANUARY
CINCO VILLAS-SOTONERA	12918	17854
BAJO EBRO	735	615
GALLOCANTA	9570	10920
CINCA MEDIO	907	1240
TOTAL	24130	30629

Table nº 8: Results of the censuses by locality in the Navarra-Aragón sectors



Graphic nº 19 & 20: Distribution by sectors in both periods

CATALONIA

Migrants were recorded in Catalonia during the December census, but not in January's. All the cranes seen in Barcelona province, the 2 at Pals in Gerona, as well as those in Tarragona, but excluding those in the delta, correspond with birds on passage.

The only localities which had birds throughout the period were Aiguamolls de l'Empordá and the Ebro Delta,

LOCALITY	PROVINCE	MUNICIPALITY	12/15/2023	01/19/2024
Pals	Girona	Pals	2	
Aiguamolls de l'Empordá	Girona	Castelló d'Ampuries	44	53
Manresa	Barcelona	Manresa	40	
Rupit i Pruit	Barcelona	Rupit i Pruit	8	
Cambrils	Tarragona	Cambrils	34	
Calafell	Tarragona	Calafell	11	
Delta del'Ébre	Tarragona	Els. Muntells	3	5
Delta del'Ébre	Tarragona	Amposta		9
Delta del'Ébre	Tarragona	Sant Jaume d'Enveja		
CATALONIA			142	67

Table nº 9: Results of the censuses by locality in Catalonia

COMMUNITY OF MURCIA

In Murcia there was only one record of 2 individuals in the December census, probably birds that were resting in the area for a few days.

LOCALITY	PROVINCE	MUNICIPALITY	12/15/2023	01/19/2024
Torrealvilla	Murcia	Lorca	2	0
COMMUNITY OF MURCIA			2	0

Table nº 10: Results of the censuses by locality in the Community of Murcia

COMMUNITY OF VALENCIA

14 localities were visited in Valencia, 10 in Castellon, 4 in Valencia and 2 in Alicante. Only the localities of the Albufera Natural Park and surrounding area (Sueca) in Valencia and Alicante's El Hondo reservoir recorded birds in both periods. Wintering is regular at El Hondo, although only a small number come each winter. 97 were counted in December, half of them on migration, and 40 in January, the majority at El Hondo.

A highlight was the group of 16 cranes on the Columbretes Islands in December, where they rested on their migration and indicating that birds arrive over the sea in many cases.

LOCALITY	PROVINCE	MUNICIPALITY	12/15/2023	01/19/2024
Islas Columbretes	Castelló	Castellò	16	
Prat de Cabanes-Torreblanca	Castelló	Cabanes-Torreblanca	2	
Marjal de Almenara	Castelló	Xilxes	0	0
Marjal de Nules	Castelló	Nules	0	0
Laguna de Sant Mateu	Castelló	Sant Mateu	0	0
Laguna de la Jana	Castelló	La Jana	0	0
Balsa de Sant Jordi	Castelló	Sant Jordi	0	0
Balsa de Iryda	Castelló	Sant Jordi	0	0
Balsa de Lores	Castelló	Traiguera	0	0
Desembocadura del Mijares	Castelló	Almazora	0	0
Marjal dels Moros	Valencia	Sagunto	8	0
R.N de l'Albufera	Valencia	Valencia	1	
Marjal de Socarrada	Valencia	Sueca	7	5
Serra de Mariola	Valencia	Banyeres de Mariola	42	
Marjal de Pego-Oliva	Alacant	Pego-Oliva	3	
El Hondo	Alacant	Elx	18	35
COMMUNITY OF VALENCIA			97	40

Table nº 11: Results of the censuses by locality in the Community of Valencia

BALEARIC ISLANDS

Cranes were only permanently present, in low numbers, at the s'Albufera de Mallorca Nature Reserve. In January, birds were found on Formentera and Menorca, where no wintering birds were registered; these may have been birds coming from Mallorca. 24 birds were counted in December and 5 in January.

LOCALITY	PROVINCE	MUNICIPALITY	12/15/2023	01/19/2024
R.N. s'Albufera	Mallorca	Muro	14	1
El Toro	Mallorca	Calviá	10	
Estany Pudent	Formentera	Formentera		1
P. N Albufera d'es Grau	Taváritx	Menorca		3
BALEARIC ISLANDS			24	5

Table nº 12: Results of the censuses by locality in the Balearic Islands

CASTILE-Y-LEÓN

17 localities were visited in the Community: 1 in Soria, with birds on migration, 2 in Palencia, 1 in Zamora, 4 in Valladolid, 3 in Ávila and 5 in Salamanca. 6,065 were censused in December and 6,614 in January, retaining a very stable winter figure. Although the distribution changed during the period, birds moving to locations in Salamanca which doubled the number of birds in January. The census at Riobos Weir could not be done adequately due to fog in December and the rain in January, so the results are based on estimates or data on eBird.

In Zamora, the wintering population reduced by a third, without discounting that some cranes may have roosted at temporary pools. In Palencia, they almost disappeared from La Nava lagoon, but increased at Boada lagoon, probably from the former.

A new locality in Ávila province was a consequence of a washout being temporarily filled, the province maintained a stable population. In addition, in Valladolid province, there was a significant decrease resulting from the weather front that left tracks impassable, and cranes probably disperser to temporary pools, so the real figure for wintering birds in this community should be over 7,000 cranes.

LOCALITY	PROVINCE	MUNICIPALITY	12/15/2023	01/19/2024
Almazán	Soria	Almazán	418	
Laguna de la Nava	Palencia	Fuentes de Nava, Maza	185	3
Laguna de las Porciones	Palencia	Boada de Campos	152	192
Laguna de Villafáfila	Zamora	Otero de Sariegos, Villafáfila	751	445
Laguna de la Zarza	Valladolid	Gomeznarro	148	110
Laguna de los Mullidares	Valladolid	Lomoviejo	122	0
Cervillejo de la Cruz	Valladolid	Bobadilla del Campo	311	0
Aguasal y Llano de Olmedo	Valladolid	Olmedo		26
Laguna del Hoyo	Ávila	El Oso	929	849
Noharre	Ávila	Noharre		174
Garganta Sta María	Ávila	Candeleda	326	485
Rosarito Norte	Ávila	Candeleda	ND	ND
Emb. de Santa Teresa	Salamanca	Montejo, Salvatierra, Pelayos, La Tala	1559	2052
Azud de Riobos	Salamanca	Campo de Peñaranda, Villar Gallimazo	1000	2000
Charca del Campo	Salamanca	Sando	114	138
Charca los Altejos	Salamanca	Puebla de Yeltes, Tamames	50	89
Llanuras río Yeltes	Salamanca	Sancti Spiritus		50
CASTILE-Y-LEÓN			6065	6614

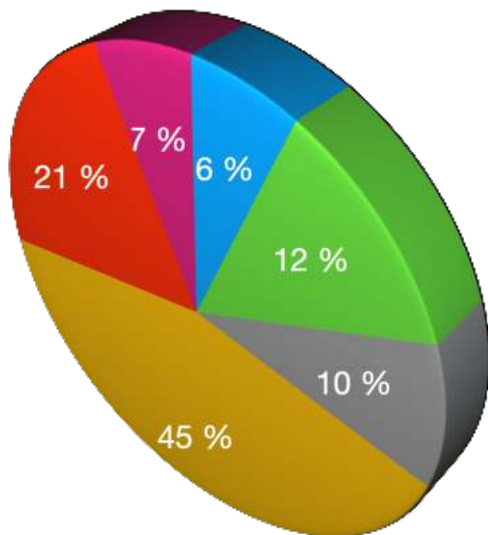
Table nº 13: Results of the censuses by locality in Castile-y-León

CASTILLA Y LEÓN

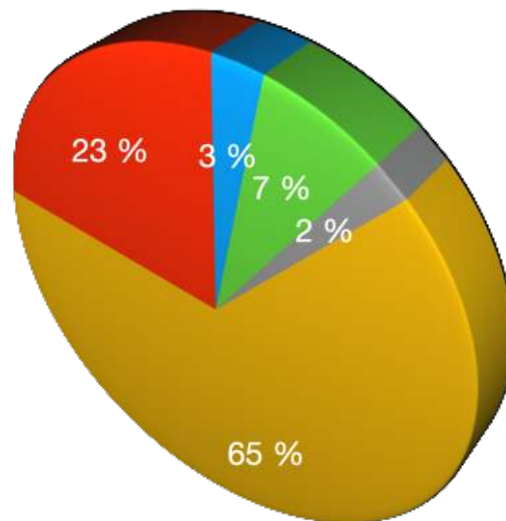
PROVINCE	DECEMBER	JANUARY
PALENCIA	387	198
ZAMORA	751	445
VALLADOLID	581	136
SALAMANCA	2723	4330
ÁVILA	1255	1508
SORIA	418	0

Table nº 14: Results of the censuses by province in Castile-y-León

CASTILE-Y- LEÓN DECEMBER



CASTILE-Y-LEÓN JANUARY



● PALENCIA ● ZAMORA ● VALLADOLID ● SALAMANCA ● ÁVILA ● SORIA

Graphic nº 21 & 22: Provincial distribution of cranes in Castile-y-León in both census periods

MADRID COMMUNITY

Wintering birds were only registered at a single locality in Madrid, at the El Pardo reservoir, which for the first time hosted a population throughout the period, although this reduced by almost half in January.

The remaining birds found on the censuses were birds migrating to the southwest; migrants continuing in December while those in January were a consequence of the storm.

LOCALITY	PROVINCE	MUNICIPALITY	12/15/2023	01/19/2024
Embalse del Pardo	Madrid	Madrid	250	131
Embalse de la Pedrezuela	Madrid	Guadalix de la Sierra	30	
Valdetorres de Jarama	Madrid	Valdetorres de Jarama	110	
Embalse de Valmayor	Madrid	S. Lorenzo del Escorial	3	
Madrid	Madrid	Madrid	2	20
Parla	Madrid	Parla	54	
Embalse de Peñascales	Madrid	Torreloayuna	1	
P.N. Sureste	Madrid	Arganda del Rey	1	90
Dehesa de Sevilla la Nueva	Madrid	Sevilla la Nueva		20
Las Rozas	Madrid	Las Rozas		70
Leganés	Madrid	Leganés		27
Dehesa de Navalvillar	Madrid	Colmenar Viejo		29
MADRID COMMUNITY			451	387

Table nº 15: Results of the censuses by locality in Madrid Community

CASTILE-LA-MANCHA

In Castile-la-Mancha, 43,832 cranes were censused in December and 30,985 in January. The drastic reduction in January was due to the rainy weather front which filled many seasonal pools, some of which were already full in December, resulting in the roosts at reservoirs in Ciudad Real, such as Povedas and Torre de Abraham, being reduced significantly. Additionally, some important locations in Toledo couldn't be censused due to a shortage of observers, so in reality the total figure should be over 45,000 individuals. We were able to visit 54 localities: 13 in Guadalajara, 2 in Albacete, 7 in Cuenca, 19 in Toledo and 13 in Ciudad Real.

In Guadalajara, birds migrating to the southwest were detected in both study periods. Toledo was the province that hosted the largest number of birds in both periods, although with a reduction of 5,000 birds, as not all localities were censused, so this was undercounted and should be over 20,000 birds.

The population in Albacete remained relatively stable, although fewer were counted in January, which could be because some roosted at new pools.

The population in Cuenca reduced by almost 4,000 cranes, possibly because of temporary water bodies appearing.

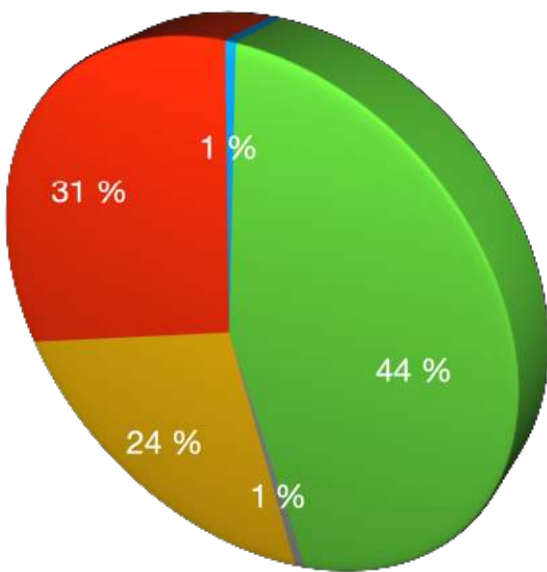
In Ciudad Real they also recorded 4,000 fewer birds in January, due to reasons already given.

CASTILE- LA- MANCHA

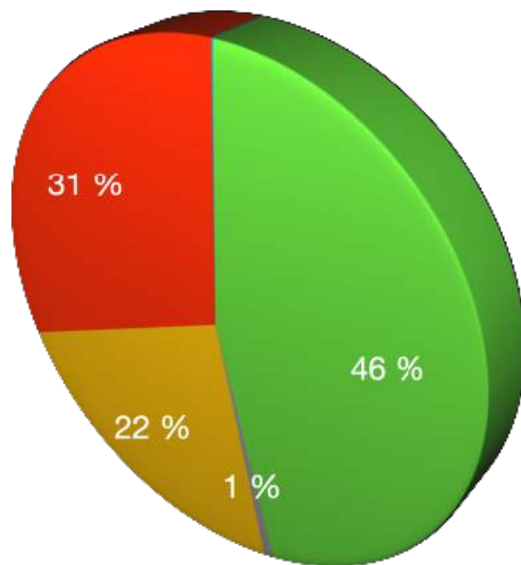
PROVINCE	DECEMBER	JANUARY
GUADALAJARA	244	30
TOLEDO	18873	13629
ALBACETE	294	210
CUENCA	10046	9353
CIUDAD REAL	13264	9353

Table nº 16: Results of the censuses by provinces in Castile-la-Mancha

CASTILE-LA-MANCHA DECEMBER



CASTILE-LA.MANCHA JANUARY



● GUADALAJARA ● TOLEDO ● ALBACETE ● CUENCA ● CIUDAD REAL

Graphic nº 22 & 23: Provincial distribution of cranes in Castile-la-Mancha in both census periods

LOCALITY	PROVINCE	MUNICIPALITY	12/15/2023	01/19/2024
Laguna Honda	Guadalajara	Campillo d Dueñas	0	0
laguna de los Majanos	Guadalajara	Setiles	0	
Laguna de Tordesilos	Guadalajara	Tordesilos	0	
Laguna Cuartizo	Guadalajara	Campillo d Dueñas	0	0
Laguna El Rubio	Guadalajara	La Yunta	0	0
Laguna Méndez	Guadalajara	La Yunta	0	0
Laguna la Pasadilla	Guadalajara	La Yunta	0	0
Laguna Llana	Guadalajara	La Yunta	0	0
Laguna El Pedruche	Guadalajara	La Yunta	0	0
Guadalajara	Guadalajara	Guadalajara	Heard	
Azuqueca de Henares	Guadalajara	Azuqueca de Henares	32	
Pastrana	Guadalajara	Pastrana	212	
La Cabrera	Guadalajara	La Cabrera		30
Laguna de la Torrecilla	Albacete	Pétrola/Corral Rubio	294	210
Llanos de Cancarix	Albacete	Hellín	1	
Embalse de Buendía	Cuenca	Buendia	103	0
Embalse de Alarcón	Cuenca	Honrubia, Hontecillas, Vald	1710	1569
Laguna de Manjavacas	Cuenca	Mota del Cuervo	4255	1690
Laguna del Hito	Cuenca	Montalbo	3821	3384
Embal de Campos del Paraíso	Cuenca	Campos del Paraísp		0
Enguádanos	Cuenca	Enguádanos	2	
Laguna de Tito	Cuenca	San Clemente	155	0
Graveras del Guadarrama	Toledo	Casarrubios del Monte	55	
Embalse Castrejón	Toledo	La Puebla de Montalbán	3027	2769
Embalse de Rosarito	Toledo	Oropesa	5715	3665
Rio Tiétar Buenaventura	Toledo	Buenaventura	ND	
Embalse de Navalcán	Toledo	Navalcán	2662	3811
Talavera de la Reina	Toledo	Talavera de la Reina	52	
Ugena	Toledo	Ugena	30	
Laguna de Peña Hueca	Toledo	Villacañas	4675	1381
Laguna del Taray	Toledo	Villacañas	40	
Ejido de Navarredonda	Toledo	Villacañas	16	
Laguna del Altillo Grande	Toledo	Villacañas	190	1100
Campo de la Mula	Toledo	Villacañas		800
El Verdugal	Toledo	Oropesa	SD	ND
Laguna del Grullo/Ayo Canaleja	Toledo	La Calzada de Oropesa	1562	ND
Área encharcada Tirez	Toledo	Tirez	25	
Laguna de Vadancho	Toledo	Quero	827	
Embalse de la Patricia	Toledo	Mejorada		68
El Romeral	Toledo	Tembleque		15
Toledo	Toledo	Toledo		20

Laguna del camino Villafranca	Ciudad Real	Alcázar de San Juan	36	15
Lagunas de Salicor	Ciudad Real	Alcázar de San Juan	1860	435
Junta de los Ríos Záncara y Ci	Ciudad Real	Alcázar de San Juan	658	425
Laguna de la Veguilla	Ciudad Real	Alcázar de San Juan	6	30
Embalse del Vicario	Ciudad Real	Ciudad Real	13	
Embalse de la Torre de Abrah	Ciudad Real	Retuerta del Bullaque	2954	654
Retuerta del Bullaque	Ciudad Real	Retuerta del Bullaque	39	
Embalse de las Povedas	Ciudad Real	Alcoba	2645	340
Tablas de Daimiel	Ciudad Real	Daimiel,Villarrubia de los O	4095	7452
Laguna de la Pasadilla	Ciudad Real	Poblete	27	
Tablas de Alarcos	Ciudad Real	Valverde	10	
Tirteafuera	Ciudad Real	Tirteafuera	0	4
Valle de Alcudia	Ciudad Real	Almodóvar del Campo	921	1118
CASTILE-LA-MANCHA			43832	30985

Table nº 17: Results of the censuses by locality in Castile-la-Mancha

EXTREMADURA

In Extremadura 105,119 cranes were censused in December and 87,932 in January, at 49 localities in Cáceres, 48 in Badajoz and 11 sectors between both provinces.

The significant decrease of 18,000 individuals registered in January was due to the storm that devastated the region in the previous days, leaving some reservoir levels too high for cranes to roost and farm ponds with sufficient water to fragment roosts and making it impossible to reach or locate all of them. In the Central Zone, where they continued to roost, the majority was going to feed in nearby dehesas, which were difficult to reach. Also, some localities in the north of Cáceres, Brozas and the southeast of Badajoz could not be counted. For all that, we estimate that the real wintering figure is higher than that recorded in December.

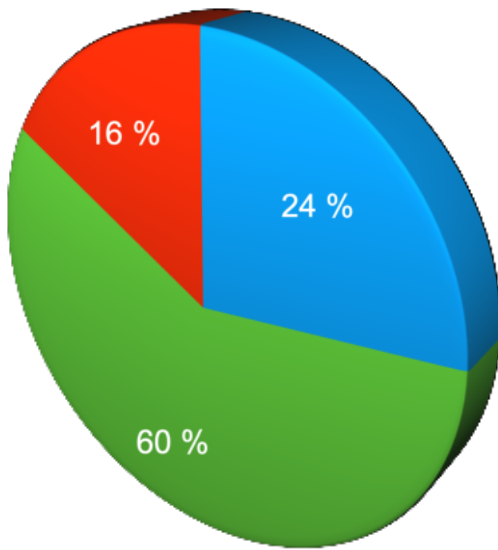
The Tajo Sector (Cáceres) had a slight decrease compared to December, influenced by the lack of cover at some localities and the dispersion of roost sites. In the Guadiana Sector, however, there was an increase of 7,000 birds even though some roosts could not be counted properly, and the Central Zone went down by 20,000 birds, due to the circumstances mentioned previously. Despite everything, it was equal to the other two sectors in January, and almost double their December counts.

EXTREMADURA

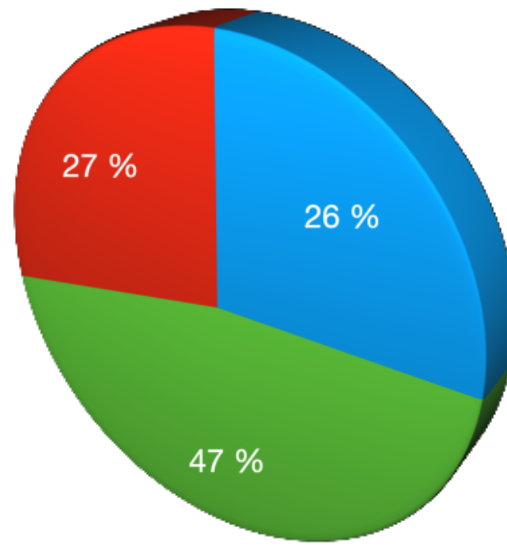
SECTOR	DECEMBER	JANUARY
S. TAJO	25036	22437
S. ZONA CENTRO	62942	41489
S. GUADIANA	17141	24009

Table nº 18: Crane distribution by sectors in Extremadura

EXTREMADURA DECEMBER



EXTREMADURA JANUARY



● S. TAJO ● S. ZONA CENTRO ● S. GUADIANA

Graphic nº 24 & 25: Crane distribution by sectors in Extremadura in both periods

LOCALITY	PROVINCE	MUNICIPALITY	12/15/2023	01/19/2024
Embalse de El Borbollón	Cáceres	Santibáñez el Alto	8200	5210
Laguna de Jaramagón	Cáceres	Calzadilla		1000
Embalse de Gabriel y Galán	Cáceres	Zarza de Granadilla	2241	1100
La Mácarra	Cáceres	Toril		150
Río Tiétar	Cáceres	Mesillas		127
La Chaparrera	Cáceres	Navalmoral de la Mata		117
Balsa del Cotillo	Cáceres	Saucedilla		574
Arroyomancos	Cáceres	Casatejada		15
Rio Tiétar-Monfragüe	Cáceres	Malpartida de Plasencia	566	413
Laguna del Palancoso	Cáceres	Navalmoral de la Mata	5300	5850
Torviscoso	Cáceres	Navalmoral de la Mata	ND	ND
Cañada del Venero	Cáceres	Talayuela	ND	ND
Charca Cerrocincho	Cáceres	Peraleda de la Mata, El Gordo	400	50
Charca del Lugar Nuevo	Cáceres	Peraleda de la Mata, El Gordo	120	12
Embalse de Valdecañas	Cáceres	Bohonal del Ibor , El Gordo	643	946
Herreruela	Cáceres	Herreruela		SD
Salorino	Cáceres	Salorino		300
Embalse de la Solana	Cáceres	Herrera de Alcántara	3	3
Charca de la Clavería	Cáceres	Membrío	401	327
Torre de Belvís	Cáceres	Brozas	2007	794

Embalse Alcántara I	Cáceres	Alcántara		5
Embalse de Mata de Alcántara	Cáceres	Mata de Alcántara		3
Charca de la Dehesa	Cáceres	Villa del Rey		80
Charca Nueva	Cáceres	Villa del Rey		250
Embalse de Molano	Cáceres	Arroyo de la Luz		4
Casar de Cáceres	Cáceres	Casar de Cáceres		5
Charca El Excedente	Cáceres	Santiago del Campo		22
Charca de Camacho	Cáceres	Talaván		25
Embalse de Talaván	Cáceres	Talaván	87	250
Balsa del Tiradero	Cáceres	Santiago del Campo	155	233
Embalse de Cuartón/Tejarejos	Cáceres	Monroy	1236	1050
La Raposera	Cáceres	Malpartida de Cáceres	6	
Embalse de Portaje	Cáceres	Torrejoncillo	6	
Las Seguras	Cáceres	Cáceres	488	620
Valdesalor/La Generala	Cáceres	Cáceres	1043	752
Embalse de Aldea del Cano	Cáceres	Aldea del Cano	628	798
Charca del Campazo	Cáceres	Aldea del Obispo	30	156
Charca y Vaguada de dh las Pue	Cáceres	Trujillo	52	84
Charca dh de doña Catalina	Cáceres	Trujillo	34	
Oeste puente Mocha	Cáceres	Trujillo	60	43
Cuerda del Jarrín	Cáceres	Trujillo		24
Rio Tozo/Labradillo	Cáceres	Torrecillas de la Tiesa	518	630
Charca del Carneril	Cáceres	Torrecillas de la Tiesa		140
Embalse Arroyo Casillas	Cáceres	Trujillo	212	275
Valle Judío	Cáceres	Zorita/Logrosán	120	2100
Embalse de Sierra Brava	Cáceres	Madrigalejo	2065	3500
Embalse del Búrdalo	Cáceres	Miajadas		81
Azud de la Canchaleja	Cáceres	Escorial		26
Embalse de Alcollarín	Cáceres	Alcollarín		20
Sector Madrigalejo/Casa Hitos	Cáceres	Madrigalejo/Navalvillar Pela	2232	1277
Sector Logrosán	Cáceres	Logrosán	5900	2404
Sector Moheda/Vegas Altas	Badajoz	Acedera/Navalvillar Pela	8843	3719
Sector Rañas-Casas d. Pedro	Badajoz	Casas de d. Pedro	1260	1005
Sector Acedera-Puercas	Badajoz	Acedera/Don Benito	1370	990
Sector Los Guadalperales	Badajoz	Don Benito/ Villanueva de la S	2587	1791
Sector Palazuelo/La Mata	BA/CC	Valdivia/Madrigalejo	8280	2831
Sector Villar de Rena	BA/CC	Villar Rena/Campo Lugar	5792	4513
Sector Valdehornillos	BA/CC	Sta. Amalia/D.Benito/Miajada	10423	8352
Sector Guadámiz/Búrdalo	Badajoz	Guareña/Sta.Amalia	2970	3051
Sector Yelbes/Medellín	Badajoz	Medellín/Sta. Amalia/Guareñ	5633	5461
Almansa, rio Guadalupejo	Badajoz	Valdecaballeros	945	1500
Recula emb Orellana	Badajoz	Talarrubias	145	1297
Río Guadalemar	Badajoz	Garbayuela	2500	2000
Embalse Gargáligas	Badajoz	Casas de Don Pedro	5100	5600
Las Bodeguillas	Badajoz	Talarrubias	167	567
Charca de los Valverde	Badajoz	Villanueva de la Serena	342	368

Dh el Cubillo	Badajoz	Puebla de Obando	140	62
Morantes	Badajoz	La Roca de la Sierra	475	133
Dehesa Nueva	Badajoz	Mérida		208
Matapegas	Badajoz	Mérida	175	150
Coto Vera	Badajoz	Mérida	122	205
Prado de Lácara	Badajoz	Mérida	0	65
Embalse de los Canchales	Badajoz	Mérida	1779	1600
Embalse de Cornalvo (Cerros V	Badajoz	Mérida	SD	16
Valdelagrana	Badajoz	La Albuera	400	91
Lagunas de la Albuera	Badajoz	Torre de Miguel Sesmero	0	424
Embalse de Villalba	Badajoz	Villalba de los Barros	162	233
Embalse de Alange	Badajoz	Alange	215	262
Las Merinillas	Badajoz	Badajoz, Valverde de Leganés	361	37
Rebellao y el Romo	Badajoz	Valverde de Leganés	180	200
Embalse de Broivales	Badajoz	Broivales	5	
Rio Guadiana (Alqueva)	Badajoz	Villarreal	998	625
Arroyo Cabriles	Badajoz	Cheles	203	144
Embalse de Cuncos	Badajoz	Villanueva del Fresno	271	327
Emb Alqueva (Friegamuñoz)	Badajoz	Cheles, Vva. Fresno, Olivenza	SD	0
Emb Alqueva (ayo Toril)	Badajoz	Villanueva del Fresno	SD	
La Guarda	Badajoz	La Guarda	88	180
Las Torralbas	Badajoz	Magacela	137	S
Badija Norte (La Palomera)	Badajoz	Campanario	546	648
Badija Este (Rio Guadalefra)	Badajoz	Quintana de la Serena	268	568
Dehesa de la Reyerta	Badajoz	Quintana de la Serena	0	
Puerto Mejoral	Badajoz	Castuera	250	800
Almorchón	Badajoz	Cabeza del Buey	8	911
Lagunas del Aguijón	Badajoz	Cabeza del Buey	460	391
Zarza Capilla	Badajoz	Zarza Capilla	775	546
Capilla	Badajoz	Capilla	173	
Monterrubio (río Zújar)	Badajoz	Monterrubio de la Serena	8	S
Cancho Roano	Badajoz	Quintana de la Serena	0	
La Caceruela	Badajoz	Peraleda del Zaucejo		86
Embalse del Rosal	Badajoz	Peraleda del Zaucejo	1967	800
Embalse de Arroyo Conejo	Badajoz	Berlanga, Higuera de Llerena	938	920
Dh de San Pedro	Badajoz	Casas de Reina	0	600
Las Navas	Badajoz	Oliva de Mérida	229	265
Llanos de Miranda	Badajoz	Oliva de Mérida	47	85
La Osa Bastiana	Badajoz	Retamal de Llerena	205	215
Matanegra	Badajoz	Usagre e Hinojosa del Valle		264
Embalse de los Molinos	Badajoz	Llera	428	0
Embalse del Moral	Badajoz	Los Santos de Maimona	0	0
EXTREMADURA			105119	87932

Table nº 19: Census results by localities in Extremadura

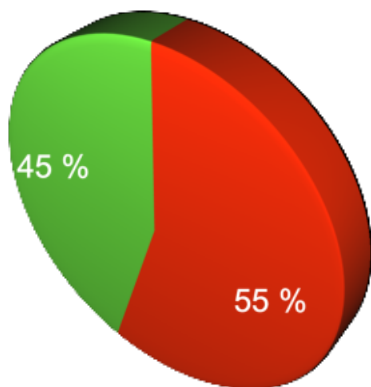
ANDALUCÍA

In Andalucía 14,062 cranes were censused in December and 12,495 in January. The decrease of almost 2,000 birds occurred in Sevilla province, more specifically in the Doñana National Park, due to the deplorable state of drought in this wetland in January. Cranes did not go there to roost but probably went to places in Cádiz and were not detected. There was a slight decrease in that province, on a par with the increase in Málaga province. There was also a slight decrease of the Doñana population in Huelva, because the Tinto's remained stable.

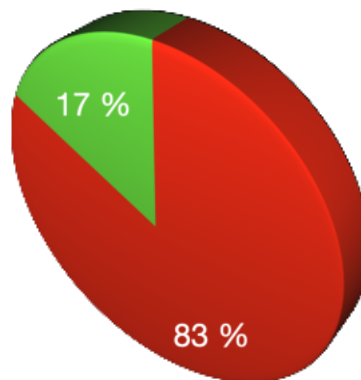
There was an increase of almost 1,500 birds in Córdoba province, although the figure should be much more, since it wasn't possible to census La Colada reservoir properly because of fog and the impossibility of doing it with several people. Equally, Navalespino reservoir produced a low count due to the birds dispersing, therefore the figure should be over 7,500 cranes.

Cranes are distributed through two sectors in this province: Los Pedroches and Guadiato, which belong to different water catchment areas (Guadiana and Guadalquivir), showing a definite movement by the population towards the former sector in January.

CÓRDOBA DECEMBER



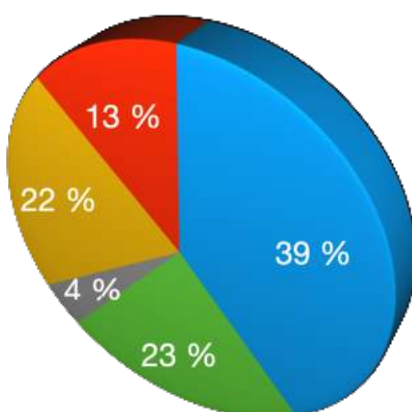
CÓRDOBA JANUARY



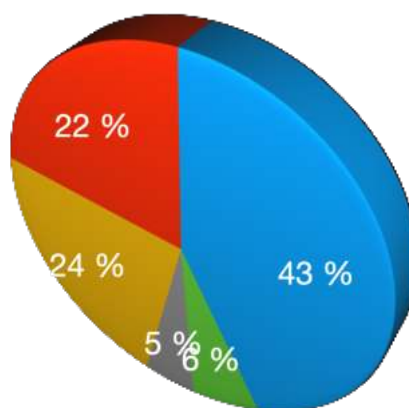
● PEDROCHES ● GUADIATO

Graphic nº 26 & 27: Crane distribution by sectors in Córdoba

ANDALUCÍA DECEMBER



ANDALUCÍA JANUARY



● CÓRDOBA ● SEVILLA ● HUELVA ● CÁDIZ ● MÁLAGA

Graphic nº 28 & 29: Provincial distribution of cranes in Andalucía

ANDALUCÍA

PROVINCE	DECEMBER	JANUARY
CÓRDOBA	5418	6774
SEVILLA	3169	635
HUELVA	598	483
CÁDIZ	3000	2367
MÁLAGA	1767	2237

Table nº 20: Provincial distribution of cranes in Andalucía

LOCALITY	PROVINCE	MUNICIPALITY	12/15/2023	01/19/2024
Embalse de Cogollarta	Córdoba		0	
Embalse de la Colada	Córdoba	El Viso	1100	2000
Fuente la Zarza	Córdoba	Hinojosa del Duque	183	106
La Pizarra	Córdoba	Belalcázar	131	393
Solana de Guadamatilla	Córdoba	Hinojosa del Duque	1100	1890
Embalse de Jardoso	Córdoba	Hinojosa del Duque	64	523
Embalse de Valhondo-Campocere	Córdoba	Hinojosa del Duque	126	364
Laguna de Peñalazorra	Córdoba	La Granjuela	260	314
Embalse de Sierra Boyera	Córdoba	Peñarroya/Pueblonu	1179	906
Embalse de Navalespino	Córdoba	Fuente Obejuna	1267	274
Posadas	Córdoba	Posadas	8	4
Dehesa de Bucaré	Sevilla	Alcalá de Guadaira	9	56
Dehesa boyal de Pilas	Sevilla	Pilas	350	
Laguna de la Lantejuela	Sevilla	La Lantejuela/Osuna	0	100
Laguna de Consuegra	Sevilla	Osuna	0	0
Laguna Calderón Grande	Sevilla	Osuna	0	0
Laguna Calderón Chica	Sevilla	Osuna	0	0
Laguna Ballestera	Sevilla	Osuna	250	0
Llano del Águila	Sevilla	Osuna	0	0
Laguna de las Turquillas	Sevilla	La Lantejuela/Osuna	0	0
P. N. Doñana	Sevilla	Aznalcázar	2560	479
P. N. Doñana	Huelva	Hinojos	291	44
Rio Odiel	Huelva	Gibraleón	0	407
Rio Tinto	Huelva	San Juan del Puerto	417	32
La Janda	Cádiz	Tarifa y Vejér de la Fr	2100	2057
Marismas de Algaida y Trebujena	Cádiz	Trebujena y Sanlucar	0	110
Salinas de Bonanza	Cádiz	SanLúcar de Barrame	900	200
Marismas de Asta/Trebujena	Cádiz	Trebujena	0	
Laguna de Fuente de Piedra	Málaga	Fuente de Piedra	1767	2237
Baza	Granada	Baza	0	
ANDALUCIA			14062	12496

Table nº 21: Census results by localities in Andalucía

CENSUS TEAMS

Navarra: Coordination: Jesús Mari Lekuona

-Dos Reinos lagoon, Arguedas rice fields, Figarol/Alera rice fields, La Rada rice fields, Las Cañas reservoir, Pitillas lagoon, La Mueda reservoir, La Zolina reservoir and migrants: Xabi Urmeneta Martín-Caler, Maika Azkona Gómez, Rajendra Ayerra Vildarraz, Moisés Zozaya Araujo, Juan Carlos Lorenzo Rodolfo, Raúl Pascual, Montse Gorriá Ansó, María Durán Lázaro

Aragón

Huesca

-Sotonera reservoir: Silvia Duque Mavilla, José María Canudo Gavín, Francisco Quesada Gaibar; Jorge Lardies Sanromán, Esther Yera Posa, Daniel Forte Jordán

-Almudévar reservoir: Francisco Quesada Gaibar, Silvia Duque Mavilla, José María Canudo Gavín, Jorge Lardies Sanromán, Esther Yera Posa, Daniel Forte Jordán, Aitor Mora Solano

-San Salvador reservoir: Carlos Perallón Romero

-Selgua rice fields: Carlos Perallón Romero

-Clamor Vieja: José Damián Moreno Rodríguez

Zaragoza

-Gallocanta lagoon: S.A.R.G.A. (Francisco Javier Sampietro Latorre, Pablo Monroy Martínez, Pilar Vicente Ballestín, Javier Vicente Ballestín, Elvira Ballestín Catín)

-Hoyo de las Cruz: Conchi Esteban Uson

-La Loteta reservoir: José Antonio Pinzolas, María Ibáñez Martín

-Plano Buena Vista: Eva Rubio López, Javier Sanz Sánchez

-Valdecenicera: Miguel Serrano Pérez, Juan Gómez de Valenzuela

-El Planerón: Miguel Serrano Pérez, Juan Gómez de Valenzuela

Venta el Esquilao reservoir: Miguel Serrano Pérez, Juan Gómez de Valenzuela, José Luis Rivas González

-El Cotaz: Lander Goñi, Javier Sanz Sánchez

-Valereña: Sergio González Martínez, Sonia Fernández Martín, José Luis Rivas González

-Elan: Francisco Quesada Gaibar, Anastasia Chichuy Vasylyvna

-Turruquiel-Arana : Héctor Bintanel Cenis, Aitor Mora Solano

-Parada de Zaida: Antonio Torrijo Pardos

-La Zaida lagoon: Antonio Torrijo Pardos

-Guialguerrero lagoon: Sabi Martínez Ordas, Gonzalo Peña Sánchez, Adrián Abad Cuéllar

-Mequinenza reservoir: Laila Aranda Romero

-Malvecino reservoir: Diego Villanua Inglada

Teruel

-El Cañizar lagoon: Felipe Rosado Romero, Martín del Castillo García, María Berna Miguel, David

-Alcañiz saline lagoons: Juan Luis Muñoz Pérez, Esther Yera Posa

-Lechago reservoir: Carlos Pérez Naval, Eva Naval Subias, Rodrigo Pérez Guijalvo

-El Becerril lagoon: César Izquierdo Tena, Isaac Parra

-El Raso lagoon: Uge Fuertes Sanz

-El Mojón lagoon: Uge Fuertes Sanz

-El Balsón (Ojos Altos): Antonio Torrijo Pardos

La Rioja

-Sotos De Alfaro: Miguel Martínez, Andrés de la Torre, Roberto Vega

-Arnedo: Michel Marín, Yolanda Hernández

Catalonia

Gerona

- Pals: Jana Marco, Oriol Palau
- Aiguamolls de l' Empordà: Jordi Sargatal, Jordi Martí-Aledo

Barcelona

- Manresa: José María Sebastián
- Rupit i Pruit: Jana Marco

Tarragona

- Cambrils: Albert Cama
- Ebro Delta: Carina Domenech, Ramón Ruíz
- Amposta: Martí González
- Calafell: Josep Bellas, Diego Salido

Community of Valencia

Castellon

- Columbretes Islands: Vicent Tamarit Garcerá
- Sant Mateu lagoon, La Jana, Lores and Iryda reservoir: Quique Luque López, Manolo Beltrán Ayza (APNAL)
- Prat de Cabanes-Torreblanca: Deborah Fandos Fernández (APNAL)
- River Mijares estuary, Nules marsh: Juan Luis Bort, José Vicente Martí, Lledo Badenes, Sergi Marza, Blanca Baranda, Josep María Martínez, Juanvi Capella, Josep Bort

Valencia

- Moros marsh: Josep Puentes
- Socarrada marsh: Jesús Carrión, Biel Miquel
- L'Albufera Natural Park: Yanina Maggiotto, Toni Alcocer, Jorge Puertas Higuera, Rubén Lázaro, Marián Ramos Moreno
- Serra de Mariola Natural Park (V) Miguel Sabio, Pep Cantó

Alicante

- Pego-Oliva marsh: Elena Berenice Acuña, Juan Villora, Jonás C. Agulló-Brotons
- El Hondo reservoir: Óscar Aldeguer, Rubén Sánchez Mayor, Pedro López Barquero, Biel Bernat

Community of Murcia

- Torrealvilla: Conrado Requena Aznar

Balearic Islands

Mallorca

- s'Albufera Natural Park: Pere García, Josep Manchado, Pere Vicens
- El Toro: Miguel Ángel Mairata

Formentera

- Pudent lagoon: Santiago Costa, Oliver Martínez, Esteban Cardona, Miquel Ramis

Menorca

- Es Grau Natural Park: Xavi Méndez

Castile-y-León

Zamora

-Villafáfila Nature Reserve: Territorial Service team of Zamora's Environmental Department, Jesús Palacios Alberti, Mariano Rodríguez Alonso, José Miguel San Román Fernández, Manuel Miñambre Fidalgo, Javier Pintado Corcero, Jesús Domínguez García, Luis Fernando San José Luengo, Eduardo Vega Rábano, Manuel Hernández Jaspe, Jesús Domínguez García

Valladolid: Coordination: Juan Antonio Medina Cuaresma

-La Zarza, Cervillejo de la Cruz and Lomoviejo: Alejandro Sanz Epifanio Ramos, Antonio Fernández Ortíz, José Ignacio Gamarra, Jesus Colás, David García López, José Gil, Rafael Herrero Viturtia

Palencia

-La Nava lagoon: Territorial Service team of Palencia's Environmental Department, Mariano Torres

-Las Porciones lagoon: Territorial Service team of Palencia's Environmental Department, David Miguelez, Blanca Berzosa (Fundación Global Nature), Mariano Torres, Roberto Carbonell Alanís

Soria

-Almazán: Fernando Chaguaceda

Ávila

-El Hoyo lagoon: Patricia Alonso, Arón Blázquez, Miguel Martín, Luis Martín, José María García Jiménez, Mari Cruz González

-Noharre: Arón Blázquez

-Garganta de Santa María: Daniel García Caro,

Salamanca

-Santa Teresa reservoir: Pedro Luis Ramos Bueno (coordinator), Alfonso Asenjo Fernández, Javier Juárez Alcalde, José Clemente Perianes, Miguel José Vicente Sánchez, Vicente G. Garrudo, María Jesús Justo Nieto, Majo Beneítez, Paloma Jiménez Martín, Vega Bermejo Castelnau

-Riolobos Weir: Asociación Sylvestris (Lucía Alonso, Jaime Tejedor, José María Azpeitia, Marina Paniagua, Gonzalo Criado Alonso), Miguel Martín Diego, Miguel Rodríguez Esteban, Carlos Zumalacárregui, Juan María Moreno, Santiago Martín

-Charca del Campo: Jaime Sánchez Mateos

-Los Alteros pool: Ramón Román Hernández

-River Yeltes plains: Roberto Carbonell Alanís

Community of Madrid

-El Pardo reservoir: Francisco José Cantos Meng, Manuel Martínez Duchel, Marcos Sánchez Escuredo, Adolfo Rodríguez

-Peñascales reservoir: Carlos Borlado

-Sureste Natural Park: Mauricio García Ramos, Carlos Talabante

-La Pedrezuela reservoir: Jorge García, Robert Wilson

-Valdetorres de Jarama: Paul Huberts

-Valmayor reservoir: José Carlos López

-Madrid: Álvaro de Andrés García

-Parla: Rafa Al

-Sevilla la Nueva Dehesa: Mara Brans

-Las Rozas: Juan Pedro Fresno

-Leganés: Paula González

-Navalvillar Dehesa: Luis Carretero

Castile-la-Mancha

Guadalajara

- Lagoons at Méndez, Llana, Pasadilla, Honda, El Rubio, Pedruche, El Mojón and El Cuartizo: Uge Fuertes Sanz
- Los Majanos lagoon: Antonio Torrijo Pardos
- Tordesilos lagoon: Antonio Torrijo Pardos
- Guadalajara: DALMA: Isabel and Fernando, Carlos Arroyo
- Azuqueca de Henares: Laura Calvo (DALMA)
- Pastrana: Cristina Pintor
- La Cabrera: Carlos Arroyo (DALMA)

Cuenca

- Alarcón reservoir: Fernando Alonso Gutiérrez, Álvaro Viadel, Joaquín Olmedo, José Antonio Lillo, Cristina Briega, Carlos a Navarro, Fátima Hernansáiz, Andrés Pinedo, Nuria Cardo Maeso, Enesto Martínez, Agustín Villodre Carrillero, Guillermo Cano, Elías Pardo, David Sánchez, Zulema Pardo
- El Hito lagoon: Fundación Global Nature: David Miguélez, Eduardo Palencia
- Manjavacas lagoon: Pedro Porrero, Noelia Escudero, Yolanda Peñalver, Mario Pulpón, Andrés Pinedo, Juan L. Parejo, Lucía Menchén, Antonio Paredes
- Tito lagoon: Andrés Pinedo, Sergio Ovidio Pinedo
- Campos de Paraíso reservoir: Fernando Alonso Gutiérrez
- Enguidanos: Antonio Paredes
- Buendía reservoir: Mauricio García Ramos, Fernando Alonso Gutiérrez, Joaquín Olmedo

Albacete

- Pétrola lagoon: Lucas de las Heras, Marcelo Quesada, José Antonio Cañizares, Antonio Guillén, Agustín González, Moises Cano, Albert Borrel, Silvia Cano, Francisco Picón, José Alberto Montiel, Julian Castaño, Andrés Pinedo, Julia Jiménez, Agustín González, Alfonso Soler, Monchi Quintanilla, Siro González (SAO)
- Cancarix plains: Francisco Picón, José Alberto Montiel

Toledo

- Cañada Venero and El Grullo: Vicente Risco, Lucía Risco Rodríguez
- Castrejón reservoir: Ángel Velasco (SEO-Toledo), José Carlos Oliveros, Pilar Villalobos, Roberto Oliveros, Óscar Frías
- El Taray lagoon: Ángel Velasco
- Altillo Grande lagoon: Cruz González, Óscar Frías, María Martínez Rodríguez, José María García Jiménez, Ángel Velasco
- La Patricia reservoir: Pedro Bustamante Bustamante
- Toledo: Gregorio Pérez Saavedra
- El Romeral: Óscar Frías
- Salicor lagoon: Juan Calonge
- Peña Hueca lagoon: Ángel Cano, Cristian Gómez, Maria del Carmen Barroso, Ángel Velasco (SEO-Toledo)
- Rosarito reservoir: Dave Langlois, Sofía Moreno, ARDEIDAS (Eugenio Garrido, Juan José Alarcia, José Manuel Fernández, Manuel Salcedo, Julio Menéndez
- Navalcán reservoir: ARDEIDAS (José Luis de la Cruz Alemán, Antonio Rodríguez, Alberto Herrero, Adrián Martín, Javier Guerrero
- Casarrubios del Monte: Unai Fuentes Gómez
- Talavera de la Reina: Marisa Hoyos (ARDEIDAS)
- Vadancho lagoon: M Carmen Comendador, Julio García, Rocío Castañeda
- Tirez lagoon: Óscar Frías
- Ejido de Navarredonda: Ángel Velasco

Ciudad Real

- Retuerta del Bullaque: Gerardo Pizarro

- Las Povedas reservoir: Ángel Gómez Manzaneque, Carlos Esteban
- Torre de Abraham reservoir: Ángel Gómez Manzaneque, Carlos Esteban
- Alcázar de San Juan lagoons: Vicky García Navarro
- Camino de Villafranca lagoon: Luis Felipe Alhambra Molina, Betsabé Alhambra Molina, Ánder Álvarez, Pablo Olivares, Pablo Álvaro García
- Salicor lagoon: Juan Calonge, Benito Montiel Moreno
- La Veguilla lagoon: Pablo J. Álvaro García, Guillermo Martínez Vergara, Ánder Álvarez, Pablo Olivares
- Junta de los Ríos: Pedro Bustamante Bustamante, Sonia López-Romero Moraleda
- Tablas de Daimiel National Park: Carlos Antonio Ruíz de la Hermosa, Claudio Ruíz Castillo, Manuel Martín Escuderos, Juan Cirilo Felipe Felipe, Alfonso Díaz Csmbronero, Ángel Arredondo Acero
- Tablas de Alarcos: Fernando Pérez de Inestrosa
- El Vicario reservoir: Manuel Ruíz
- La Pasadilla lagoon: José Gómez
- Camino de Villafranca lagoon: José María García Jiménez
- Alcudia Valley: Sociedad de Historia Natural de Ciudad Real, Cláudia Santamaría Cervantes, Francisco Hidalgo Carrión

Extremadura

Cáceres

- Palancoso lagoon: Vicente Risco
- Cerrocincho pool: Antonio Méndez Lorenzo, Ángel Luis Méndez de la Torre
- Arroyomancos: Antonio Méndez Lorenzo, Ángel Luis Mendez de la Torre
- Lugar Nuevo pool: Antonio Méndez, Javier Prieta, Álvaro García , Blas Molina
- Valdecañas reservoir: Eva Garzón Fernández, Jorge Mateos García, María González Ruíz, Violeta Arribas Álvarez, Ricardo Gómez Igual
- Gabriel y Galán reservoir: Hugo Sánchez Mateos, Raquel Silva, Mario Arcas
- Borbollón reservoir: Miguel Todón Castaño, Agustín Iglesias, Vicente Sánchez, Rodrigo Trinidad
- Jaramagón lagoon: Miguel Todón Castaño
- Gabriel y Galán reservoir: Hugo Sánchez Mateos, Raquel Lozano, Penélope Moreno
- Solana reservoir: Antonio Galán Fariñas
- La Raposera: Francis Martín
- Portaje reservoir: Juan Antonio García Jiménez
- Alcántara I reservoir, Mata de Alcántara reservoir, La Dehesa pool, Nueva pool, Molano reservoir: Carlos Figueredo
- Casar de Cáceres: Francis Martín
- El Excedente pool: Javier Prieta
- La Cañada pool: Jake Derby
- La Mácarra: Alejandro Fernández García
- River Tiétar: Antonio Méndez Lorenzo
- La Chaparrera: Pedro Bustamante Bustamante
- Talaván reservoir: José Carlos López Fuentes, Raúl Granados
- Cuartón/Tejarejos reservoir: Neil Renwick
- El Tiradero pool: Fran Rojo, Luis Osuna Mayoral
- La Clavería pool: Fernando Sánchez Machado
- La Generala pool: Francisco Javier Caballero
- Torre de Belvís: Manuela Rodríguez, Ángel Rodríguez
- Las Seguras: Cecilia Sánchez Villares, Francis Martín
- Aldea del Cano: José A. Román Álvarez, Diego Felipe Navarro Sarró, Francis Martín
- El Tozo reservoir: Jesús Porras, Manuel Moro

- River Almonte (Dehesa pools at Las Puertas and Doña Catalina, Casillas stream, Cañada Puente Mocha, Cordel del Puente de la Lavadera, Cuerda del Jarrín): Jesús Porras, Neil Renwick, Manuel Moro, Tomás Izquierdo, Jesús Izquierdo
- Casillas reservoir: Jesús Porras
- El Campazo lagoon: Neil Renwick
- Tiétar/Monfragüe: Javier Prieta, Álvaro García Martín
- Las Seguras: Cecilia Díaz Villares, Francis Martín
- La Canchaleja weir and El Búrdalo reservoir: José Luis Arroyo Molinero, Pablo Linage, Félix Arribas del Álamo
- Sierra Brava reservoir: Antonio Nieto, Inés Bállega, Seppo Hjerppe
- Judío Valley: Manuel Gómez Calzado, Manuel Gómez Guarín, Miguel Gómez Guarín
- Alcollarín reservoir: Marco Antonio Sánchez

Central Zone Sectors

- Sector Logrosán: Neil Renwick
- Sector Madrigalejo/Casa de Hitos: Martin Kelsey, Manuel Gómez Calzado, Manuel Gómez Guarín, Miguel Gómez Guarín
- Sector Las Rañas: Manuel Gómez Calzado, Manuel Gómez Guarín, Miguel Gómez Guarín
- Sector Vegas Altas (Obando): Anabel Moreno Fernández, Manuel Gómez Calzado, Manuel Gómez Guarín, Miguel Gómez Guarín
- Sector Acedera/Puercas: Manuel Gómez Calzado, Manuel Gómez Guarín, Miguel Gómez Guarín
- Sector Valdehornillos: José A. Román Álvarez, José M^a Benítez Cidoncha, Rafa Sanabria Piñeiro, Jesús Valiente López (ADENEX), Juan Alfonso López Cerrato
- Sector Miajadas/Villar de Rena: José A. Román Álvarez, Seppo Hjerppe
- Sector Guadalperales: José Ángel Sánchez González
- Sector Palazuelo: Martin Kelsey, Ángel López
- Sector Guadámex/Búrdalo: José A. Román Álvarez, Antonio María Sánchez Conde, Antonio Nieto, Inés Bállega, Fergus Crystal
- Sector Yelbes/Medellín: Fernando Yuste Ruiz

Badajoz

- Almansa: Alberto Villares, Víctor Rodríguez Pizarro, Chema Traverso Martínez
- Orellana inlet: Carmen Galán Novella, Chema Traverso Martínez
- Gargáligas reservoir: Carmen Galán Novella, Chema Traverso Martínez
- Guadalemar: Mauro Rodríguez, Carmen Galán Novella, Chema Traverso Martínez
- Los Valverde: Manuel Gómez Calzado, Manuel Gómez Guarín, Miguel Gómez Guarín
- El Cubillo dehesa: Ana Cordero, Justo Tarriño, José A. Román Álvarez
- Zangallón: Luis Venãncio, Ana Cordero, Godfried Schreur, Justo Tarriño
- Matapegas: Agapito J. Verde
- Coto Vera: Agapito J. Verde
- Prado de Lácara: Agapito J. Verde
- Morantes: José Luis Bautista Morán, Francisco Lopo
- Dehesa Nueva: J. Carreira Polo
- Los Canchales reservoir: ADENEX (Francisco Lopo, Ismael Sánchez, Lucía Vita, Francisco Castro, Antonia Cangas, Elvira del Viejo), Elena Sánchez, Beda Wirt, Luis Miguel Lara, Ibai Llosa, Isabella Wirt, José Luis Bautista Morán, Susana Burgos, Francisco Castro
- Cerros Verdes: Raúl Alcantud
- Villarreal: Jacobo Hernández Pulido, Juan Pablo Prieto Clemente, Víctor Manuel Pizarro Jiménez
- Cabriles and Friegamuñoz: Mariano Cabrero Rubio
- Las Merinillas: Nicolás Pérez, Julián Cabello Vergel

- La Albuera lagoons: José María Álvarez Leal, Julián Cabello Vergel
- Rebellao and El Romo: José María Álvarez Leal
- Valdelagrana: Juan Gregorio Miranda Alor
- Villalba de los Barros reservoir: Juan Gregorio Miranda Alor
- Alange reservoir: José A. Román Álvarez, Antonio Nieto, Inés Bállega
- La Osa: José A. Román Álvarez
- Las Navas: José A. Román Álvarez
- La Bastiana: José A. Román Álvarez, Luis Salguero Báez
- Los Molinos reservoir: José Ángel Sánchez González
- Matanegra: José Ángel Sánchez González
- El Moral reservoir: José Ángel Sánchez González
- San Pedro dehesa: María Díaz Vadillo, Luis Salguero Báez
- Capilla: Gerardo Pizarro, Andrea García Teruel
- La Serena: Badija Norte, Badija Este, Puerto Mejoral, Almorchón, Zarza Capilla, Cabeza del Buey Norte, Monterrubio, Magacela, La Guarda: ANSER: Manuel Calderón Carrasco (coordinator), Manuel Maximiano Díaz, Juan José Ruiz Moyano, Agustín Sanabria, Antonio Balsera, Manuel Pozo Centeno
- Brovales reservoir: José Antonio Delgado, Francisco Montaña
- Arroyoconejos reservoir: José Antonio Delgado, Francisco Montaña, Joaquín Vázquez, Manuel Lama, Andrés González Muñoz and Javier González (ADENEX Campiña Sur)
- El Rosal reservoir: Gustavo Gahete, Juan Diego Gahete, Amelie Gahete Leblanc
- La Caceruela: Rafa Pinilla

Andalucía

Córdoba

- La Colada reservoir: José Cañas, Juanma Sánchez Esquinas
- Cogollarta reservoir: Carmen María Ayuso
- La Pizarra: Rafael Cadenas, Juanma Sánchez Esquinas
- Jardoso reservoir: Juanma Sánchez Esquinas
- Valhondo reservoir: Juanma Sánchez Esquinas
- Fuente la Zarza: Juan Felipe Flores Moyano
- Peñalazorra lagoon: Marga Martín Pachón
- La Pizarra: Rafael Pinilla
- Solana de Guadamatilla: José María Molina, Silvia Plaza, Juan Felipe Flores Moyano
- Navalespino reservoir: Miguel Corvillo Seco
- Sierra Boyera reservoir: Antonio Leiva, Miguel Ángel Mesa López, Isabel Pérez Vigo, Pepe Guerrero, Francisco Javier Andrés Campos, Francisco Solano Bellido Luque
- Peñalazorra lagoon: Marga Martín
- Posadas: Fernando José Díez Fernández

Huelva

- River Tinto: José Manuel Méndez García, Antonio Aguilera Méndez
- River Odiel: Víctor Fiscal
- Doñana National Park: Rubén Rodríguez Olivares

Sevilla

- Lagoons at Calderón (Grande and Chica), Turquillas, Consuegra, Llano del Águila, Ballestera: Javier Rengel
- La Lantejuela: lagoon Fernando Enrique Navarrete
- Pilas dehesa: Francisco Chiclana
- Bucaré: Francisco Chiclana
- Doñana National Park: Antonio Martínez, José Luis Arroyo, Rosa Rodríguez, Giulia Bastianelli, Miguel de Felipe, Manuel Jesús Bermúdez, Antonio Francisco Anaya

Cádiz

-La Janda: Coordinators: Alejandro Onrubia Baticón (Fundación MIGRES), José Manuel López and Javier Elorriaga (Asociación Amigos de la Janda), Isabel Caminal, Mar Sánchez, Alejandro Cerezo, Pedro Barón, Eduardo Martínez, Eugenia Pérez-Caro

-Bonanza Saltpans: Concha Ávila, Manuel Barcell de Arizón, Manuel Cordero, Francisco Solera del Río

-La Algaida and Trebujena saltpans: Juan Pedro Torres, Juan Pedro Torres junior

Málaga

-Fuente de Piedra lagoon: Abel Moreno Guerra, Alejandro Ángel Maqueda, Benito Sánchez Castillo, Diego Ramírez del Pino, Francisco Palomeque Rodríguez, Fernando Rodríguez Rodríguez, Francisco Javier Rivera García, Gregorio Perán Mesa, Ian Walker, Ignacio Barrionuevo Moreno, José Escobar Sarmiento, José Antonio Cortés Guerrero, Laura María Barroso Rodríguez, Lázaro Torres González, Pablo Ramírez Durán, María Victoria Santana Moreno, Miguel Dominguez Santaella, Adrián Reina Castillo, Adrián Ruíz Álvarez, Beatriz Cuesta Merino, Gonzalo Rodríguez Urdiales, Isabel Arrabali Campos, Jaime Merino González, José Antonio Domínguez Bermúdez, Julio Carralero Benítez, Víctor Nuevo Pereda, Javier Fregenal Díaz (coordination)

Granada

-Baza: Juan Antonio Dengra



Image nº 64: Census team at La Janda (CA). Photo: Alejandro Onrubia



Image nº 65: Census team at Borbollón reservoir (CC). Photo: Miguel Todón



Image nº 66: Census team at La Janda. Photo: Alejandro Onrubia

FEEDING HABITAT USAGE

When they arrive at Gallocanta lagoon in the autumn, cranes make use of autumn-sown cereals for feeding during the days while they stay at the lagoon. Once they arrive in the wintering areas they usually use rain-fed cereal stubble, such as wheat and barley, or those of irrigated crops, such as maize and rice.

In the Central Zone of Extremadura they have used maize stubble extensively in past years, as well as those of rice. However, in recent times the areas with these crops has been drastically reduced; in 2021/22 hardly any were sown because of drought. In the current season, although many were sown, these have not usually been used by cranes, apart from rice, where, as well as seeds, they find American crayfish (*Procambarus clarkii*) and some amphibians, such as natterjack toads (*Epidalea calamita*). These have been fully exploited throughout the winter, and the cranes were only faithful to a few areas of maize, with abundant stubble.



Image nº 67: A flock of cranes in a maize stubble plot, which they used throughout the winter, near Ruecas (BA). Photo: José A. Román

They are also known to use other stubbles, such as broccoli, which they enter to feed after the harvest, probably on the plant waste or looking for invertebrates.

They also go to recently-sown plots of spring-sown cereals, which they know to go into and exploit until they are chased. This happens in wintering areas and at Gallocanta, favoured by the increasingly common practise of direct sowing, when dressed seeds are scattered over the soil, as they don't need to scratch to find them.

In addition, they regularly ingest pebbles (gastrolites) to grind the seeds.

A good proportion of birds which initially occupy stubbles later move to dehesas where they find bulbs, invertebrates and, above all, holm oak acorns, which they consume by taking the fruit after several pecks, when they have fallen to the ground.



Image nº 68: Cranes in broccoli stubble. Photo: José A. Román



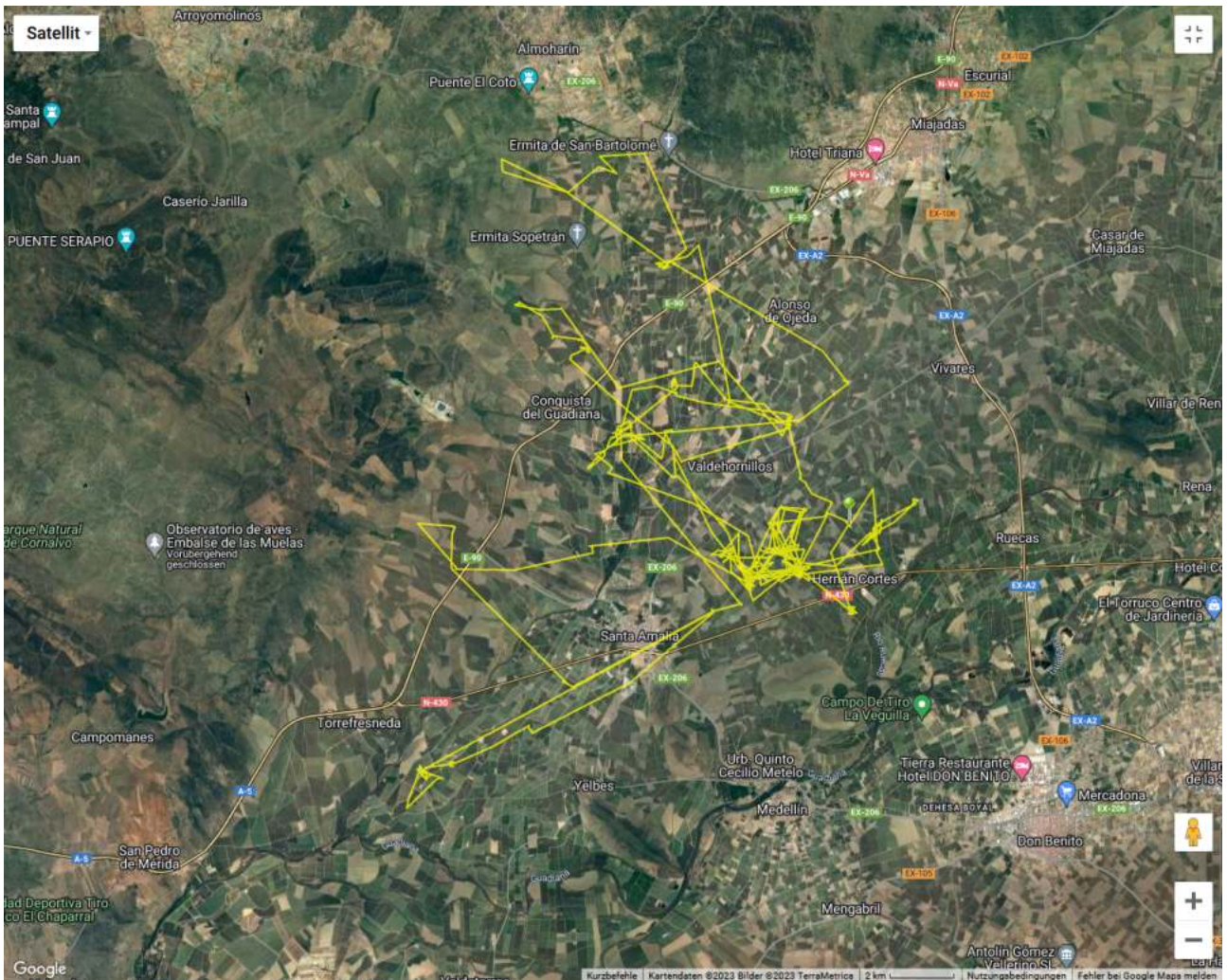
Image nº 69: Cranes ingesting gastrolites. Photo: José A. Román



Image nº 70: Cranes eating acorns in a dehesa in Extremadura. Photo: Alberto Jarana



Image nº 71: Acorns consumed by cranes. Photo: Agustín Quintana



Map nº 38: Feeding habitat use by a German crane during the winter. Initially it moved between different plots in search of food, and from the middle of December it was based in the rice fields to the north of Hernán Cortés (BA). Information by Thomas Heinicke

After the January rains, some plots were flooded and covered by spikelet grass (*Poa annua*), whose small but abundant seeds were consumed methodically in the last phase of the winter.

Additionally, they used sown cereal fields to look for earth worms and to eat some green leaves.



Image nº 72: Cranes feeding on *Poa annua*. Photo: José A. Román

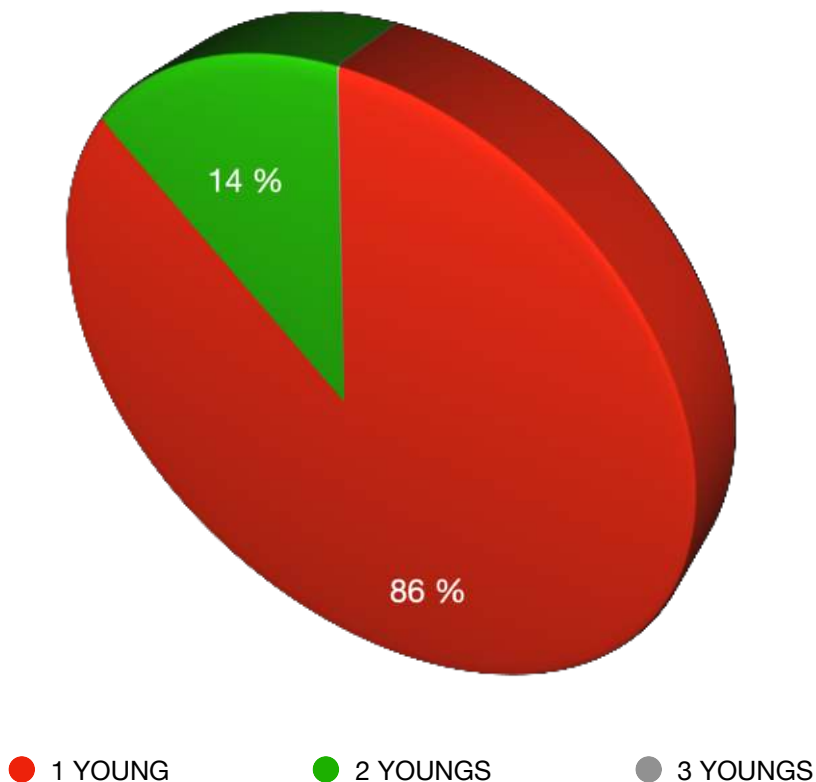


Image nº 73: Cranes in cereal seedlings. Photo: José A. Román

PRODUCTIVITY

From the arrival of the first birds, random checks were being made for juveniles in flocks and families in Navarra (Figarol/Alera, Arguedas, Pitillas lagoon), La Rioja (Leiva), Zaragoza (Ejea de los Caballeros, Gallocanta lagoon), Palencia (Boada de Campos lagoon), Valladolid (Gomeznarro) Ávila (El Hoyo lagoon), Albacete (Pétrola lagoon), Cáceres (Palazuelo, Sopetrán, Canchales Bajos, Canchales Altos), Badajoz (Los Canchales reservoir, Badén Hondo, Lomo de Libre, Quinto Segundo, La Palanca, Carrizosa de Abajo, Los Posíos, Valle de la Marchita, Valverde de Mérida gravel pit, Chinos Blancos, Ventosos, La Atalaya, Don Llorente, Las Habillas), Sevilla (Osuna), Málaga (Campillos freshwater lagoon). In total, 391 flocks were registered in these 55 localities, with a total of 25,662 individuals observed. The total of juveniles located was 2,095 (8,16%).

A total of 1,243 families (4.84%) were recorded which were accompanied by juveniles. 1,073 families (86%) were with 1 chick, 170 (14%) with 2 chicks and 1 with 3 chicks (although they may have been 2).



Graphic nº 30: Percentage of family groups in the 2023/2024 season

The people who contributed to produce this information were: Carmelo García, Esther Yera, María Berna, Antonio Torrijo, Chema García, José Antonio Campos, Javier Fregenal, Marcelo Quesada, Rajen Ayerra, Jesús Mari Lekuona, José Manuel Méndez, Francisco Javier Sampietro, Pablo Monroy, Elvira Ballestín, Pilar Vicente, Luis J. Vicente, José A. Román.

When families arrive, the chicks generally have a brownish appearance, some of them show lighter tones (pale) and others darker (chocolate), which may be related to latitude, just as some adults present an almost uniform grey colour on the tertials (false tail) amongst those that come from the most northerly areas, while these are predominantly black in those birds from more southerly areas.

Juveniles' plumage changes throughout the winter, the forehead, chin and back of the neck begin to blacken first, then the cheeks and central part of the neck begin to whiten, until the plumage is similar to the adult. The appearance of red on the crown is one of the last manifestations of the change to sub-adult plumage, but at this time they can still be distinguished from the adults because the white neck band is not a pure colour and still shows traces which differentiate them.

Evidently the most southerly pairs have chicks first and therefore their juveniles may arrive in the wintering areas with whitish cheeks, while the northern ones, which were born later, may still present a brownish aspect at the end of the winter.



Image nº 74: A pair of siblings with different aspects in December at Alonso de Ojeda (CC).
Photo : José A. Román



Image nº 75: Juvenile in January at Santa Amalia (BA). Photo: José A. Román



Image nº 76: Juvenile with whitening cheeks at Santa Amalia (BA). Photo: José A. Román



Image nº. 77 : Juvenile with almost white cheeks in January, S. Amalia (BA). Photo: J. A. R



Image nº 78: Juvenile with advanced changes in early February at Medellín (BA). Photo: José A. Román



Image nº 79: Juvenile with a red crown on 1 February at Torviscal (BA). Photo: José A. Román



Image nº 80: Family group with three juveniles, Rucas (BA). Photo: José A. Román



Image nº 81: Juvenile at Santa Amalia (BA) on 26 January. Photo: José A. Román



Image nº 82: Juveniles with a brownish aspect at Gallocanta lagoon (Z/TE) on 26 February, accompanied by adults with grey tertials. Photo: María Carmen Tornos

FIDELITY TO THE WINTERING AREA

Cranes are very territorial birds during the breeding season and do not tolerate other cranes within the limits of their plot. They remain faithful to these territories and occupy them year after year. In the wintering areas, the pairs and/or families are also very faithful to the wintering areas they use, and each year occupy the same plots, unless there are radical habitat changes.

Although they clearly don't defend these at all costs, as they do in the breeding sites, nevertheless they usually stay alone during the day, so it can be assumed they must keep other individuals at a distance.

Getting food is essential, so cranes visit different plots to search for it, moving around in large or small flocks, depending on the quantity of food available and the size of the wintering flock. Families, with or without offspring, use the same plots each year, which they know to perfection, as one of the adults will have spent its first winter with its parents in them, or ones nearby. Here the food is predictable to a certain extent, although the crop may change, so they spend the winter in small plots that they know very well.

This fact is more visible in dehesa areas, where the same families pass the season under the same holm oak tree or group of trees. There are several known examples, where birds are ringed, such as some German, Polish and Scandinavian cranes in the Central Zone of Extremadura and in the Los Pedroches dehesas, where well-known individuals, like "Josefina" have been coming to the same property for more than 24 years. It has been shown too that their children and grandchildren come to adjacent plots, so the fidelity of complete family clans to the same area is more than evident. It can be assumed that many of the wintering birds in these dehesas may be birds from the same breeding population and they migrate and winter together in well-known areas.

The habitat within the dehesas stays more or less stable, without apparent changes, with only cereal crop rotations. Nevertheless, in places where the dehesa has been removed and replaced by changing crops of different plants, such as sunflower, maize, beans or tomatoes, this fidelity continues; some individuals that are ringed and can be identified by them, or some other characteristic (melanism or leucism in some cases) allow us to corroborate this fact.

There are several Polish cranes, ringed in 2007 with coded colours, which return each year to the same plots that they came to as chicks and are now coming with their own. One of them, marked VVV/VAzV has been seen 36 times at Obando, although it has also been seen around Valdehornillos three times.

The best-known is a German crane called "Isla" (BuBuBk/WGBk) who comes punctually to her small plot of barely half a hectare near the River Búrdalo at Santa Amalia (BA), where she has been recorded 68 times, without moving from it since 2007 other than just once at a nearby property. In the current season she was noted 16 times at the same site, the last on 14 February, then was observed at Gallocanta lagoon on the 18th, so she must have set off on the 15th or 16th.

In all these years she has only been seen with a chick on two occasions, so perhaps her breeding area in Mecklenburg-Vorpommern is very densely populated or doesn't offer good conditions, either with abundant predators or other factors. The last time she came with a chick was in 2022.



Image nº 83: Polish crane GGG/GBuG at Obando (BA). Photo: José A. Román

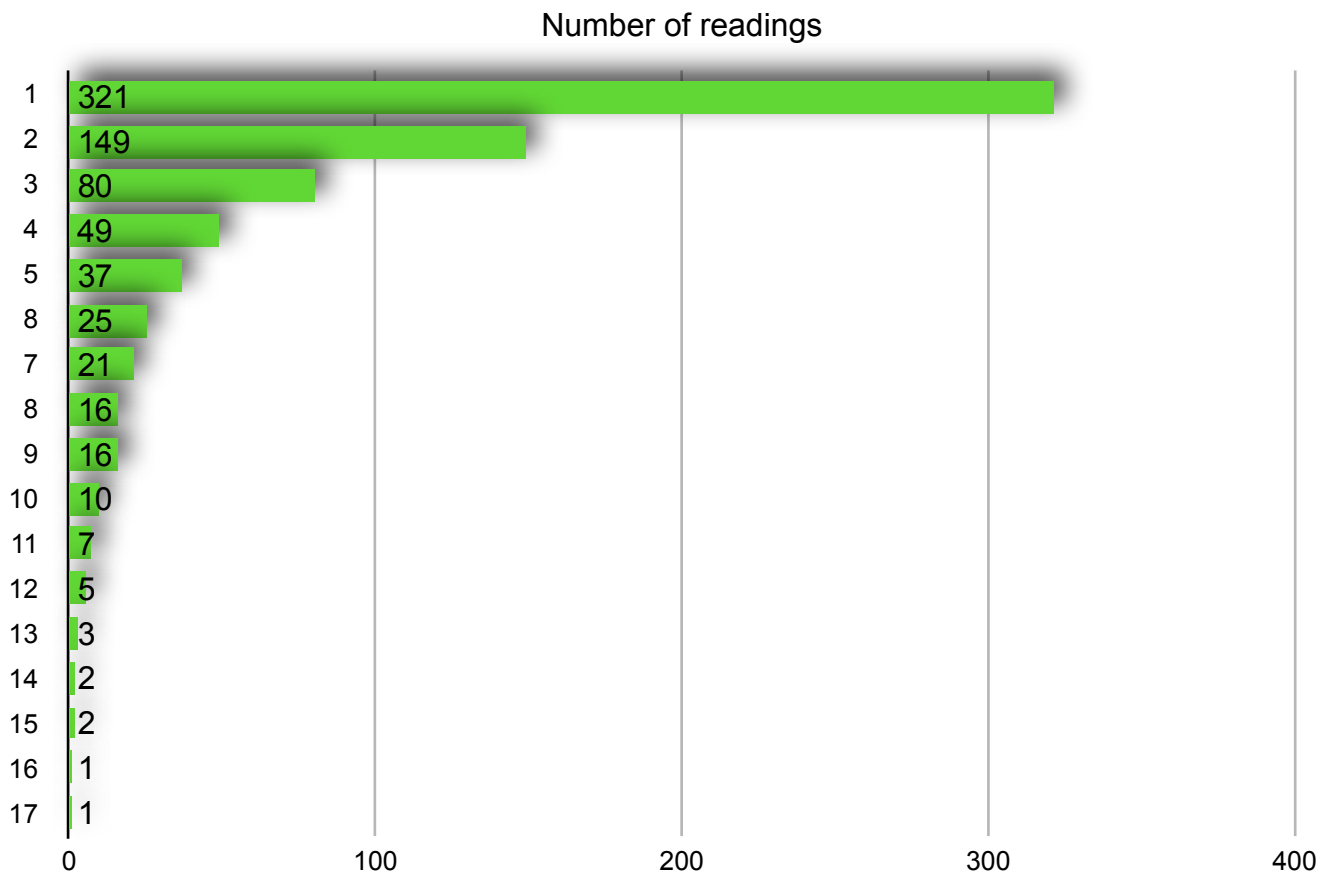


Image nº 84: "Isla" (BuBuBk/WGBk) with her partner. Photo: José A. Román

TRACKING RINGED CRANES

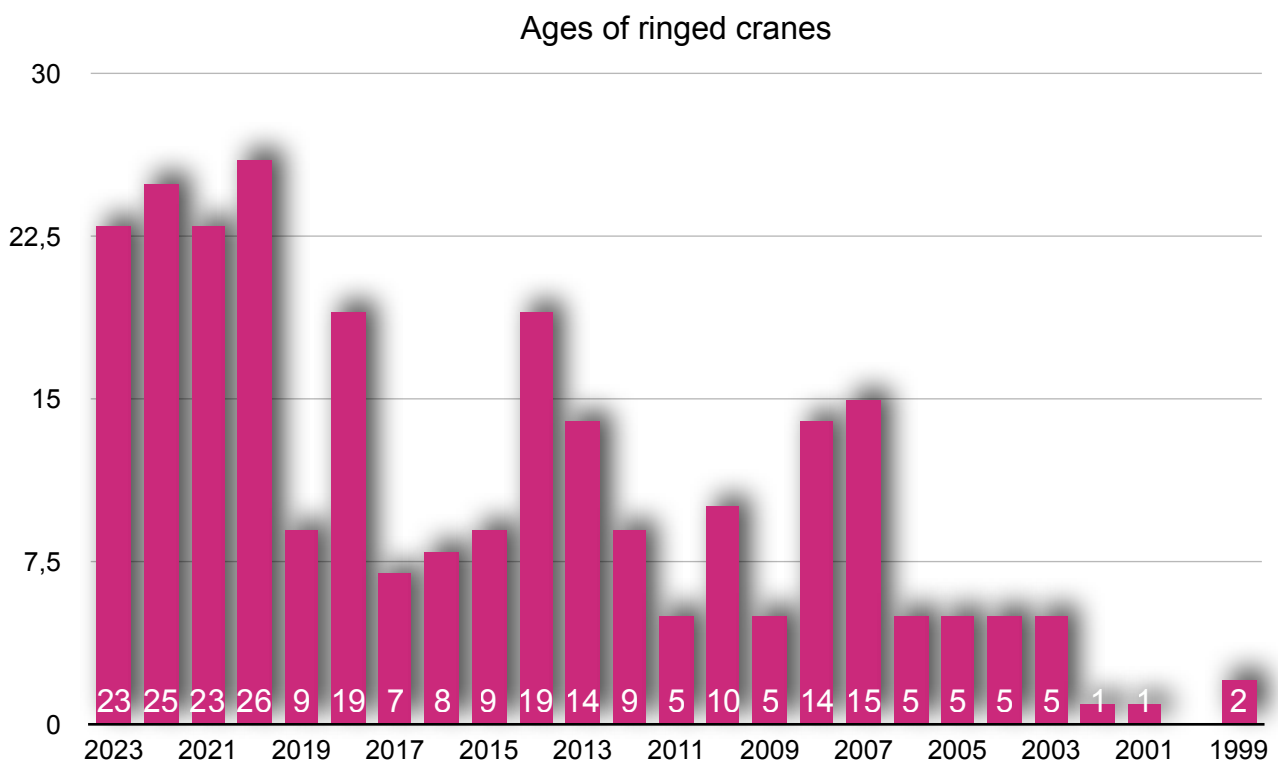
In the migration periods and during the winter, a total of 321 birds' rings were read. Of these, 290 were with colour combinations, 19 only had an alphanumeric code, all of them Polish apart from one Finnish bird. Another 12 had a yellow flag, originating from Finland. Generally, the coloured rings and flags can be read quite easily, but alphanumeric codes are read with difficulty, due to the distance away, and probably at least as many have not been deciphered as those registered.

150 of them were controlled for a second time, 80 on three occasions, 49 four times, 37 five times, 26 six times, 21 seven times, 16 eight times, 6 nine times, 10 ten times, 7 eleven times, 5 twelve times, 3 thirteen times, 2 fourteen times, 2 fifteen times (these last two were Finnish birds that stayed at Gallocanta lagoon all winter). Finally, a German crane, "Isla", was controlled 17 times, 16 in Extremadura and once at Gallocanta on her return journey.



Graphic nº 31: Number of readings and individual controls

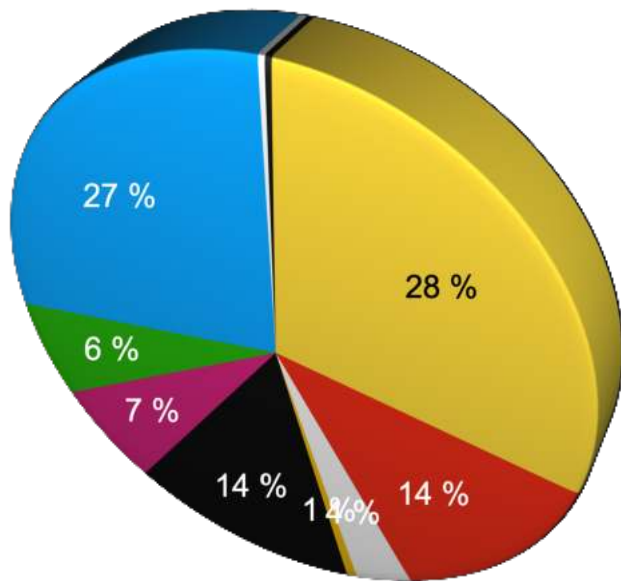
Regarding the age percentages, and taking 2023 as the calendar year of reference, those registered were 23 (7.1%) first year birds (juveniles), 25 (7.7%) second year, 23 (7.1%) third year, 26 (6.2%) fourth year, 9 (2.8%) fifth year, 19 (5.9%) sixth year, 11 (3.4%) seventh year, 22 (6.8%) eighth year, 15 (4.6%) ninth year, 19 (5.9%) tenth year, 14 (4.3%) eleventh year, 9 (2.8%) twelfth year, 5 (1.5%) thirteenth year, 10 (4.3%) fourteenth year, 5 (1.5%) fifteenth year, 14 (4.3%) sixteenth year, 15 (4.6%) seventeenth year, 5 (1.5%) each 18th, 19th, 20th, 21st years, 1 (0.3%) 22nd and 23rd year and 2 in their 25th year. These last two are the oldest birds present in the Iberian Peninsula, one Swedish, the other Finnish. Another 7 individuals were ringed as adults and therefore of indeterminate age. 28.1 % were between the first and 4th calendar year, followed by 22 cranes, followed by 22 cranes in their eighth year and 19 in their sixth and tenth years. Together, these make up 46.7% of the total.



Graphic n° 32: Ages of ringed cranes

By country, Finland led the number of readings, with 87 (27.1%) birds detected, followed by Germany with 84 (26.1%), Sweden with 44 (13.7%), Estonia with 43 (13.3%), Norway with 21 (6.5%), Poland with 20 (6.2%), Latvia with 11 (3.4%), Lithuania with 2 (0.6%), France and Spain with 1 each.

The Spanish crane, called "Coco", was born in 2022, and stayed in a wildlife hospital in Aragón after a collision until it was released at Gallocanta lagoon on 12 December 2023; it was controlled twice in the week following its release, but there have been no further reports since then.



- Finland
- Estonia
- Lethland
- Lithuania
- Sweden
- Norway
- Poland
- Germany
- France
- Spain

Graphic nº 24 : Percentage of ringed cranes by country of origin in 2023/2024



Image nº 85: YWY/BkBuW is the oldest crane in Spain in the current season. Photo: Manuel Gómez Calzado



Image nº 86: “Coco” BkRBk/RYR released at Gallocanta lagoon. Photo: Ignacio Romero



Image nº 87: German juvenile (BkBuBU/RGBr) at Villafáfila (ZA). Photo: Pepe Barrueso



Image nº 88: Finnish crane (YYR/BrWG) at Yelbes (BA). Photo: José A. Román



Image nº 89: German crane with GPS (BrBrByu/WBkG) at H. Cortés (BA). Photo: J.A.R.



Image nº 90: German crane (BuBuR/WBuW) at El Hoyo lagoon (AV). Photo: Víctor Coello



Image nº 91: Estonian crane (BkWW/WGW) at Miajadas (CC). Photo: José A. Román



Image nº 92: Finnish crane (BuYY/GRY) at Medellín (BA). Photo: José A. Román



Image nº 93: Estonian crane with GPS (WBkW/RBuW) "Lootvina", at Miajadas (CC). Photo: José A. Román



Image nº 94: German crane (BuYBu/YRBr) at Hernán Cortés (BA). Photo: Antonio Núñez



Image nº 95: Swedish crane (RWR/WBkR) at Casar de Miajadas (CC). Photo: J. A. R.



Image nº 96; Polish crane with code (T18) at Hernán Cortés (BA). Photo: José A. Román



Image nº 97: German crane "Isla" (BuBuBk/WGBk) at Yelbes (BA). Photo: José A. Román



Image nº 98: German pair (BuRBu/GRY and WBuBu/BkRBu) at Yelbes (BA). Photo: José A. Román



Image nº 99: Finnish crane with flag (KA) at Miajadas (CC). Photo: José A. Román



Image nº 100: German crane (RBuBu/BrRBr) at Yelbes (BA). Photo: José A. Román

Lectura de anillas de la grulla común (Grus grus) - Combinaciones de colores por países

ALEMANIA			
FINLANDIA			
NORUEGA		+	Amarillo en la parte superior de la tibia derecha
SUECIA		+	GPS
ISRAEL			
ESTONIA		+	GPS
POLONIA			
RUSIA			
REINO UNIDO			
GEORGIA			
LETONIA		+	GPS
TURQUÍA			
HUNGRÍA			
FRANCIA		+	Blanco en la parte superior de la tibia derecha
ESPAÑA		+	Rojo en la parte superior de la tibia derecha
LITUANIA			
REPÚBLICA CHECA			

Para saber su país de procedencia debemos fijarnos en la tibia izquierda, en el caso de Francia, España y Noruega también se utiliza para su identificación la primera anilla de la tibia derecha. Además de la combinación de color algunos países como por ejemplo Polonia, usan códigos alfanuméricos (AFN). Suecia incorpora entre sus dos anillas marrones un transmisor GPS.

BLANCO	AMARILLO	ROJO	AZUL	VERDE	NEGRO	MARRON
W	Y	R	Bu	G	Bk	Br
1	2	3	4	5	6	7

Son 7 los colores empleados.

Abreviaturas de colores.

Códigos numéricos.



www.grusxtremadura.org

Table nº 22: Colour codes currently in use.

PROBLEMS AND CONSERVATION

Wind turbines and electricity cables

Electricity cables affect the species in all wintering areas, especially on days with fog or persistent rain, when visibility is greatly reduced and thus accidents affect adults and juveniles equally. Marking with spirals or other devices, shiny or otherwise, is of no use on these days, and even with good visibility cranes can be killed after being frightened by vehicles, hunters or walkers (with increasing frequency).



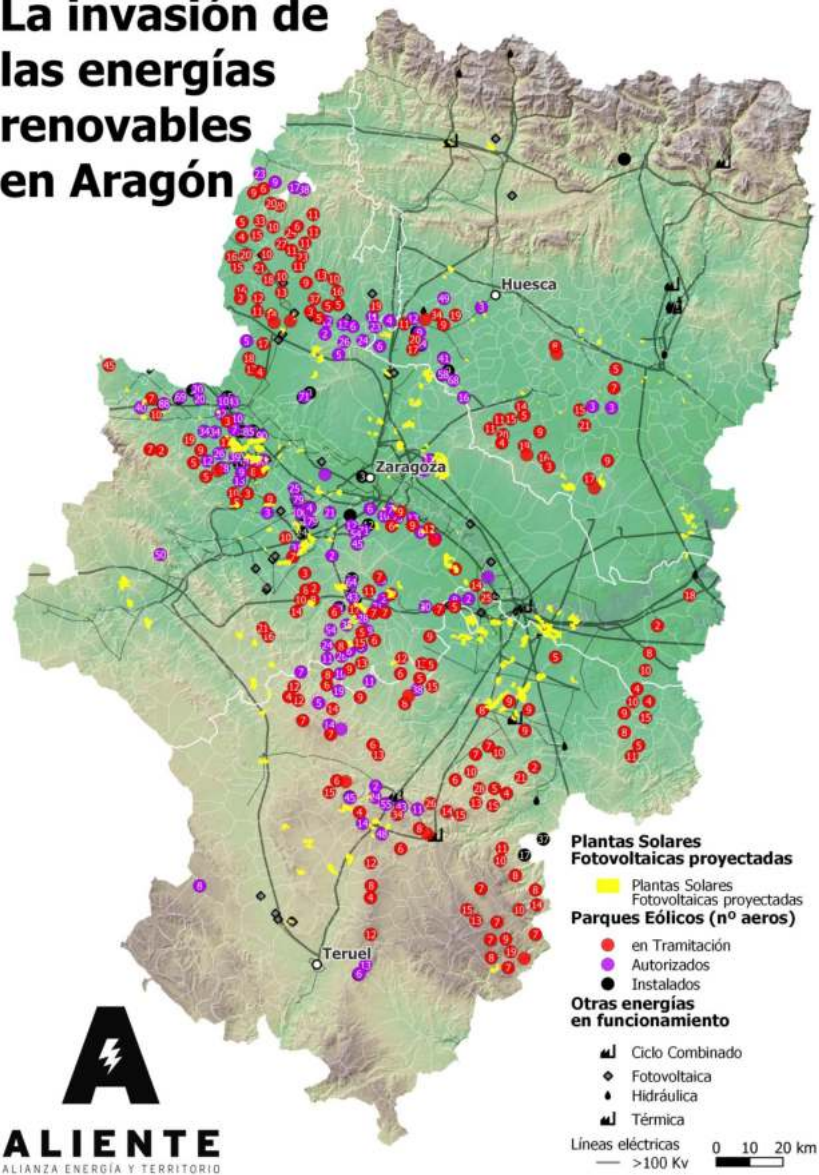
Image nº 101: Dead crane below an electricity cable at Yelbes (BA). Photo: Fernando Yuste

Electricity infrastructures, whether they are electricity cables, wind turbines or photovoltaic installations, are increasing daily in the Iberian landscapes, occupying vast areas which are frequently used by cranes as their feeding areas or moving through between feeding and resting places. This activity produces accidents, especially amongst the more inexperienced birds, such as juveniles, causing death to a good handful of individuals each year. Just in Aragón during the 2022/23 season, the Aragón government's Wildlife Recovery Centre received 29 birds, registered as killed by accidents with these types of structures, 13 with windmills, of which 12 occurred near the La Loteta reservoir at Gallur, where 4,000 cranes use the fields for feeding and the reservoir for roosting. This same centre registered 15 birds killed by collisions with electricity cables. These 29 birds are just a small sample of the reality, as the depredation level is very high and a corpse may disappear in a few hours or even minutes, if it is found by a dog. Also, these structures are not systematically monitored, so the problem is undoubtedly much greater.

In this same autonomous community, they are considering installing new wind farms in such emblematic zones in the north of Huesca, such as Sabiñánigo and Jaca, on mountains and pre-Pyrenean promontories, which may become a serious problem during

the pre-nuptial migration, when cranes are trying to reach then cross the Pyrenees with unfavourable winds, using the valleys in which there are also plans to install wind mills.

La invasión de las energías renovables en Aragón



Map nº 39: Renewable energy installed, authorized and being planned in Aragón. Source: Aliente

Wire fences

Wire fences, with or without barbs, are common on all livestock farms to prevent animals leaving the property when they are grazing outdoors without stockmen shepherding them. Generally, and regardless of the type, there is usually a double strand at the top, which is responsible for cranes becoming trapped and makes it difficult to free themselves from it. This usually happens when they try to jump over the fence with a small leap, becoming trapped by the leg between the two strands. Generally, this produces tears or even dislocations when they are found alive, or they die of exhaustion or predation by a dog or fox.

The only solution would be to mark the top part with coloured bands so they can see them clearly, and have a single strand, which avoids them getting trapped.



Image nº 102: A flock of cranes in a dehesa on either side of a wire fence; the strands that cause the accidents are indicated with arrows. Photo: José A. Román



Image nº 103: Crane trapped in a wire fence, as in the previous image, at La Roca de la Sierra (BA). Photo: José L. Vinagre



Image nº 104: Individual trapped at a pool at Santiago del Campo (CC). Photo: Fran Rojo

Avian flu

Avian influenza or avian flu is a highly pathogenic infectious disease of viral origin (H5A or H7A) that provokes a serious illness in birds, which causes death in the majority of cases. This disease affects primarily the gregarious bird species, such as seabirds, wildfowl, cranes and others. In the case of seabirds, in the north of the British Isles for several years now, thousands of Atlantic gannets (*Morus bassanus*) have died in Scottish colonies during the breeding season; these birds breed in large colonies, with birds crowded together, which favours the spread of the virus.

In the case of cranes, there have been some isolated cases in Spain in recent years, affecting one or two birds, though this doesn't mean more birds were affected. In Hungary (Hortobagy National Park) there was an outbreak of influenza during the summer among wildfowl; when cranes began to arrive at the end of summer between 10,000 and 20,000 cranes were infected and died during the period they stayed at this locality. Evidently, some infected birds travelled, and at least one bird tested positive in the north of Italy (A. Ghiggi *pers.comm.*). In Spain, although the health authorities have not officially reported, we know of positive cases in three localities: 1 at Navalcán reservoir (TO), 1 at El Hoyo lagoon (AV) and 3 at Gallocanta lagoon (Z/TE). In the first two localities only one bird was found, while at Gallocanta several dead birds were found, although only those three tested as positive. All these cases were detected in December and we know of no other cases during the winter.



Image nº 105: Dead cranes at Hortobagy National Park (HU). Photo: Béla Tokody

Agricultural changes

In the Central Zone of Extremadura, thousands of hectares which in recent years have been dedicated to cereal crops, such as rice or maize, are being transformed and replaced by woody crops, such as olives, almonds, pistachios and others. At the same time, this practise is taking place in the dehesas, where these woody crops are being grown intensively between the holm oaks.

All of this is having an impact, especially in the cranes' feeding and/or resting habitats. If this trend continues in the future, the birds will have serious problems finding food during the winter in our latitudes, which, combined with climate change, could mean that the wintering area will move further and further north. The Spanish population of cranes will gradually reduce, as this problem is not exclusive to Extremadura; it is taking place in all the autonomous communities, with and without cranes.



Image nº 106: The gradual replacement of maize-growing by new, intensive woody crops (in the background) at Almoharín (CC). Photo: José A. Román

A recent blatant case has occurred at “Las Talarrubias” farm, which is located in a ZEPA and LIC “Dehesas del Rucas, Cubilar y Moheda Alta”. (*ZEPA – Special Protection Area for Birds; LIC – place of importance in the local community*). Hundreds of hectares of grassland which the cranes used as a resting area and for feeding (many of these hectares are catalogued as being of high interest, and even high priority) have been converted into a monoculture of intensive almond trees. This shows us that the legislation is worthless when there is no political will to preserve these habitats.

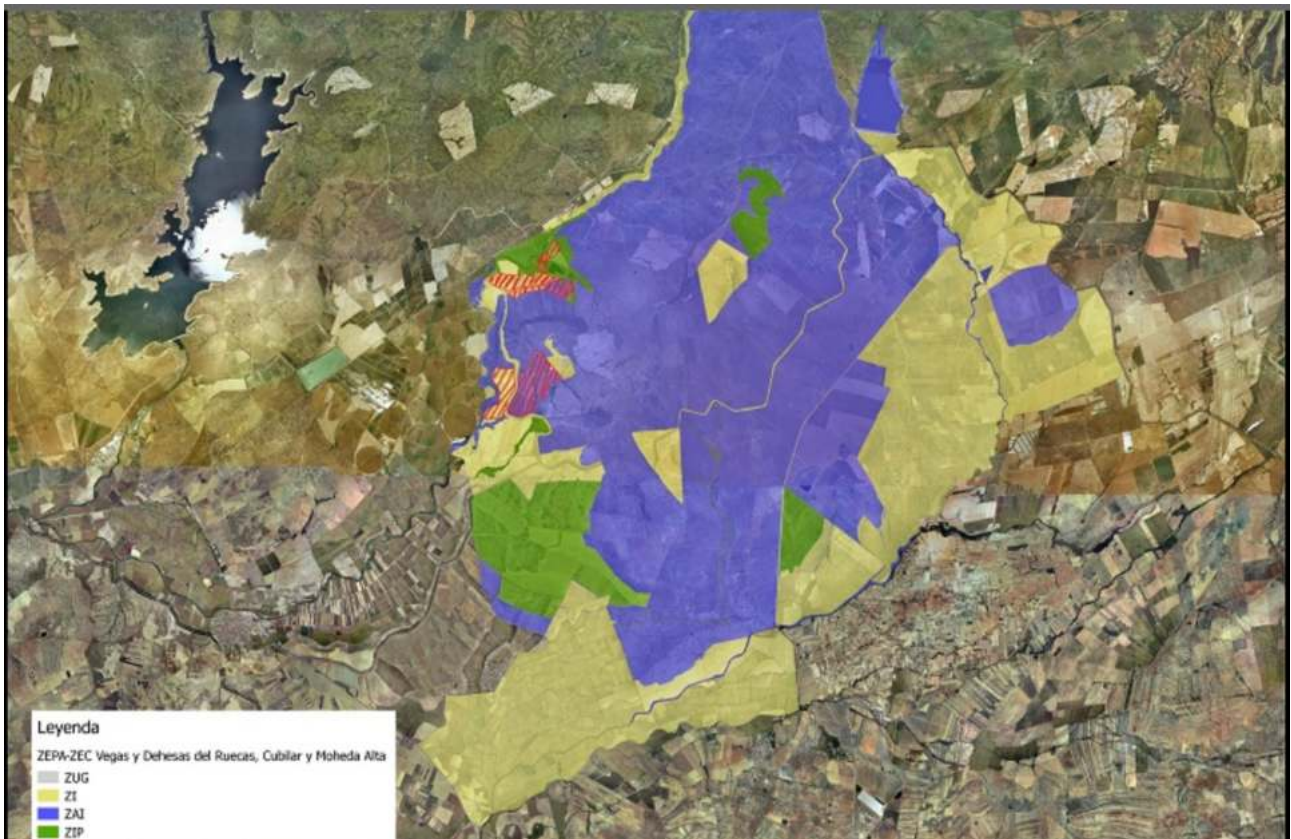


Manolo Gómez Calzado

Image nº 107: “Las Talarrubias” when cranes were using it. Photo: Manuel G. Calzado



Image nº 108: Current situation at “Las Talarrubias”. Photo: Manuel Gómez Calzado



Map n° 40: In red, the changed zone at “Las Talarrubias”. Manuel Gómez Calzado



Image n° 109: Intensive tree-planting in a dehesa at Navalvillar de Pela (BA). Photo: Manuel Gómez Calzado

Fiestas and Festivals

Every year, in different autonomous communities, fiestas or festivals are celebrated in which cranes are the principal protagonists, or even the only ones.

The longest-established is the Cranes Day which is organised by ADENEX at the “Francisco Carbajo” viewpoint at Puerto Peña, Benquerencia de la Serena (BA) and at Los Canchales reservoir (Mérida and La Garrovilla), which have been held 32 times. They also run a “goodbye” event at Puerto Mejoral in collaboration with ANSER.



Image nº 110: Adenex posters for the “welcome to” and “goodbye to” cranes events

The next oldest is the Cranes Fiesta, which the Friends of Gallocanta Association celebrated for the 26th year in February 2024. In addition to observing cranes, parallel activities are offered, such as talks, presentations, exhibitions, craft markets, games, local food, walks and the award ceremony “Grullero Mayor” (Crane Champion) which is awarded to an experienced crane enthusiast or a publisher that has included cranes in its journalistic editions.



Image nº 111: Poster and programme for the Crane Fiesta at Gallocanta

Another established event was the 15th edition of the Crane Festival, which takes place at Moheda Alta, Navavillar de Pela (BA) and is celebrated on the first Saturday of December. It is organised by the Tourism Department (of the regional government), and on this occasion was planned with Grus Extremadura. At this event there were guided walks, talks, round tables, children’s workshops organised by different NGOs, as well as a children’s drawing competition in schools in Navalvillar de Pela, where talks were also given in the days before the festival. There were stands by different nature organisations and local artisans and festival attendees were given *migas* (a traditional local dish). Another long-established event is “Moraleja Vuela”, organised by the local council at Moraleja (CC), celebrated for the 12th time in the last week of November. It also includes walks, crane-watching, talks, presentations, children’s workshops and a photographic competition.



Image nº 112: Attendees at the Crane Festival in Moheda Alta. Photo: José A. Román



Image nº 113: Talk about the crane “Josefina” in which these people spoke about their encounter with this crane in Finland during the summer. Photo: José A. Román



Image nº 114: Winners of the children’s competition at the Cranes Festival. Photo: Juan A. López



Image nº 115: Round table on wintering birds in Extremadura. Photo: José A. Sánchez



Image nº 116: Children's workshop run by Grus Extremadura. Photo: Juan A. López



Image nº 117: Posters for the *Festival de las Grullas* and *Moraleja Vuela*

In Castile-y-León, the Candeleda Festival (AV) was held, celebrating the 7th edition at the end of January, where they also had workshops for children, talks were given and there was an excursion, a bird-ringing workshop and different associations had stands.

In Castile-la-Mancha, another established event is the Alcudia Valley Crane Festival, which takes places at the end of January at Almodóvar del Campo and La Bienvenida (CR), this being the 5th edition. Organised by the Sociedad de Historia Natural de Ciudad Real, talks and presentations are given and they watch cranes going to roost. Another, which was launched in this autonomous community this year, was the 1st Corral-Rubio (AB) Birds Festival, organised by the Sociedad Albaceteña de Ornitología and the Corral-Rubio council, centred on the presence of cranes at this locality, the only one in Albacete, where there were talks and an outing to enjoy these birds.

In Aragón, they celebrated the 5th edition of the Pyrenees Crane Fiesta at Artieda (Z) at the start of March with talks, ringing and watching birds going to their roost.

Finally, the International Ornithological Tourism Fair (FIO) this year chose the crane as the poster bird for the Fair, which took place on the last weekend of February.

At the neighbouring Portuguese locality of Ouguela, the 6th Crane Festival was celebrated, divided into two parts – one in December to coincide with the first Iberian crane census, the second part in February, with talks, shared meals and watching cranes and other birds, as well as educational activities and putting up nest boxes.

VIII Festival de la Grulla

26/27/28 DE ENERO 2024
Candeleda
EN EL AULA DE LA NATURALEZA, LA LAGUNILLA

VIERNES 26
16:30-20:00 **Excursión guiada para observar las grullas**
5€ - inscripción 675 56 64 14 (por whatsapp)
Horario sujeto a cambios

SÁBADO 27
11:00-11:30 **Inauguración**
11:30-13:00 **Conociendo a la Grulla de patas a pico**
Juan Fernández-Elipe - ACE
11:30-13:00 **Talleres infantiles "conociendo la grulla"**
Guardería educativa
13:00-14:00 **Mural colaborativo**
por la muralista Reyes Jerez
16:30-20:00 **Excursión guiada para observar las grullas**
5€ - inscripción 675 56 64 14 (whatsapp)
Horario sujeto a cambios

DOMINGO 28
10:00-12:00 **Anillamiento científico de aves**
Gratuito, inscripción
696 97 83 00 (por whatsapp)
10:30-14:00 **Stand de información**
SEO Birdlife Ávila, Adisvatil...
10:30-13:00 **Talleres para toda la familia**
SEO Birdlife, Natúrea, Track Grez
11:00-14:00 **Mural colaborativo**
por la muralista Reyes Jerez
12:30-13:30 **Cuentacuentos musical "Pedro y el Lobo"**
Selma Candel

INFORMACIÓN GENERAL/GRUPO PARA COMPARTIR VIAJE : 681 955 689

ORGANIZAN Ayuntamiento de Candeleda, Ayuntamiento de Gredos
COLABORAN Red de Humedales de Castilla-La Mancha, Asociación Ornitológica de Castilla-La Mancha, etc.

V FESTIVAL DE LAS GRULLAS

VALLE DE ALCUDIA

20 y 21 DE ENERO DE 2024
LA BIENVENIDA, ALMODÓVAR DEL CAMPO



Patrocinan: Castiella-La Mancha, Ecoenergia, etc.
Organiza: Descubre Alarcón
Colaboran: M. VALLE, AM, Festival de las grullas Valle de Alcudia

Image nº 118: Posters for the festivals at Candeleda and Alcudia Valley

I FESTIVAL DE LAS AVES

CORRAL-RUBIO (Albacete)

Humedales de Corral-Rubio

3-4 FEBRERO 2024

ORGANIZA
Ayuntamiento de Corral-Rubio



COLABORAN
ANSE, ANIBRE, dendros, BIA, BJA, BJB, BJC, BJD, BJE, BJB, BJC, BJD, BJE, BJB, BJC, BJD, BJE

2 Y 3 MARZO 2024

V FIESTA DE LAS GRULLAS DEL PIRINEO

DESPEDIDA DE LAS GRULLAS EN ARTIEDA



SÁBADO 2 DE MARZO

11:00 **Café de bienvenida** - Sala Multusos
11:30 Charla **La biología de las grullas** con Caminando Amonico.
12:15 Charla **La migración de las grullas** con Cristina Ruiz Arcas.
13:30 **Vermó Grullero**
14:30 Comida popular
Reservas antes del 27/02 en artiedaturismo@gmail.com
16:30 **Demostración de vuelos de aves rapaces** En el Camping de Artieda.
18:00 **Observación de Grullas** en el dormitorio. Salida desde el parking.

CELEBRAMOS SU PASO POR NUESTRAS MONTAÑAS

DOMINGO 3 DE MARZO

LA JORNADA CONTIENE EN EL MOLINO
10:00 **Anillamiento científico** con el Grupo Ornitológico Oscense.
11:00 **Almuerzo Grullero**
12:00 **El juego de la Grulla** Actividad familiar de Educación ambiental.

INFO Y RESERVAS: 655719792
ARTIEDATURISMO@GMAIL.COM

COLABORAN: Ayuntamiento de Artieda, etc.

Image nº 119: Posters for the festivals at Corral-Rubio and the Pyrenees



Image nº 120: *Festival del Pirineo*, at Artieda (Z). Photo: Javier López



Image nº 121: Posters for the *Festival dos Grous* and FIO

PRE-BREEDING MIGRATION

Spring migration began in the first days of February, although the first flock crossing the Pyrenees was detected on 31 January. The arrival of an Atlantic front with strong westerly winds facilitated departures from 10 February.

-31/01/24: 50 over Riglos (HU) Ernesto.

-02/02/24: 22 over El Pardo hills (M) José A. Metesanz.

-03/02/24: 35 over Puebla de Beleña (GU) and another 8 at night, Javi Calvo (DALMA).

-04/02/24: 35 over Villanueva de Odón (M) Mark Davis; 124 over Aldea del Fresno (M) Miguel Folgado; 48 over Almenar de Soria (SO) Fernando Chaguaceda; 31 over Alduide hills (NA) Rajen Ayerra.



Image nº 122: Migrants over Alduide hills (NA). Photo: Rajen Ayerra

-05/02/24: 20 over Sureste Natural Park (M) Kato Sánchez; 63 over Valdemorillo (M) Mariajo Caballero; 173 over Zaorejas (GU) María José Valencia.

-06/02/24: 130 over Puebla de Beleña (GU) Juanjo Calvo (DALMA); 3 over Jaca (HU) Julián Muñoz; 110 over Riola (Z) Esther Charles; 250 over Cervera (LR) Ignacio González; 100 over Jarandilla de la Vera (CC) Sofía Moreno; 848 roost at El Hoyo lagoon (AV) Chema García; 38 over Sangüesa (NA) Jon Sola; 23 over Cubillo lagoon (SO) Sergio Pérez; 200 at Sástago saline lagoons (Z) Daniel Falomir; 23 over Fitero (NA) Gorka Gorospe; 74 over Sotos de Alfaro (LR); 266 at Lechago reservoir (TE) Antonio Torrijo.

-07/02/24: 5 over Madrid, Daniel Gonzalo; 3 over Villanueva de Alcolea (CS) Pascual Monferrer; 28 over Mezalocha reservoir (Z) Thomas Rickfelder.

-08/02/24: 7,486 roost at Gallocanta lagoon (Z/TE) S.A.R.G.A.

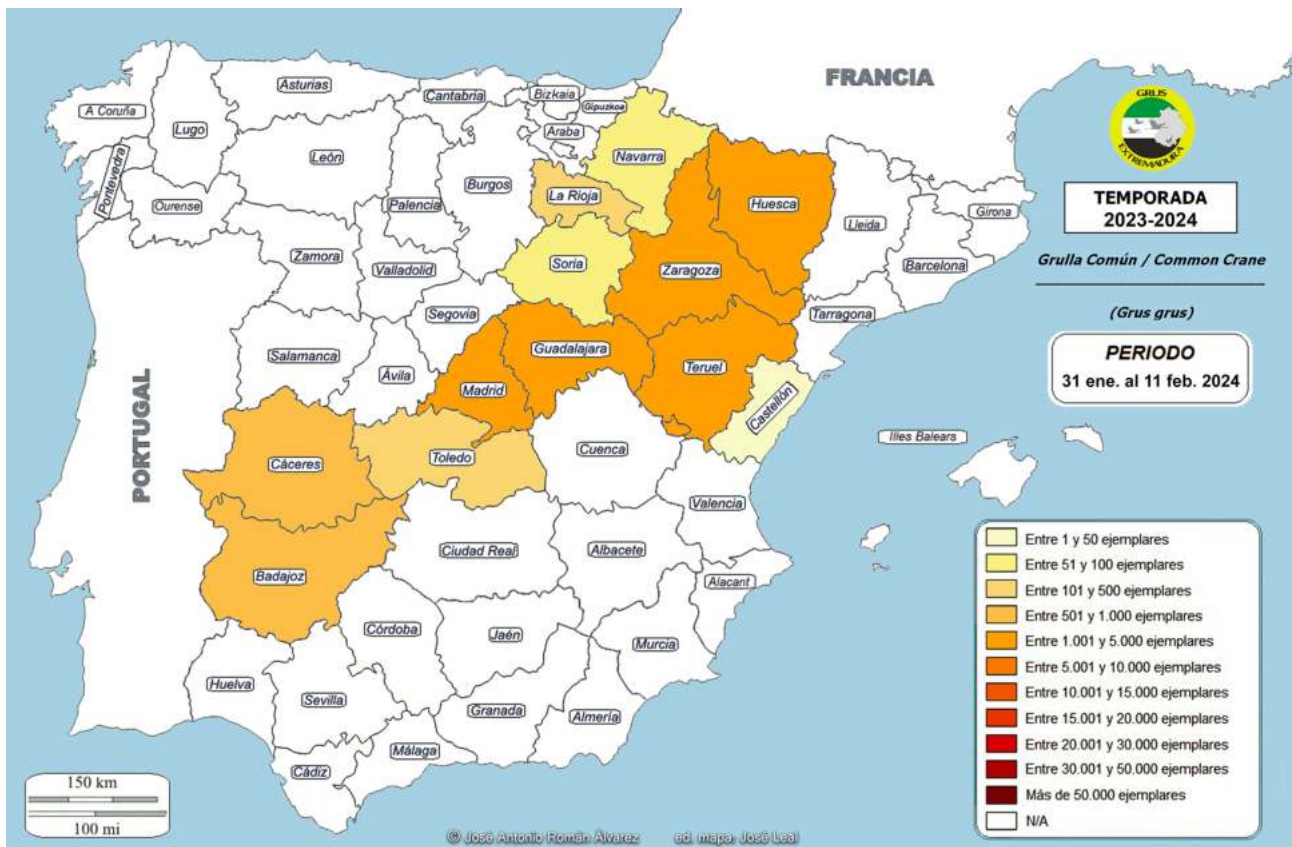
-09/02/24: 325 roost at El Pardo reservoir (M) Francisco J. Cantos, Adolfo Rodríguez (GOEP)

-10/02/24: 100+150 over El Pardo (M) Marco Escuredo, Manuel Duchel (GOEP); 120 over Madrid, José Ochagavia; 160 over the Botanical Gardens (M) Javier Martín (GOEP); 250+330+100+600 over Guadalajara, Carlos Arroyo, Sergio (DALMA); 120+300 over Cabanillas del Campo (GU) Cristina Ruíz, José L. Arias (DALMA); 60 over Guadalajara, José L. Arias (DALMA); 43 over Titulcia (M) Chemi Ibáñez; 90+30 over Madrid, José M^a Paraíso, Óscar Pérez; 50 over Casa de Campo (M) Miguel Hernández; 60 over Meco (M) Lorenzo Rodríguez; 15 over Sureste Natural Park (M) Paco Torralba, Jaime González; 1,800 arrive at Gallocanta lagoon (TE) Antonio Torrijo; 11 over Sotos de Alfaro (LR) Eduardo Sevilla; 370 feeding in dehesas at Peraleda del Zaucejo (BA) Gus Gahete.

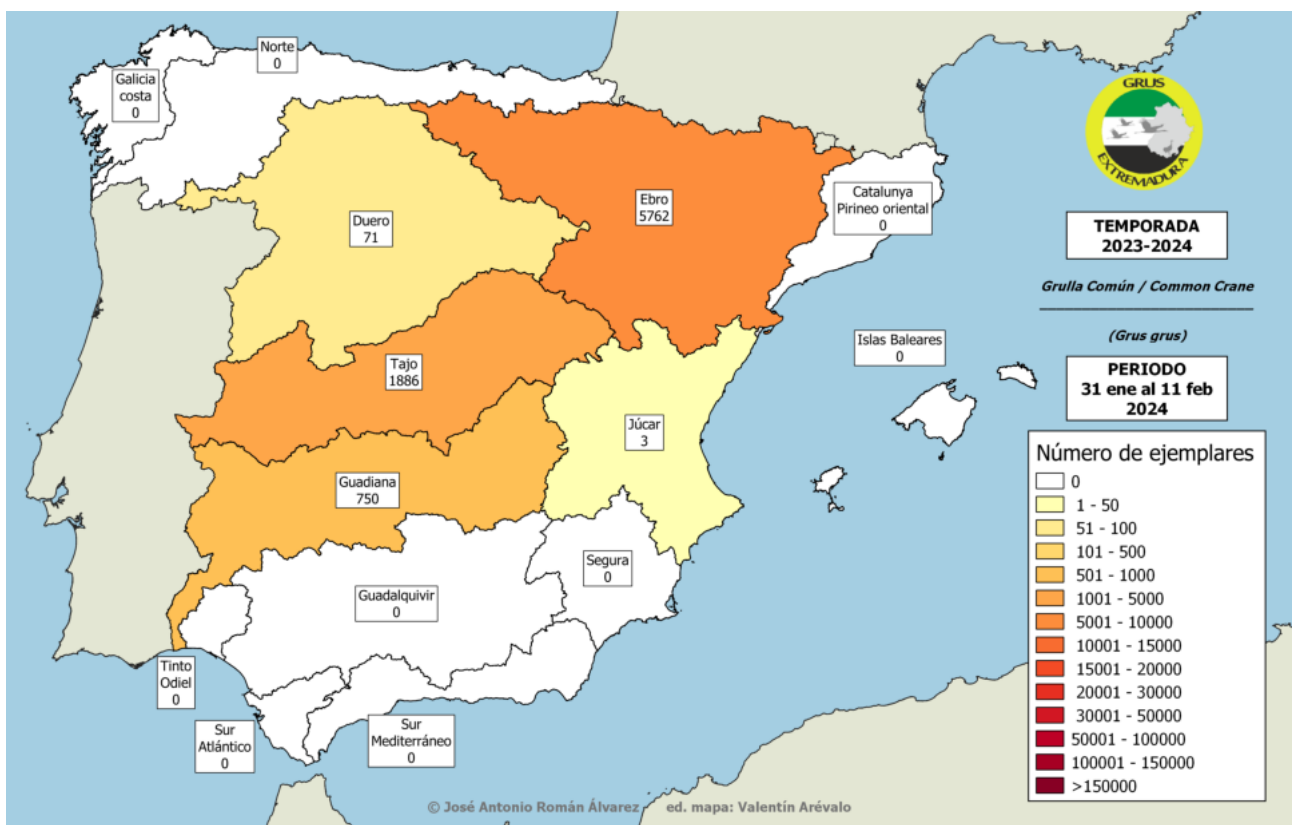


Image nº 123: Cranes in dehesa at Peraleda del Zaucejo (BA). Photo: Gus Gahete

-11/02/24: 75 over Huesca, Fernando Valle; 70 over Montearagón castle (HU) Francisco Quesada; one flock crossing the Sierra de Guara (HU) over the Salto de Roldán, Juan A^a Gil; 110 set off from Sotonera reservoir (HU) at 10:00h, Pablo Vallés; 116 over Movera (Z) José M. Sánchez; 2,000 set off from Gallocanta lagoon (Z/TE) at 11:00h, Antonio Torrijo; 200 over Puebla de Alfindén (Z) towards the Pyrenees, Juan R. Mora; 214 cross the Pyrenees from Torla (HU) through the Ordesa valley, Francisco J. Sampietro; 100 arrive at Gallocanta lagoon (TE/Z) at 16:00h, Antonio Torrijo; 247 over Loreto reservoir (HU) Eduardo Gracia; 137 over Abay (HU) Daniel Barceló; 60 over Tella (HU) Ignacio Méndez; 205 over Madrid, Javier Morgado; 90 over Zaragoza, Alfredo Sánchez.



Map nº 41: Migration by provinces between January 31 to February 11



Map nº 42: Migration bay catchment areas between January 31 to February 11

At the start of the week the wintering areas remained calm and several thousand crossed the Pyrenees from Huesca. Active migration began on the Friday in areas in the southwest, becoming intense and widespread in the following days.

-12/02/24: 70 over Salas de los Infantes (BU) Rufino Fernández; 30 over Loarre castle (HU) Ignacio Romero; 70 over Huesca, Arturo Bobed; 11 over Colindres (CT) Alejandro García.

-13/02/24: 2,830 set off from Sotonera reservoir (HU) Esther Yera, Kees Woutersen, these cranes going through the Hecho and Ansó valleys (HU) Javier Enegay; at 11:00h 850 set off from Gallocanta lagoon (Z/TE) Antonio Torrijo, María Berna; 300 from Lechago reservoir (TE) Antonio Torrijo; 120 over Utebo (Z) Ignacio Romero; 40 over Cuarte de Huerva (Z) Pedro López; 74 over Yebes (GU) Alfredo; 9 at Sotos de Alfaro (LR) Jesús Ucha; 50 over Pioz (GU) Manuel Martínez; 120 over Anento (Z) A. Galache; 1,250 over Villanueva de Huerva (Z) Samuel Aunió; 11 over the Sierra de Guara (HU) Juan C. Alberó; 160 over Etxalar (NA) Xabier Etxarri; 700 over Alcolea de Tajo (TO) José A. Calvo; 80 over Burlada (NA); 200 over Villarejo de Salvanes (M) Francisco Garnacho; 20 over El Pardo hills (M) Daniel Díaz; 2 over Ajo Cape (CT) Jesús Menéndez; 80 roost at Santa Teresa reservoir (SA) Vicente G. Garrudo; 882 roost at El Hoyo lagoon (AV) Chema García; 35 from Morocco over Tarifa (CA) Sally Westwood.

-14/02/24: 135 over Pamplona (NA) Gonzalo Deán; 1,095 set off from Sotonera reservoir (HU) Kees Woutersen; 1,270 set off from Gallocanta lagoon (Z/TE) Antonio Torrijo; 81 circling at Sodeto (HU) Silvia Duque; 3 over Toledo, Marcos Ansón; 43 over Olmedo (VA) Rocío RO; 38 over Aldeamayor de San Martín (VA) José I. Gamarra; 30+80 over Pedrajas de San Esteban (VA) Juan A. Medina; 11 at Sotos de Alfaro (LR) Borja Sanz; 4,059 between Santa Amalia and Rucas (BA) José A. Román.



Image nº 124: The German crane “Isla” was still in her wintering area on 13/02. Photo: José A. Román

-15/02/24: 45 set off from Sotonera reservoir (HU) Kees Woutersen; 3 over Pilar de la Hondonada (A) Walter Ras; 20 over El Pardo hills (M) Daniel Díaz; 6,244 roost at Gallocanta lagoon (TE/Z) S.A.R.G.A.

-16/02/24: 10,000 migrating over the Central Zone of Extremadura (BA) Manuel Gómez; 221 over Guadalajara, José M^a Gómez (DALMA); 15 over La Aldea del Obispo (CC) Neil Renwick; 1,230 over Leganés (M) Alfredo Mirat; 1,514 over Retuerta del Bullaque (CR) Gerardo García; 300 over Pedrajas de San Esteban (VA) Rocío GO; 89 over Coca (SG) Juan M. Pérez; flock over Pinto (M) David Pascual; 950 over Rivas Vaciamadrid (M) Óscar Frías; 317 over El Retiro (M) Javier Marquerie; 1,000 over Chamartín (M) Christophe Pontegnie; 40 over Casa de Campo (M) Miguel Hernández ; 200 over Ataquines (VA) Juan A. Medina; 350 over the River Adaja in Arévalo (AV) Víctor González; 400 over Rivas Vaciamadrid (M) Iván Peragón; 500 over Mejorada del Campo (M) Miguel Martín; 205 over Madrid, Miguel Martín; 50 over Carabanchel (M) Daniel Heredia; 80 over Villaviciosa de Odón (M) José L. Machuca; 8 over Sotos de Alfaro (LR) Alberto; 50 over Salicor lagoon (CR) where 300 are resting, Juan Calonge; 63 over Villanueva del Pardillo (M) Mariajo Caballero; 265 over Tres Cantos (M) Manuel García; 275 over Casa de Campo (M) Manuel García; 800 over Villa del Olivar (M) Octavio Infante; 50 over Villarrubia (CU) Virgilio Beltrán; 100 over Ugena (TO) Rubén Blázquez; 325 over Sureste natural park (M) Edmund Bell; 1,600 over Fuentelareina (M) John L. Muddeman; 180 over Villar Del Olmo (M) Juan C. del Moral; 150 over Ugena (TO) Cristina Cabañas; 640 over Rábano (VA) Rafael Díez, Ana Martín, César Díez; 800 arrive at Gallocanta lagoon (TE/Z) Antonio Torrijo.



Image nº 125: Migrating flocks over Retuerta del Bullaque (CR). Photo: Gerardo García

-17/02/24: 1,100 roosted at Peña Hueca lagoon, Villacañas (TO) from where they set off on migration, Ángel Velasco; 352 at dawn at Guarrera lagoon, Tardajos de Duero (SO) from where they also set off on migration, Juan L. Hernández; 500 over Aldefuente (SO) Juan L. Hernández; 550 over Santa Marta de Magasca (CC) Martin Kelsey; 5,800+

migrating over Hernán Cortés (BA) Gus Gahete; 10,000+ over Vegas Altas (BA) Manuel Gómez; 3,000 over Buendía reservoir (GU/CU) Ángel Vela; 300 over La Aldea del Obispo (CC) Neil Renwick; 65 over Leganés (M) Alfredo Mirat; 160 over Ugena (TO) Jesús Torres; 250 over Griñón (M) M^a Victoria Cabañas; several thousand going up over the River Tajo from Buendía reservoir (CU/GU) Ángel Vela; 286 set off from Sotonera reservoir (HU) Kees Woutersen, Esther Yera; cranes arrive at this reservoir, although some continue the journey without stopping, Irene Marina; 1,200+ over Cabanillas del Campo (GU) Mario López (DALMA); 45+300 over Guadalajara, Jesús Serrano, Javi Calvo (DALMA); 300 over Pozuelo de Alarcón (M); 500 over Guadalajara, Jesús Serrano; 70 over Casa de Campo (M) Ángel Victoria (GOEP); 50 over the Sierra de Francia, Miranda del Castañar (SA) Cristina Giner; 200 over Balconete (GU) Mario López (DALMA); 300 over Chiloeches (GU) Fernando Gómez (DALMA); 42 over Torrejón del Rey (GU) Laura Calvo (DALMA); 532 over Chiloeches (GU) José Mari; 300 over Cabanillas del Campo (GU) Cristina Ruíz; 400 at La Janda lagoon (CA) Fernando Portillo; 140 over Palacios de la Sierra (BU) Juan I. Martínez; 400 over Los Santos (SA) Vega Bermejo; 28 over Taverzet (B) Pere Baucells; 18 over Sant Martí d' Albars (B) Jordi Clavell; 580 over the River Magasca, Trujillo (CC) Carmen PA; 36 over Santiago del Campo (CC) Raúl Granados, Fátima Romero; 500 over Oliva de Plasencia (CC) Vicente Torres; 96 over Fontanarejo (CR) Manuel Flores; 28 over Fuente del Fresno (CR) Alba Becerra, Mario Fernández; 4,000 over Almonacid de Toledo (TO); 124 over the River Guadarrama (TO); 120 over Ciempozuelos (M) Carlos Talabante; 820 over Villar del Olmo (M) Juan C. del Moral; 150 over Sureste natural park (M) Óscar Oeo; 600 over Carabanchel (M) Pablo Gamarra; 250 over Villaviciosa de Odón (M) Eduardo Blanco; 160+280 over Majadahonda (M) Ricardo Fernández, Arturo Esteban; 300+100 over Chamartín (M) Fran Gómez, Alberto Ucelay; 350+44+60+220+500 over Pozuelo de Alarcón (M) Mónica Carrasco, Sonia Wandosell; 200 over Somosaguas (M) Felisa Verdejo; 279 over Casa de Campo (M) Rafa Al; 108 over the River Manzanares (M) Santiago Delgado; 98 over Azuqueca de Henares (GU) Fernando Brioso; 47 over Ridarredonda (GU) Rodri G. Vegas; 15 over Binéfar (HU) Ana Adani; 448 at La Mueda reservoir (NA) Teresa Subiza; 100 over Aldeamayor de San Martín (VA) Samuel de la Calle; 500 over Tarazona de Guareña (SA) Patricia Sánchez; 330 over Villaflores (SA) Manu Santa-Cruz; 400 over Catalañazor (SO) Virginia Marco; 50 over Arcos del Jalón (SO) José Guerra, Marc Gálvez; 1,250 roost at a temporary lagoon at Ejido del Campo, Villacañas (TO) Ángel Velasco (SEO-TO); 124 over Pastrana (GU) Cristina Pintor; 700 at Villafáfila nature reserve (ZA) Olivier Lалуque; 1,450 over Cáceres plains, Sierra de Fuentes (CC) Dani Hernández, Alba Andrés, Antonio Méndez, Ángel L. Méndez; 28 over Fuente del Fresno (CR) Alba Becerra, Mario Fernández; 95 over Navalepino (CR) Manuel Flores; 1,400 over Aranjuez (M) Elver G., Jesús Ruíz; 100 over Murillo (LR) Pablo; 70 over Alfaro (LR) Óscar Ruíz; 15 over Fresno de Torote (M) Pablo de la Nava; 1,600 over Meco (M) Lorenzo Rodríguez; 200 over Colmenar Viejo (M) David Serrano; at least 35,000 arrive at Gallocanta lagoon (TE/Z) Carmen M^a Ayuso, Juanma Sánchez, Felipe Rosado, Antonio Torrijo, José M. Pueyo, José Á. Sánchez; 1,300 roost at Sotonera reservoir (HU) Juan L. Muñoz; several flocks arrive at 18:15h at Sotonera reservoir (HU) Esther Yera.



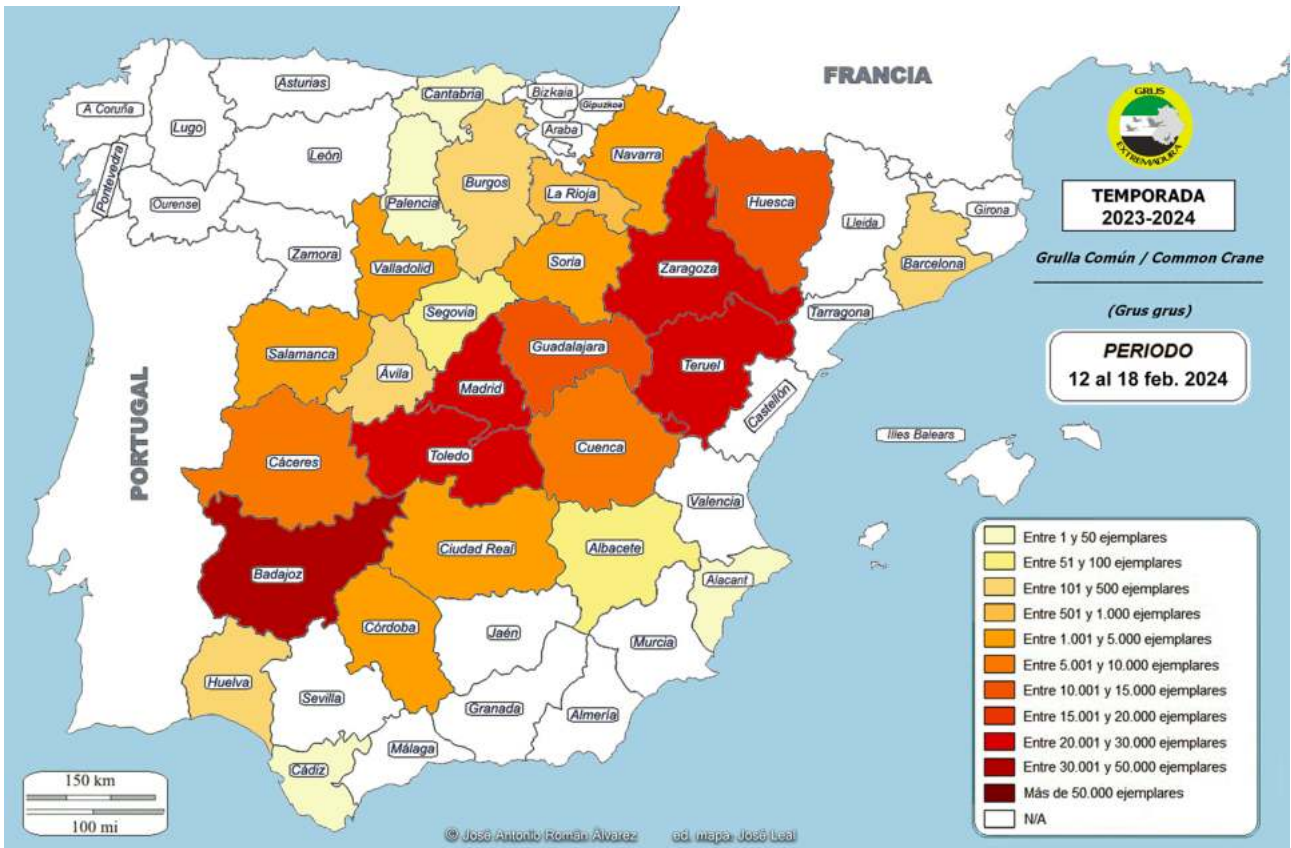
Image nº 126: Cranes over Palacios de la Sierra (BU). Photo: Juan I. Martínez

-18/02/24: 1,200 roosted at El Altillo Grande lagoon, Lillo (TO), leaving on migration, apart from 350 which stayed, Ángel Velasco (SEO-TO); at least 1,700 roosted at Buendía reservoir (GU) from where they set off on migration, Fernando Gómez (DALMA); 338 roosted at Grande de la Dehesa lagoon, Rabanera del Campo (SO) Juan L. Hernández, Isabel Ortega; 50 over Miajadas (CC) José M. Soria; 3,357 leave Sotonera reservoir (HU) Kees Woutersen; 176+214 over Ejea de los Caballeros (Z) Javier López; 23,000 set off at 10:30h from Gallocanta lagoon (TE/Z) Carmen M^a Ayuso, Juanma Sánchez, Felipe Rosado, Antonio Torrijo, José M. Pueyo, José Á. Sánchez; 2,000 over Alcocer (GU) Fernando Gómez (DALMA); 300 over the River Mayor (CU) Fernando Alonso; 130+150 circling over Grande lagoon, Villafranca de los Caballeros (TO) Ángel Velasco; 345+230 over Villar del Infantado (CU) Ángel Arellano; 2,000 over Utebo (Z) between 13:06h and 13:35h, Ignacio Romero; 500+230 over Zaragoza Francisco J. Sampietro; cranes arrive at 14:05h at Gallocanta lagoon (TE/Z), although some flocks continue without stopping, Francisco Quesada, María Berna; 45+36+15 over El Carrascalejo (BA) Agapito J. Verde; 300 over Zaragoza, Josean Domínguez; 300 set off from Borbollón reservoir (CC) Miguel Todón; 640+700 over the River Mayor valley, Palomarejo (CU) Fernando Alonso; 16 over Fuentes de Nava (P) Fernando Jubete Guzón; 450 over San Esteban de la Sierra (SA) Cristina Giner; 350 over San Mateo de Gallego (HU) Jorge Serrano; 250 over Tamajón (GU) Javi Calvo (DALMA); 40+150+40 circling over Boadilla del Monte (M) Yolanda Díez; 270+80 over Alfaro (LR) Jesús Ucha; 250 over Cervera (LR) Javier Robres; 100 over Sotos del Alfaro (LR) Juan P. Malumbres; 300 over Guadalajara, Santi; 72+246+232 over Villar del Infantado (CU) Ángel Arellano; 150 over Pamplona (NA) Rajen Ayerra; 700+100 over Yebes (GU) Laura Calvo (DALMA); 1,500 feeding at Curve (HU) Eduardo Gracia; 200 in a barley field at Bujaraloz (Z) Conchi Esteban; 2,000 at Buendía reservoir (GU) Carlos Arroyo (DALMA); 46 over Proserpina reservoir, Mérida (BA) Juan A. López; 200 over Ugena (TO) Luis Conde, Conchita Torres; 400+350 over Tarancón (CU) René A. Priego;

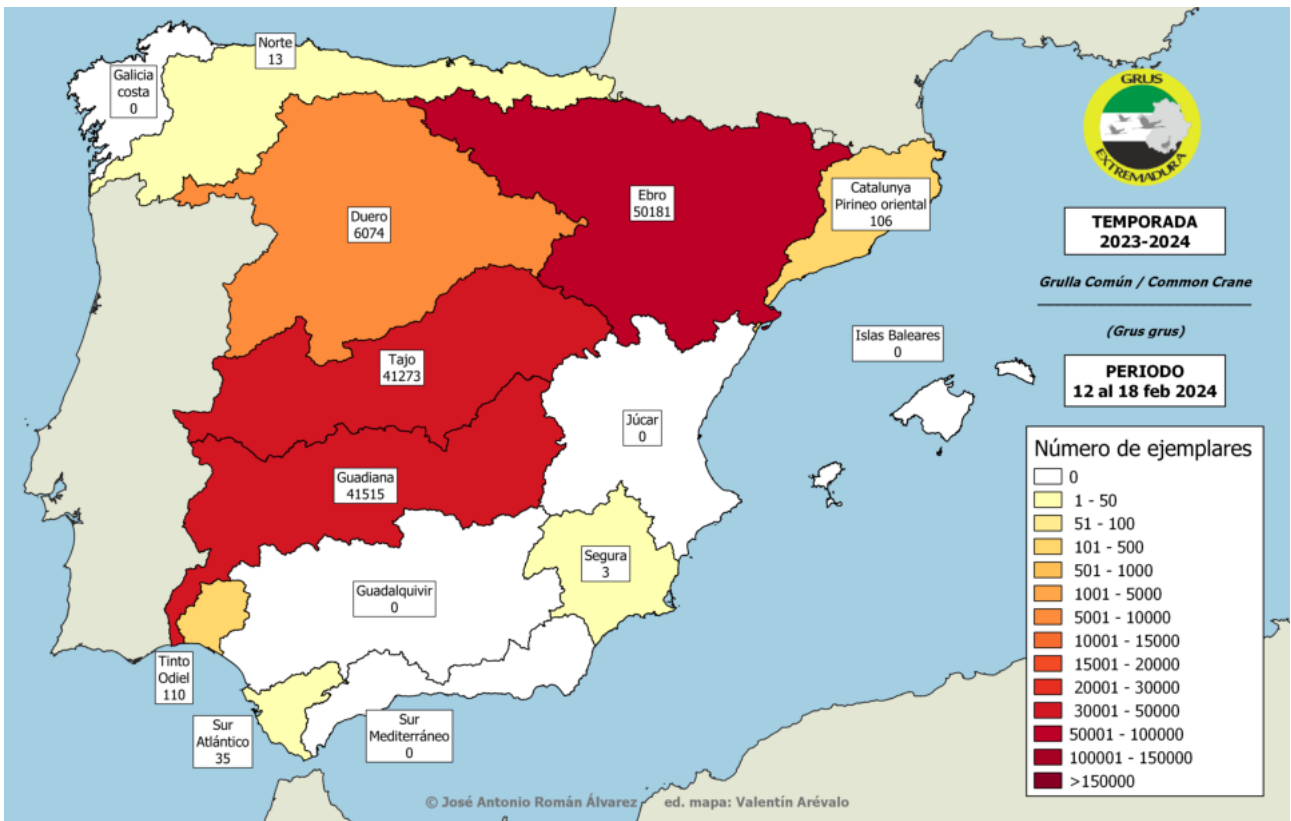
60 over Torelló (B) Romina Mesón; 30 over Mérida (BA) Jon Duifhuis; 17 circling at Montijo (BA) Arturo Pérez; 130 over Navalpino (CR) Manuel Flores; 57 over Torrijos (TO); 300 over Velada (TO) Néstor L. Mira; 300 over Casafranca (SA) Fernando Aranguren; 290 over Arrabal del Portillo (VA) Samuel de la Calle; 168 over La Sequera de Haza (BU) Roberto Calleja; 200 over Valdelubiel (SO) Luis Negredo; 65 over Dombellas (SO) Iker Barriales, María del Mar Calle; 125+635 over Aranjuez (M) Rafa Al, José A. Sánchez; 40 over El Raso lagoon (M) Juan C. Ortiz; 4 over Leganés; 500+75 over Villaviciosa de Odón (M) M^a José M. Cenamor; José L. Machuca, Mark Davis; 376+500 over the River Guadarrama (M) Juan F. Fernández, Carmen Díez; 500 over Majadahonda (M) Rafael Hidalgo, 350 over Fuente el Saz del Jarama (M) Paul Huibers; 40 over Alcalá de Henares (M) Enrique Villaespesa; 600 over the River Henares (GU) Ángel Vela; 400 over Torremocha del Jarama (M) Alfonso Jiménez; 300 over Guadalix de la Sierra (M) Óscar Oeo; 50 over Valdetorres del Jarama (M) Abel Casado; 7 over Monreal del Campo (TE) Elena Cantalapiedra; 120 over Longares (Z), 300 over Alfamén (Z) and 2,000 over Calatorao (Z) Thomas Rickfelder; 1,200 over La Muela (Z) Javier Train; 254 over Guadalajara, Javier Sopeña; 700+ over Los Mallos de Riglos (HU) Francisco Quesada; 1,000 over Miravete Peak (CC) between 13:00h and 15:00h, Neil Renwick; 819+300 over Zaragoza, Alfredo Sánchez, José A. Domínguez; 50 at Urriés (Z) Ángela De Castro; 500 over Sangüesa (NA) Itziar Almarcegui; 250 over Pamplona (NA) Pedro Arratibel; 536+263 over Clavín (GU) Luis Rodríguez; 30,000+ arrive at Gallocanta lagoon (TE/Z) Felipe Rosado; 5,000 arrive at Sotonera reservoir and continue towards the Pyrenees, and up to 13:00h some 8,000 arrive and stay, and more flocks arrive after 16:00h. At dusk, some 10,000 roost here, José M. Canudo, Juan L. Muñoz, Virginia Castellón, Esther Yera; passage over Odón (TE) at 19:52h; passage continues over Alcocer (GU) at 20:26h.



Image nº 127: Cranes taking a thermal over Madrid. Photo: Pablo Gamarra



Map nº 43: Migration by provinces between February 12 and 18



Map nº 44: Migration by catchment areas between February 12 and 18

A week of intense migration through the centre of the peninsula, while cranes cross the Pyrenees en masse, although the weather stopped them at the end of the week.

-19/02/24: 25,000 roosted at Gallocanta lagoon (TE/Z) and although they set off on migration they returned because of the strong north wind, Antonio Torrijo; 850 over the Sierra del Madero, Matalabras (SO) Juan L. Hernández, Elena Suárez; 150+100+100+75+200+180 over Aldea del Cano (CC) Gus Gahete; passage over Guadalajara, Mario (DALMA); 300 leave Yesa reservoir (HU) Javier López; 15,000+ migrating through the Central Zone of Extremadura (BA) Manuel Gómez Calzado; 400 over Las Rozas (M) Juan P. Fresno; 600 over Muel (Z) Esther Charles; 2,985 in 15 flocks between 15:10h and 16:40h pass over Sevilla la Nueva (M) Mara Brans; 260 over Zaragoza, Francisco J. Sampietro; 77 over Arévalo (AV) Diego García; 250 over Guadalajara, Juanjo Calvo (DALMA); 1,845 set off from Yelbes (BA) between 12:00h and 12:30h, José A. Román; 10 over Jerez de la Frontera (CA) Henry Sharp, Juan Rodríguez; 534 over Alcollarín reservoir (CC) Neil Renwick; 25 over Monfragüe National Park (CC) Jan Duifhuis; 500 over Navalcán reservoir (TO) Daniel Suárez; 200 over Las Perdices (TO) Pepe Buendía; 450 over Aranjuez (M) José A. Sánchez; 500+1,100 over El Pardo (M) David Pasos, Felisa Verdejo; 120 over Majadahonda; 100 over Villanueva de la Cañada (M) José Carreras; 500 over the Autonomous University, Madrid, Víctor Escribano; 60 over Valdetorres del Jarama (M) David Martínez, Beatriz Cortés; 22 over Fuentecantos (SO) Juan L. Hernández; 300 over La Alfranca (Z) Alfredo Sánchez; 200+110+6 over Zaragoza, Ángela de Castro, Adrián Suárez, José A. Domínguez; 150 over Mallén (Z) Isabel Jaime; 120 over Huesca, Jorge Lardiés; 253 over Peraltilla (HU) Raúl Altemir; 120 over Monzón (HU) Carlos Perallón; 4 over Ainsá (HU) Miriam Helechos; 100 over Pamplona (NA) Haritz Sarasa; 6 over Monzarbarba (Z) Josean Domínguez; 2,500 set off from Rosarito reservoir (CC/TO) Dave Langlois; 1,000 over dehesas near Naval Moral de la Mata (CC) Sofía Moreno, 450 over Saucedilla (CC) and 500+ over Almaraz (CC) Amparo Piz; 7 at Sotos De Alfaro (LR) Juan Hernández; 160 over Pinto (M) Vicente López; 16 over Ugena (TO) Luis Conde; 112 at La Zolina reservoir (NA) Haritz Sarasa; 3 over Feria (BA) Luis Ribeiro; 300 over Baños de Montemayor (CC) Jorge Iglesias; 23 over Esparragalejo (BA) Jesús Crespo; 15,000 set off from Sotonera reservoir for Riglos (HU) and at 17:00h flocks begin to arrive from the east, 8,000 roosting, José M^a Canudo, Esther Yera, Juan L. Muñoz, 340 roost at El Hoyo lagoon (AV) Arón Blázquez.



Image nº 128: Cranes setting off on migration from Yelbes (BA). Photo: José A. Román

-20/02/24: Between 10:40h and 12:00h 21,643 leave from Gallocanta lagoon (Z/TE) Antonio Torrijo *et al*; 70 over Huesca, Rajen Ayerra; 1,000 Cubo de Hogueras (SO) Virginia Marco; 172+1,000+1,500+100 over Zaragoza, Javier, Josean Domínguez; 1,800 over Soria, Sergio Pérez; 722 in 7 flocks over Navalmoral de la Mata (CC) Alberto Cansado; 9,200 set off from Sotonera reservoir (HU) Kees Woutersen; 1,838 over Matapegas, La Nava de Santiago (BA) Marce Díaz; 250+300+150+100+200 over Cubillo de Uceda (GU) Jesús Serrano; 450 over Ugena (TO) Conchita Torres; 43 over Torrijos (TO) Marco Ansón; 350 over Monroy (CC) Amparo Piz; 1,000+2,500 over Madrid, Javier Gayo, Juan C. Paniagua; 90 over Badajoz, Nicolas Pérez; 60 over Ugena (TO) Sagrario Ballesteros; 110 over Pinto (M) Vicente López; 110 over El Campillo (GU) David Meléndez; 50 over Leganés (M) Alfredo Mirat; 1,500 over Sevilla la Nueva (M) Mara Brans; 19 over Badajoz, Nicolás Pérez; 450 over Talavera de la Reina (TO) Alicia Casillas; 9,000 in several flocks over Valdenuño (GU) Jesús Serrano (DALMA); 326 over Móstoles (M) Paula González; several thousand arrive at Sotonera reservoir (HU) Esther Yera; 400 over Fontanar (GU) Toni; 700 over Yunquera de Henares (GU) Fernando Gómez (DALMA); 1,650 over Alcalá de Henares (M) Jesús; 109+207+101+11+80+160 over Chiloeches (GU) Ernesto de Ancha, Eva de Ancha; 1,600 over Trujillo (CC) Toon Pop; 1,200 over Baztán (NA) Xabier Etxarri; 77 at Hoyo de la Cruz, Bujaraloz (Z) José L. Rivas; 20 over Alange (BA) Martin Kelsey; 216 over Montijo (BA) Arturo Pérez; 350 over Dosbarrios (TO) Óscar Frías; 210 over Toledo, Luis T.; 580 over Aranjuez (M) Ismael Bayo; 7 over Valdemoro (M) Jesús Pérez, Chemi Ibáñez, Elena PR, José M. Ranz; 300 over Madrid, Christophe Pontegnie; 300 over Valdemoro (M); 500 over Soto de Viñuelas (M) Christy Esmahan; 300 over Villalbilla (M) Víctor Sánchez; 100 over Tardajos de Duero (SO) Virginia Marco; 812 over Meco (M) Lorenzo Rodríguez; 120 over Casatejada (CC) Álvaro García; 250 over Arrabal del Portillo (VA) Samuel de la Calle; 2,500 over Acedera (BA) Manuel Gómez; 300 over Trujillo (CC) Cristina Giner; 625+400 over Zaragoza, Enrique Pelayo, Alfredo Sánchez; 1,100 over El Burgo de Ebro (Z) Juan A. Domínguez; 1,500 over Daroca (Z) Gonzalo Peña; 70 over Unzué (NA) Rubén Hernández; 600 at Pitillas lagoon (NA) Gus Gahete; 250 at La Zolina reservoir (NA) Ignacio Alonso; 320 over Badostain (NA) Moisés Zozaya; 150 over Pamplona (NA); Teresa Subiza; 328 over Jaca (HU) Julián Muñoz; 150 over Aranda de Duero (BU) Miguel Pérez; 83 over Villar del Rey (CC) and 7 over Herrerueta (CC) Luis Ribeiro; 2,500 set off from the Rosarito reservoir area (CC/TO) Dave Langlois; 100 over the River Almonte, Jaraicejo (CC) Eduardo J. Fernández; 60 over Ciudad Real, Francisco Hidalgo; 812 over Meco (M) Lorenzo Rodríguez; 100 over Fuente Obejuna (CO) Guillermo López; 320 over Madrid, David Valentín; 200 over Sureste natural park (M) Juan Morales; 200+ over Montilla (CO) Antonio Lucena; 320 over Montalbanejo (CU) Nelson Mesonero; 100 over Castellò d'Empuries (GI) Ramón Aguilar; 22 at El Hondo reservoir (A) Marcos Real, José A. Agulló; 200 over Badajoz, Jesús; 80 over Mondragón (G) Manu Santa Cruz; 3,500 San Agustín de Guadalix (M) Javier Gómez; 104 El Hoyo lagoon (AV) Jorge Leonor, José R. Cuervo; 1,600 over Magasca (CC) SEO-CC.

-21/02/24: 29,700 set off from Gallocanta lagoon (Z/TE) between 10:40h and 12:00h, Antonio Torrijo *et al*; 100 arrive at Bujaraloz (Z) at 07:18h, Conchi Esteban; 2 at Almansa salt flats (AB) Pablo Olaya; at 10:45h 22,190 leave from Sotonera reservoir (HU) Francisco Quesada, Carlos Neila, Kees Woutersen, Rob Mooser; 110+220+2,000 over Cervera del Río Alhama (LR) Ignacio Gámez; 80 over Huesca, Rajen Ayerra; 60+20 over Los Blázquez (CO) Marga Martín; 800 over Villanua (Z) Víctor Fresno; passage over Torres de Berellén (Z) Jesús Causape; passage also over Barbastro (HU) Raúl Aguilera; 70 over Aldeacipreste (SA) Cristina Giner; 129+248 over the air base at Zaragoza; 763 in three flocks over Montijo (BA) José L. Bautista; 2,143 over Toledo in 7 flocks, Manuel Rosa; 441 over Navalvillar de Pela (BA) Francisco Sierra; 210 over Casa de Campo (M) Mara Brans; 161 over Valdesparten (Z) Daniel Enfedaque; 80 over Aldeacipreste (SA) Cristina Giner; 80 over Casa de Campo (M) Ángel Victoria (GOEP); 350 over El Burgo de

Osma (SO) Juan L. Muñoz; 125 over Grañen (HU) Silvia Duque; 200+70 over Guadalajara, Ana Herrero, Javi Calvo (DALMA), Alejandro Arroyo; several thousand arrive at 16:59h at Gallocanta lagoon (TE/Z) M^a Antonia Romero; 200 over Guadalajara, Ana Herrero (DALMA); 300 circling over Torrefresneda (BA) Antonio M^a Sánchez; 27 over Honrrubia (CU) Félix Llaveró; 150 over Castelló d'Empuries (GI) Ramón Aguilar; 250 over Vitoria/Gasteiz (AR) Íñigo Navas; 810 over Montijo (BA) Arturo Pérez; 150 over Monfragüe National Park (CC) José M. Jiménez; 100 over El Vicario reservoir (CR) Manuel Ruíz; 150 over Tablas de Alarcos (CR) Francisco Hidalgo; 250 at Camino de Villafranca lagoon and 1,500 at Salicor lagoon (CR) Beatriz Cortés, Javier Hernández; 200 over Carabanchel (M) Luke Dadds, Johnathan Dadds; 263 over Aluche (M) Alfonso Hervás; 80+142+130 over Madrid, Santiago Delgado, Christophe Pontegnie, Miguel Martín; 800+220 over Rivas Vaciamadrid (M) Óscar Frías; 5 over El Pardo hills (M) Alfonso Luengo; 252+329 over Zaragoza, Roberto Peña, Héctor Pinilla; Daniel Lozano; 158 over Ejea de los Caballeros (Z) Luis M. Martínez; 13 over Pedraza de Campos (P) Francisco J. Calvo; 220 at La Zolina reservoir (NA) Nan Martic; 1,550 over Ugena (TO) Luis Conde, Cristina Cabañas, Conchi Conde; 18 over Herrera del Duque (BA) Ángel López; 100 over Valdilecha (M) Pepe Castaño; 400 over Buitrago (SO) Eduardo Alfaro; 1,000 at Pitillas lagoon (NA) Manuel Hermosilla; 150+22 over Corral de Calatrava (CR) Francisco Hidalgo; 700 over Mondéjar (GU) Chemi Ibáñez; 90 over Monfragüe National Park (CC) Sheila García; 120 over Mondéjar (GU) Fernando Gómez (DALMA); 225 over Plasencia (CC) Álvaro García; 330 over Villanueva de la Cañada (M) José Carreras; 400 over Aluche (M) Maríán Luisa Gil; 177 over Liguierre de Cinca (HU) Adrián Suárez; 90 over the River Guadajira (BA); 183 over Vitoria/Gasteiz (Araba) Jorge; 73 over Badajoz, José L. Sardiña; 170 at Chinchilla del Monte (AB) Patrick Moussa.



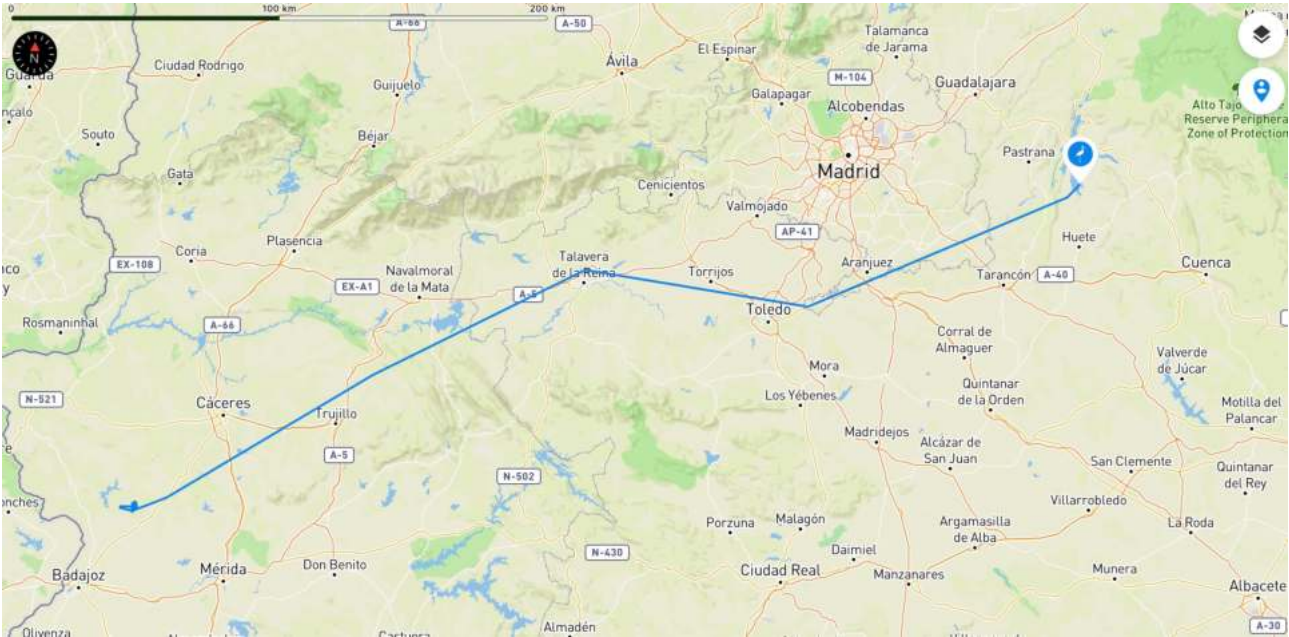
Image nº 129: Migrating cranes at Gallocanta lagoon (Z/TE). Photo: María Carmen Tornos

-22/02/24: 25,000 at dawn at Gallocanta lagoon (Z/TE) Antonio Torrijo: 2,500 go over Griñón (M) M^a Victoria Cabañas; 300 over Zaragoza, Juanan Domínguez; 600 over Movera (Z) Juan R. Mora; several thousand over Zaragoza, Eva Gascón; 400 over Valferro (Z) Juan Domínguez; 8,760 set off from Sotonera reservoir (HU) Kees Woutersen; 193 over Cornalvo reservoir, Mérida (BA) Elvira del Viejo; 68 over Jirueque (GU) Peina (DALMA); 80 over Grañen (HU) Silvia Duque; 2,000 over Hinojos (GU) Patricia Alcázar; 114+24+24+16+146 over Bargas (TO) Marcos Ansón; 30 over La Nava de Santiago (BA) Martin Kelsey; 30 over Corral de Calatrava (CR) Francisco Hidalgo; 285 over Colmenar de Oreja (M) Susana B.; 60 over Las Cubillas (M) Pedros Martinian; 25 over Villaviciosa de Odón (M) Mark Davis; 10 over Madrid, Luke Dadds, Johnathan Dadds; 100 over Daganzo de Arriba (M) Alberto Moreno, Jaime González, Sergio López; 280 over Torremocha del Campo (GU) Samuel Aunió; 200 over Zaorejas (GU) Ángel Vela; 100+4,000+250+2,000 over Muel (Z) Javier Ferreres; 250 over Zaragoza, Héctor Pinilla; 4,420 over San Martín de Gállego (Z) Fer Goytre; 1,580 over Ejea de los Caballeros (Z) Luis M. Muñoz; 1 at Sotos de Alfaro (LR) Javier Robres; 105 over Atauta (SO) Juan L. Hernández; 2 at Moguer (H) Sebastián Giraldo; 100 over Valdetorres del Jarama (M) Luke Dadds, Johnathan Dadds; 281 over Cervera (LR) Roberto Vegas; 75 over Huesca, Rajen Ayerra; 55 over Cristina (BA) Francisco J. Martín; 500 over Navalморal de la Mata (CC) Beatriz Bermejo, Alexander Nazarenko; 22,800 set off on migration from Gallocanta lagoon (TE/Z) and 26,424 are censused in the evening, S.A.R.G.A; around 25,755 arrive at Sotonera reservoir from 12:48h, Kees Woutersen *et al.*



Image nº 130: Cranes leaving Gallocanta lagoon (Z/TE). Photo: M. Carmen Tornos

-23/02/24: Heard over Logroño (LR) at 07:30h Francisco Cervero; 16,650 cranes set off from Sotonera reservoir in strong westerly wind, but 7,420 return and 8,000 stayed at the reservoir; at least 23,000 set off from Gallocanta lagoon (Z/TE) Antonio Torrijo, José M. Pueyo *et al*; 33+ over Villarreal de San Carlos (CC) José Leal; 7 over Miajadas (CC) José A. Román; 300 over Guareña (BA) M. Benítez; 567+480+362 over Ejea de los Caballeros (Z) and 300+150+450+350 over La Puebla de Albortón (Z) Javier Domínguez; 100 over Calamonte (BA) Elvira del Viejo; 80 over Grañen (HU), 200 over Curbe (HU) and another 200 over Sodeto (HU) flying at 90 km/h, Silvia Duque; 70 over Guadalajara, Sergio López (DALMA); hundreds over Luesia (Z) Eva Rubio; hundreds also over Litera Alta (HU) Alberto; 100+ over Cinca Medio (HU) Carlos Perallón; passage over Jaca (HU) Ana Piedrafita; 200+470 over Guadalajara, José Mari (DALMA); 560 over Cabanillas del Campo (GU) Cristina Ruíz; 150+200+200 over Guadalajara, Carlos Paulos (DALMA); 450 over Huesca, José M^a Canudo; 180 over the River Manzanares (M) Ángel Victoria (GOEP); 70 over Villalba de los Barros (BA) Juan G. Miranda; 3,000 try to leave from Yesa reservoir (Z) although the wind makes them return, Javier López; 110 over Jaca (HU), 50 over Borres (HU) and 100 over Sabiñánigo (HU) Nacho Ruíz; 150 at Salicor lagoon (CR) Juan Calonge; 388 over Don Álvaro (BA) Fergus Crystal; 150+400+78+1,300 over Mérida (BA), 150+900 over Montánchez (CC) and 43 over Sierra de Fuentes (CC) Toon Pop; 60 over Peralada (GI) and 38 over Castelló d'Empuries, Gerard Carbonell; 1,000+38+350 over Castelló d'Empuries (GI) Diego Callau, Gerard Carbonell; 200 over Llançà (GI) Ponç Feliu; 2,000 over Castelló d'Empuries (GI) Ramón Aquilar; 1,100 over Pau (GI) Gerard Carbonell; 107 over Riudaura (GI) Francisco Sánchez; 300 over Sales de Llierca (GI) I. Ulloa; 70 over Balaguer (LL) Joan Rodríguez; 200 over Baix Pallars (LL) R. Boumort; 48 over Campdevàrol (GI) Feli Guardado; 300 over Aluche (M) María Luisa Gil; 83 over Bonhabal stream, Almendralejo (BA) Francisco Macías; 384 over La Aldea del Obispo (CC) Neil Renwick; 150+160+51 over Monfragüe National Park (CC) Jorge Martínez, Sheila García, Paco de la Fuente, Antonio Román; 22 over Saucedilla (CC) Beatriz Bermejo, Alexander Nazarenko; 80 over Arrocampo reservoir (CC) Adrián Sánchez, Gonzalo Peña; 5 over Talavera de la Reina (TO) and 160 over Santa Olalla (TO) José A. Calvo; 9 over Aranjuez (M) Eduardo Sevilla; 120 over Villarejo de Salvanes (M) Francisco Garnacho; 60 over Sureste natural park (M); 385 over Arrabal del Portillo (VA); 70 over Guadalajara, Sergio López; 80 over Valdetorres del Jarama (M) José A. Matesanz; 120+30 over the River Manzanares (M) Santiago Delgado, Eduardo Blanco; 500 over Erla (Z) Javier Ferreres; 17 over Ejea de los Caballeros (Z) Luis Gracia; 160 at Pitillas lagoon (NA) Sergio GM; 63 over Jaca (HU) Daniel Barceló; 50 over Sallent del Gállego (HU) Juan A. Gutiérrez; 448 over La Puebla de San Román de Castro (HU) and 4,800+3,100 over Aler (HU) José L. Cortés; 15 over Bàscara (GI) Llorenç Rubiò; 30 over Baños de Montemayor (CC) and 2 over Montejo (SA) Laura Marín, João Tomás; 4 over Malpartida de Plasencia (CC) Antonio Román; 5 over La Portiña reservoir (TO) José A. Calvo; 21 at El Hondo reservoir, Elx (A) Mark Simmonds; 29+78 over Trujillo (CC) and 174 over Magasca (CC), María Bueno, Alberto Laiz; 80 over Saucedilla (CC) Gonzalo Peña; 200 over Madrid, G. Bar; 38+120 over the River Manzanares (M) Eduardo Blanco, Santiago Delgado; 148 over El Retiro park (M) Ángel L. Neira; 1,400 at Caminreal (TE) Antonio Torrijo; 42 over Gadiana (BA); 190 over Las Cuestas, Montijo (BA) Arturo Pérez; 480 over Monfragüe National Park (CC) Hugo Sánchez; 350 over Puebla de Obando (BA) Juan de D. León – this flock included the Lithuanian cranes which began their migration at 11:00h and travelled 385 km to Buendía reservoir (CU).



Map nº 45: Route taken by the Lithuanian cranes on 23/02/24. Source: Animal Tracker

-24/02/24: The wind affected migration departures from Gallocanta lagoon (Z/TE) which made them return after leaving, while others arrived from the south, José M. Pueyo, Antonio Torrijo *et al.*; the same happened at Yesa reservoir (Z) Javier López; at Sotonera reservoir (HU) 2,670 seem to have crossed the Pyrenees, or at least managed to continue eastwards and another 9,930 returned, Kees Woutersen, of which 3,700 flew over Huesca and returned to the reservoir because of the wind strength, Silvia Duque, Jorge Lardies; the group of Lithuanian cranes arrived at Gallocanta at 14:00h, after leaving Buendía reservoir (CU) at 10:45h. 1,598 grounded by the wind in rice fields at Capdesaso (HU) Eduardo Gracia; 400 over Torla (HU) which may have crossed the Pyrenees, Francisco J. Sampietro; 45 at Alcázar de San Juan lagoon (CR) Valentín López; 17 over Casbas de Huesca (HU) Renée Lankhorst; 130+7 over Castelló d'Empuries (GI) Diego Callau, Antoni Marinés; 200 over Llançà (GI) Ponç Feliu; 235 over Figols i Alinyà (LL) Jordi Dalmau; 24 over Olot (GI) Abril Rochet, Carles Tobella; 224 over Folgueroles (B) Pep Nogue; 350 over Torellò (B) Susagna Crosas; 150 over Vic (GI) Mique A. Paya; 48 over Preixana (LL) Carles Martorell; 70 over L' Esquirol (B) Miquel Mira; 600 over Charo (HU) Ferrán Guardia; 125 over Sabiñánigo reservoir (HU) Francisco J. Navas; 180 at Pitillas lagoon (NA) Juan I. Deán; 300 at La Janda (CA) Fernando Portillo; 47 over Puebla de la Calzada (BA) Jj Carreira; 2+25 over Monfragüe National Park (CC) Claudio Santamaría, Antonio Méndez, Ángel L. Méndez; 18 over Magán (TO) Javier Nicolau; 19 over El Vicario reservoir (CR) Manuel Ruiz; 100 over Alcarria de Alcalá (M) Charles Partington; 40 over Azuqueca de Henares (M) Nando Rivero; 70 over the River Cuervo (CU) Javier García; 150 over La Estancia, Castilistar (Z) Susana Lois; 520 over Pamplona (NA) Rajen Ayerra; 33 over Villeguillo (SG) Eduardo de Andrés; 3,200 over Abay (HU) Daniel Barceló; 1,400 over Aler (HU) José L. Cortés; 300 over Chesas de La Almunia (HU) and 150 over Ontiñena (HU) Arnau Guardia; 80 over Castillonroy (HU) Juanan Novales; 250 over Les Orenetes (GI) Eric Mozas; 362 over Castelló d'Empuries (GI) Olga Gairín; 250 over Borrassà (GI) Gerard Rigola; 1,100 over Sant Pere Pescador (GI) Ramón Aguilar; 300 over Organyà (LL) Joan Tatje; 100 over Lles (LL) Lluís-X. Toldrà; 24 over Olot (B) Pancho Pou; 75 at Fuente de

Piedra (MA) Nollie Merissen; 50 over La Palma del Río (CO) Rafael Vázquez; 80 over Montclar (B) Joan Estradas; 16 over Taradell (B) Ramón Prat; 120 over Abella de Conca (LL) Iván Almirall; 48 over Preixana (LL) Carles Martorell; 50 over Manlleu (B) David Castellano.



Image nº 131: Departure in strong wind, 23/02/24, from Gallocanta lagoon (Z/TE). Photo: José M. Pueyo

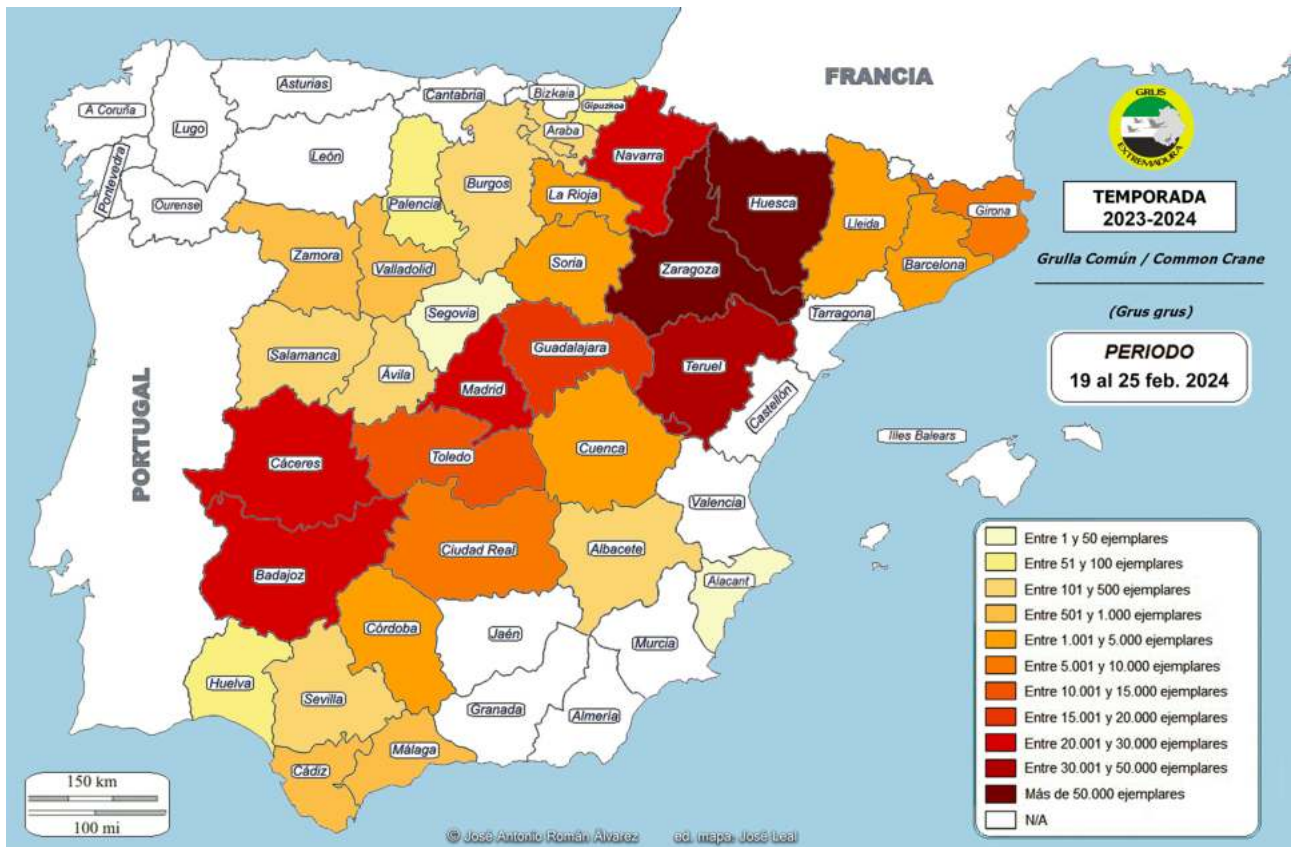
-25/02/24: 15 at dawn at Peña Hueca lagoon, Villacañas (TO) Ángel Velasco; 1,500 at dawn at Buendía reservoir (GU) Fernando Gómez (DALMA); 70 at Corral-Rubio (AB) Antonio Guillén (SAO); there was no migration at Sotonera reservoir (HU) because of heavy rain, and snow at altitude, Paco Quesada; at Gallocanta lagoon (Z/TE) some 5,000 managed to leave, despite the bad weather conditions, because of disturbance, Carmina Franco, Antonio Torrijo; 62+32 over Zaragoza, Francisco J. Sampietro; 420 at Grañen (HU) Eduardo Gracia; 142+1,911 over the River Gállego estuary (Z) José L. Rivas; 540 over Villar del Infantado (CU) Ángel Arellano; 100+400+1,000 over Castellò d'Empuries (GI) Ramón Homs, Olga Gairin, Guillem Saguer; 200 over Cardedeu (B) Llorenç Rubió; 10 in dehesas at Usagre (BA) - three family groups with 4 juveniles - Gus Gahete; 1 juvenile at Yelbes (BA) José A. Román; 700 over Movera (Z) José M. Sánchez; 170 over Utebo (Z) Alfredo Sánchez; 500 at La Janda (CA) Bryan Murray; 9 in Trebujena marshes (CA) John Canzelo; 320 in Doñana National Park (SE) Manuel Bárcena, Francisco Rivas; 150 over Trujillo (CC) Rafa Vicente; 1,500+132+560 over Zaragoza, José M. Sánchez, Alfredo Sánchez, Ángela Felipe; 3 over Ivars d'Urgell (LL) Jordi Dalmau; new flocks continued arriving at Sotonera reservoir (HU) and in the evening some 25,000 birds roosted, Esther Yera, Juan Muñoz, María Cañas, Pablo Valles, Paco Quesada.



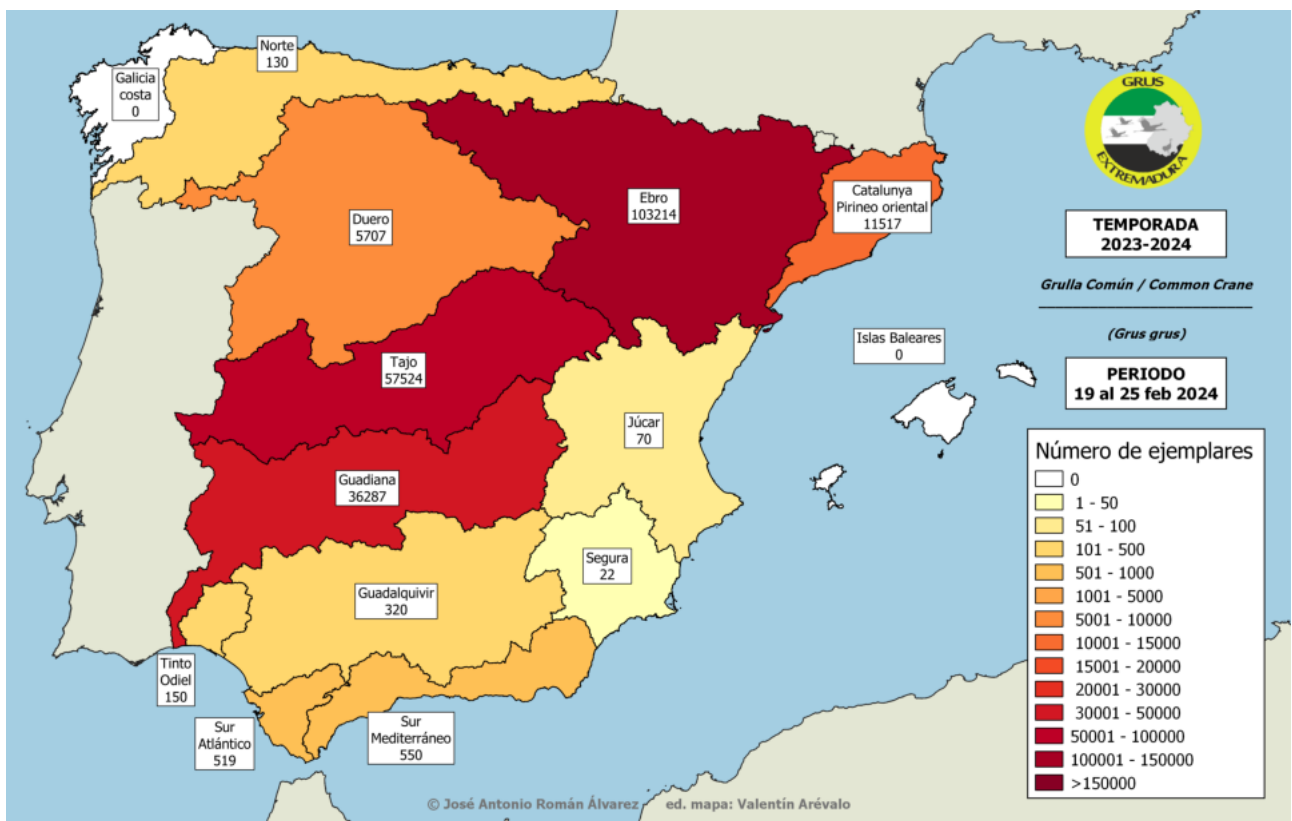
Image nº 132: Family in dehesa at Usagre (BA). Photo: Gus Gahete.



Image nº 133: Young individual at Yelbes (BA). Photo: José A. Román



Map nº 46: Migration by provinces between 19 to 25 February



Map nº 47: Migration by catchment areas between 19 to 25 February.

Many cranes have crossed the Pyrenees and the wintering areas have become empty, significantly reducing the flow through the west and centre of the Peninsula. They were held up in Aragón and the Pyrenees almost all week due to the adverse weather, although they tried to set off.

-26/02/24: At 10:54h some 4,000 birds set off from Yesa reservoir (Z), although half returned in small flocks, Javier López, at Canfranc (HU) some 340 were circling, trying to gain height, info: Javier López; 578+350+240+67+250 over Huesca, Rajen Ayerra, José M^a Canudo, Paco Quesada; 100 managed to leave Gallocanta lagoon (TE/Z) Antonio Torrijo; 500+ over Jaca (HU) Javier López; 171 feeding at Aldeaseca (AV) Víctor Coello; 12,376 set off from Sotonera reservoir (HU), another 2,734 returned and 1,200 stayed at the reservoir, Kees Woutersen; 30 over Lleida, Àlex Fonollosa; 4 over Aranjuez (M) Jannick Forquignon; 35 at Alcañiz salt flats (TE) Javier Vera; 300 over Sotos de Alfaro (LR) Jesús Ucha; 70 over Binéfar (HU) Juan C. Alberó; 90 over Aler (HU) José L. Cortés; 8 over Gibraleón (H) Juanjo Cipriano; >25,000 at Sotonera reservoir (HU) Francisco Quesada. The Lithuanian cranes left Gallocanta lagoon at 11:15h and arrived at Aiguamolls de L'Émpordà (GI).

-27/02/24: No migration at Gallocanta reservoir (Z/TE), where there are 9,000 cranes, Antonio Torrijo; 5,000 cranes tried to leave Sotonera reservoir (HU) but after 20 minutes they decided to land again; 220 over Alcázar de San Juan (CR) Valentín López; 57 over Montijo (BA) José L. Bautista; 300 over Oliva de Mérida (BA) and 6 at Palomas (BA) Lorenzo Alcántara; 60 at Manjavacas lagoon (CU) Javier García; 195 at Aldeaseca (AV), Arón Blázquez, Patricia, Víctor Coello; 40+100 over Castellò d'Empuries (GI) Olga Gairin, Núria Rovira; 300 over Cabeza del Buey (BA) Carlos Pacheco; 9 over Córdoba, José A. Hernández; 40 over Sanlúcar de Barrameda (CA) Rafa García; 245 over Huesca, KeesWoutersen; 27 over Ballestera lagoon (SE) Alberto Cebrián; 7 over Brozas (CC) Pedro Ribeiro .



Image nº 134 cranes trying to leave Sotonera reservoir (HU). Photo: Kees Woutersen

-28/02/24: 4,000 leave Yesa reservoir (Z), but return in small flocks, Javier López; 250 over Badajoz, Mari Cruz Zambrano; 300 from Valsequillo towards Belalcázar (CO) Juan F. Flores; 40 over Badajoz, José L. Vinagre; 715, one of them leucistic, around Los Canchales reservoir (BA) Joaquín Mazón, José Ledo; 183 over La Veguilla lagoon, Alcázar de San Juan (CR) Vicky García; 125 over Alcalá de los Gazules (CA) Juan A. Díaz (GOEP); no migration at Sotenera reservoir (HU) because of the weather, where some 25,000 birds are grounded, Francisco Quesada; at Gallocanta lagoon (TE/Z) they are also held back by the wind, although some managed to leave, Carmina Franco; 100 over Cabeza del Buey (BA) Carlos Pacheco; 699 over Badajoz, Jesús Guerrero; 80 over Chozos de Llera, Hornachos (BA) José L. Bautista; 50 over Cañada Juncosa (CU) Antonio; 77 at Honrubia (CU) Blanca López; 18 over Quintana de la Serena (BA) Ángel; 172+400 over Puerto Peña reservoir (BA) Ángel López, José A. Carrizosa; 28 over El Galacho de Juslibol (Z); 16 over La Aldea del Obispo (BA) Neil Renwick; 7 roost at Villafáfila Nature Reserve (ZA) Gonzalo Criado (Asoc. Sylvestris); 35 over Coria (CC) Miguel Todón; 55+150+58 over Villalba de los Barros (BA) Juan G. Miranda; 16+2 over Tarifa (CA) Olivier Lалуque, Uffa Damm; 350 at La Janda (CA) Gonzalo Gil; 300 migrating over Orellana (BA) at 18:00h, Manolo Gómez; 665 over Valdabra reservoir (HU) towards Almudévar reservoir (HU) Rajen Ayerra; 110 at Aiguamolls de L'Empordá (GI), the Lithuanian cranes among them, are also held up by the strong northerly wind, Jordi Sargatal, Jordi Martí-Alero; 73 at Tito lagoon (CU) Andrés Pinedo; 250 over the River Guadalquivir (CO) José Márquez; 450 over Socuéllanos (CR) Antonio J. Entrena; 203 over Alcázar de San Juan (CR) Pedro Bustamante; 15 over Almenara (CS) Marta Ibáñez, Manolo García, Pablo Santonja; 8 at Fuente de Piedra lagoon (MA) Antonio Romero; 2 over Tarifa (CA) Uffe Damm; 10 at Dehesa de Abajo (SE) Alison Rhodes, Sébastien Mauvieux; 86 over La Olmeda (SO) Juan L. Hernández.



Image nº 135: Cranes over Valdabra reservoir (HU). Photo: Rajen Ayerra

-29/02/24: 4,000 leave Yesa reservoir (Z) Javier López; 60+11+83+170+273 over Huesca, Rajen Ayerra; 3,123 roosted at El Cañizar reservoir (TE) Julen Santa Cristina; 7,000+ go from Gallocanta lagoon (TE/Z) Antonio Torrijo, José M. Pueyo; 17,000 leave Sotonera reservoir (HU) Kees Woutersen; the Lithuanian cranes leave Los Aigüamolls and are seen in a flock of 150 heading for the sea near Cape Ras, Llançà (GI) Gérard Defontaine; 20 over Écija (SE) Javier Rengel; 70 circling at Sangüesa (NA) Diego Zalbidea; 80 over Torrijos (TO) Cristina Gómez (SEO-TO); 72 at Honrubia (CU) Blanca López; 325 over Chicharrón (CU) Fernando Alonso; 8 over Guadalajara, José M. Gómez; 23 over Algallerín (CO) José Cañas; 200 over Fuertescusa (CU) Maribel (DALMA); 110 at La Albuera lagoon (BA) José L. Vinagre; 50 at Castellò d'Empuries (GI) Olga Gairin; 213 over Milanos (Z) in the opposite direction, Javier López; 60 over Sevilla, Tom Remans; 16 over Amposta (T) Simon Cheetham; 400 at La Janda (CA) Diana Navarro; 200 over Villalbilla (M) Kato Sánchez; 9 over Movera (Z) José M. Sánchez; 500 over Lorralde reservoir (Z) Elena Cantalapiedra; 550 over Palomera (CU) Fernando Alonso; 151 at Aldeaseca (AV) Jorge Leonor, José R. Cuervo, Eneko Leonor; 250 at La Janda (CA) Andrés Rojas; 230 very high over Lumbier (NA) Alberto; 16 at Cubilar reservoir, Logrosán (CC) Hartmut Hildebrand; 116 at Riobobos weir (SA) Antonio Ceballos; 180 over Lobera de Onsella (Z) Alejandro López; 74 over Torrejón de Velasco (M) Félix Arribas, Javier Txantxangorri; 37 at Pitillas lagoon (NA) A. Galache; 19,000 arrive at Gallocanta lagoon during the afternoon, 25,208 roosted, Francisco J. Sampietro (S.A.R.G.A); around 7,000 arrived at Sotonera reservoir (HU) and some 15,000 roosted, Esther Yera.

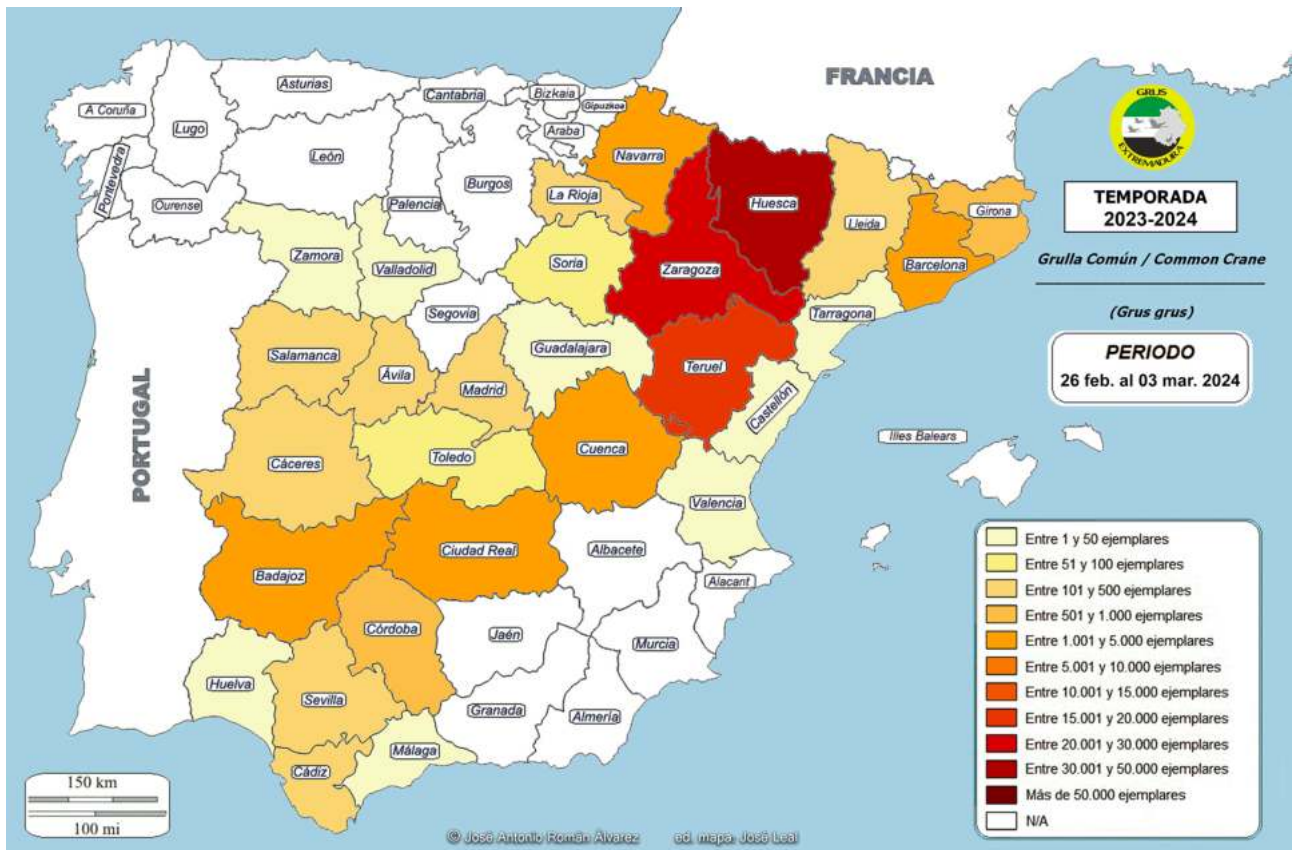


Image nº 136: Cranes over Amposta (T). Photo: Simon Cheetham

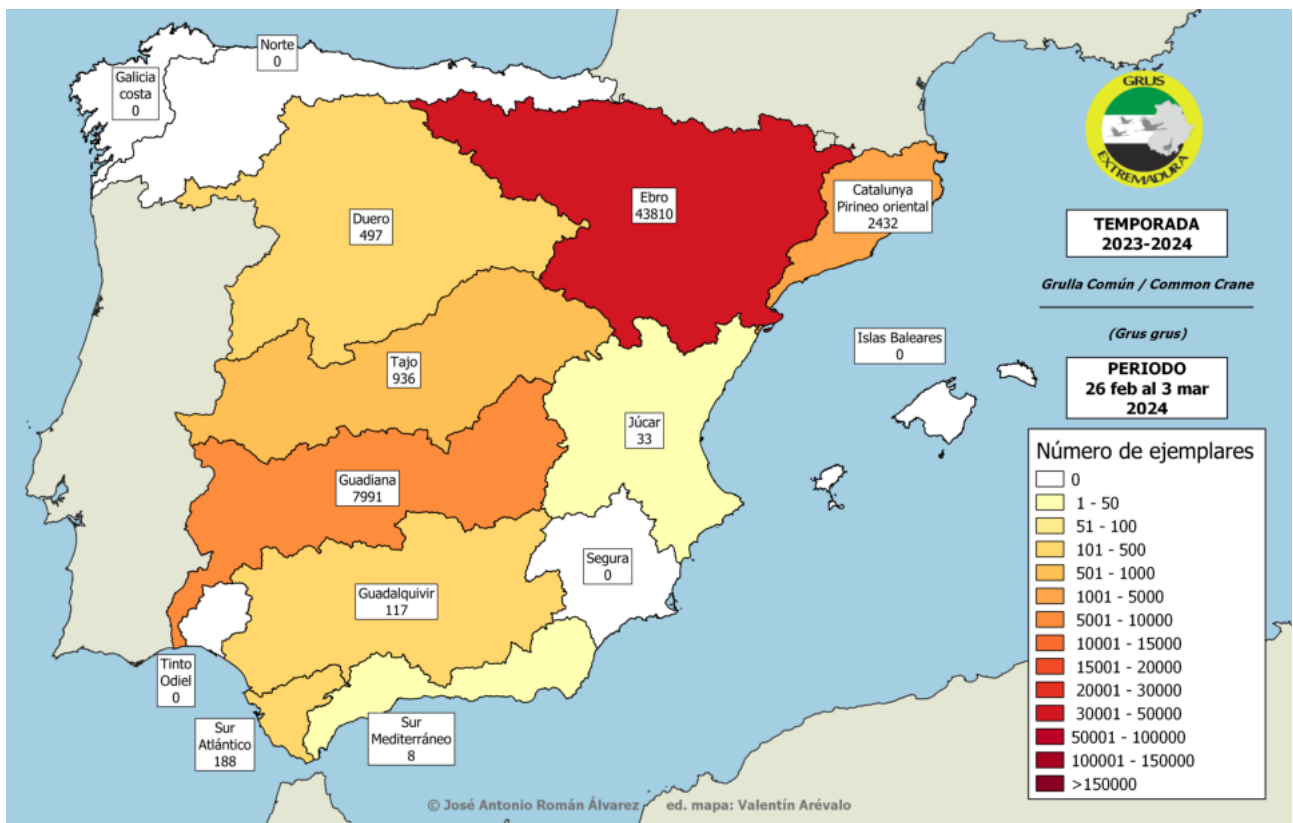
-01/03/24: 534 roosted at Yesa reservoir (Z) and set off on migration over the Roncal Valley (HU) Javier López; 23,000 leave from Gallocanta lagoon (Z/TE) Antonio Torrijo, José M. Pueyo; 6,915 leave from Sotenera reservoir (HU) Kees Woutersen; 39+40 over Los Canchales reservoir (BA) Elvira del Viejo, Miguel A. del Viejo; 450 over Zaragoza, Fernando Alonso; 55 over Badajoz, Mariano Cabrero; 1,000 over Peñafior de Gállego (Z) María Berna; 75 very high over Cornalvo reservoir (BA) Jesús Valiente; 65 over Valdecaballeros (BA) Chema Traverso; 80 over Santa Marta de Magasca (CC) Martin Kelsey; 65+45 over Galisancho (SA) Pedro L. Ramos; 1,000+500 over Huesca, Silvia Duque; 2,000 circling at Capdesaso (HU) Eduardo Gracia; 1,200 crossing Benasque Valley (HU) Luis M. Palacios; 24 over Corral de Calatrava (CR) Francisco Hidalgo; 85 over Barluenga (HU), 3,000 over the River Sotón (HU) and 600 over Esquedas (HU) Juan C. Alberó; 140+310 over Huesca, Jorge Lardies; 1,500 over La Alfranca (Z) José M. Sánchez; 6,000 over Loreto reservoir (HU) María CaApa; 300 over El Galacho de Juslibol (Z) Elena Cantalapiedra; 3,000 leave Gallocanta via Used (Z) Aitor Mora; 200 over Rupit (B) Xavier Ante; 7 over Sueca marsh (V) Martín Rey, Samuel Aunión; 11 over Racó de l'Olla, L'Albufera (V) Julen Santa Cristina, Alejandro Gómez; 7 over Toril (SA) Gonzalo Criado (Asoc. Sylvestris); 100 over Plans de Sió (LL) Teresa M. Aguiles; 200 at La Janda (CA) Olivier Lалуque; 1 over Sant Cugat del Vallés (B) Enric Ortega; 5 at Castellò d'Empuries (GI) Olga Gairin; 72 over Villar del Olmo (M) Juan C. del Moral; 436 over Zaragoza, Enrique Pelayo; 30 over El Peral (CU) Javier Martínez; 1,100 over Tavertet (B) Pep Noguera; 120 over Tárrega (LL) Francesc Pont; 90 at Tablas de Daimiel National Park (CR) María J. Valencia; 52 at El Pas reservoir (HU) Alberto Gasquet; 489 over Azuara (Z) Ricardo Pérez.

-02/03/24: There is no migration at Sotenera reservoir (HU) because of heavy rain, Kees Woutersen; 3,100 feeding at Tornos (TE) Felipe Rosado; 46 over Daroca (Z) Gonzalo Peña; 21 over La Mueda reservoir (NA) Javi Sola; 12 over the Guadalbaida valley, Posadas (CO) Manuel Moral; 11 over Montijo (BA) Arturo Pérez; 11 at Puebla de Alcollarín (BA) Martin Kelsey; 1 at Junta de los Ríos (CR) and 40 at Peña Hueca lagoon (TO) Jannick Forquignon; 36 over Huesca, María CaApa; 2,700 feeding at Capdesaso (HU) Eduardo Gracia; 2 at La Lalueza (HU) Daniel Barceló; 669 over Lumbier Gorge (NA) Alfonso Llamas; 18 over Loza reservoir (NA) Gaspar Zaldua; 16 in Trebujena marshes (CA) Gonzalo Gil; 260 at El Hito lagoon (CU) Raquel Martínez, Gumer González; 50 over Burlada (NA) Ángel Larumbe; 3,200 roost at Yesa reservoir (HU) Javier López.

-03/03/24: 280+150+120+75+80 over Villar del Infantado (CU) Ángel Arellano; 479 over Sasa de Abadiano (HU) Jorge Lardiés; 5,000 try to leave Sotenera reservoir (HU) but the strong wind makes them return to ground, Kees Woutersen, some 20,000 cranes are concentrated at this location, Francisco Quesada, Esther Yera; 1 juvenile at a temporary lagoon at Villacañas (TO) and another family of 4 at a nearby pond, Ángel Velasco; 670 over Pamplona (NA) Rajen Ayerra; 135 over El Higuerón (CO) José Cañas; 74 over Jaca (HU) Alberto Pastoriza; 100 over Lumbier Gorge (NA) Ana Tascón, Pablo Tascón; 68 over Lónguida (NA) Juan I. Deán; 225 over Tarn (LL) Jordi Castelló; 60 over Abay (HU) Daniel Barceló; 2,600 at Sigües (Z) Francisco Quesada; 200 over Ligüerre de Cinca (HU) Andrés Berros, Adrián Suárez; 58 at Aiguamolls de l'Empordà (GI) Rafael Reyes; 5 at Zarza de Granadilla (CC) Vicente Torres; 31 at Sancti Spiritus (SA) Miguel Martín; 1 at Cambrillos del Jarama gravel pits (TO) Javier Nicolau; 96 over Utxesa reservoir (LL) Xavier Parra.



Map nº 48: Migration by provinces between February 26 to March 3



Map nº 49: Migration by catchment areas between February 26 to March 3

At the start of the week clear spells opened up in the Pyrenees, allowing cranes delayed at Sotonera reservoir to cross the cordillera, while the wintering areas are empty, with only a few solitary individuals or groups of young and immature birds that are gradually arriving at Gallocanta lagoon.

-04/03/24: 8,450 leave Sotonera reservoir (HU) for Riglos, leaving 5,830 in crop fields, Kees Woutersen, Pablo Vallés; 20 over Lleida, Toni Leiva; 200 over Ponts (LL) Moisés Moreno; 300 over Zaragoza, Ricardo Pérez, Daniel Lázaro; 240 over Lomas del Gállego (Z) Thomas Rickfelder; 250 over Pamplona (NA) Patricia Andrés; 30 over Cortés reservoir (HU) Arturo Sanz; some 1,000 set off from Yesa reservoir (Z) Javier López; significant passage over Pamplona (NA) Diego Zalbidea; 200 set off from Gallocanta lagoon (Z/TE) María Berna; 3 at Campos del Paraíso reservoir (CR); 300 over Oskotz (NA) Xabi Urmeneta; 150 over El Grado (HU) David Clavería; 57 juveniles at Aldeaseca (AV) Patricia Alonso, Víctor Coello; 26 over Cadaquès (GI) Joan Ventura.



Image nº 137: Cranes leaving Sotonera reservoir (HU). Photo: Pablo Vallés

-05/03/24: 2,000 set off from Yesa reservoir (Z) towards Roncal (HU), crossing over Lumbier gorge (NA) Javier López; 5,320 go from Sotonera reservoir (HU) Kees Woutersen; 1,200 arrive at Yesa reservoir (Z) Javier López; 150 over Pamplona (NA) Carmen Montoro; 53+40 over Camarasa (LL) Albert Gispert; 180 over Loarre (HU) and 80 over Loscorros (HU) Juan C. Alberó; 66 at Dos Reinos lagoon (NA) and 100 at Pitillas lagoon (NA) Thomas Rickfelder; 236 over Loza reservoir (NA) Cuevas Ruiz; 500 over La Zolina reservoir (NA) Raúl Pascual; 50 over Abay (HU) Daniel Barceló; 87 over Castillonroy (HU) Mary Hooper, Maichel Hooper; 36 at San Salvador reservoir (HU)

Alberto Gasquet; 100 arrive at Gallocanta lagoon (Z/TE) Sofía Moreno; 15 at Lanuza reservoir (HU); 25+140 over Pamplona (NA) Alberto, Carmen Montoro; 45 over the Polytechnic School, Huesca, Rajen Ayerra; 32 at Pozuelo de Calatrava (CR) Mark Mckeown; 37 at Lechago reservoir (TE) Adrián Sánchez, Gonzalo Peña; 4,000 at Caminreal (TE) Antonio Torrijo; 50 over Daroca (Z) Gonzalo Peña; 600 at La Zolina reservoir (NA) Haritz Sarasa, Raúl Pascual; migrating flocks arrive at Sotonera reservoir (HU) at 14:40h, Esther Yera; 53 at Codo de la Esparraguera, Doñana National Park (CA) Manuel Bárcena; 19 at Boada del Campo lagoon (P) David Miguélez (F. Global Nature); 1,200 roost at Yesa reservoir (HU) Javier López.



Image nº 138: Flock at Lanuza reservoir (HU). Photo: Pablo

-06/03/24: 5,000+ set off from Gallocanta lagoon (Z/TE) Antonio Torrijo, María Berna; 3,300 leave from Sotonera reservoir (HU) Kees Woutersen; cranes are not at Yesa reservoir (Z) at dawn, Javier López; 500 over Huesca, Paco Quesada; 900 over Cariñena (Z) Esther Charles; 250 over Ricla (Z) Javier Train; 31 over Agüero (HU) Juan C. Albero; 30 circling at Quintana de la Serena (BA) Agustín Quintana; 96 over Orellana la Vieja (BA) Manuel Gómez; 100+120 over Grañen (HU) Silvia Duque; 80 at El Cañizar lagoon (TE) Marisol Martín; 200 over Larralde reservoir (Z) Elena Cantalapiedra; 120 over Loarre Castle (HU) and 1,000 over Los Mallos de Riglos (HU) Mary Hooper, Michael Hooper; 28 over Aibar (NA) Moisés Zozaya; 3 over Portalet (HU) and 500 over Sallent del Gállego (HU) Marce Martín; 27+170+160+450+80+90+400 over Rueda de Jalón (Z) and 228 over Lumpiaque (Z) Eduardo Gil; 2,000 at Sotonera reservoir (HU) Esther Yera; 60 at Vuelta la Arena, Doñana National Park (SE) Vicent Esteller; 54 over Sureste natural park, Ciempozuelos (M) Manuel García; 60 over Calera y Chozas (TO) Gustavo A. Hernández; 38 over Cornalvo natural park, Mérida (BA) Elvira del Viejo; 100 roost at Torrubia pool (CU) Marina; 19 at Manjavacas lagoon (CU) Javier Txantxangorri.

-07/03/24: 270 leave from Sotonera reservoir (HU) Kees Woutersen; 20 at Castellò d'Empuries (GI) Àlex Fonollosa; 65 at Tablas de Daimiel National Park (CR) Nick D' Agorne; 3 at the River Antas estuary (AL) Jorge J. Rueda; 1 at Aldeaseca (AV) Víctor Coello; 38 over Garcimuñoz Castle (CU) and 6 over Olivares de Júcar (CU) Nelson

Mesonero; 5 over Añover de Tajo (M) Carlos Talabante; 40 over Muel (Z) Javier; 17 over Ansó (HU) Juan C. Albero; no migration from Gallocanta lagoon (Z/TE) where 600 arrived on migration, 941 roosting, Francisco J. Sampietro (S.A.R.G.A); 300 at Sotonera reservoir (HU) Esther Yera.

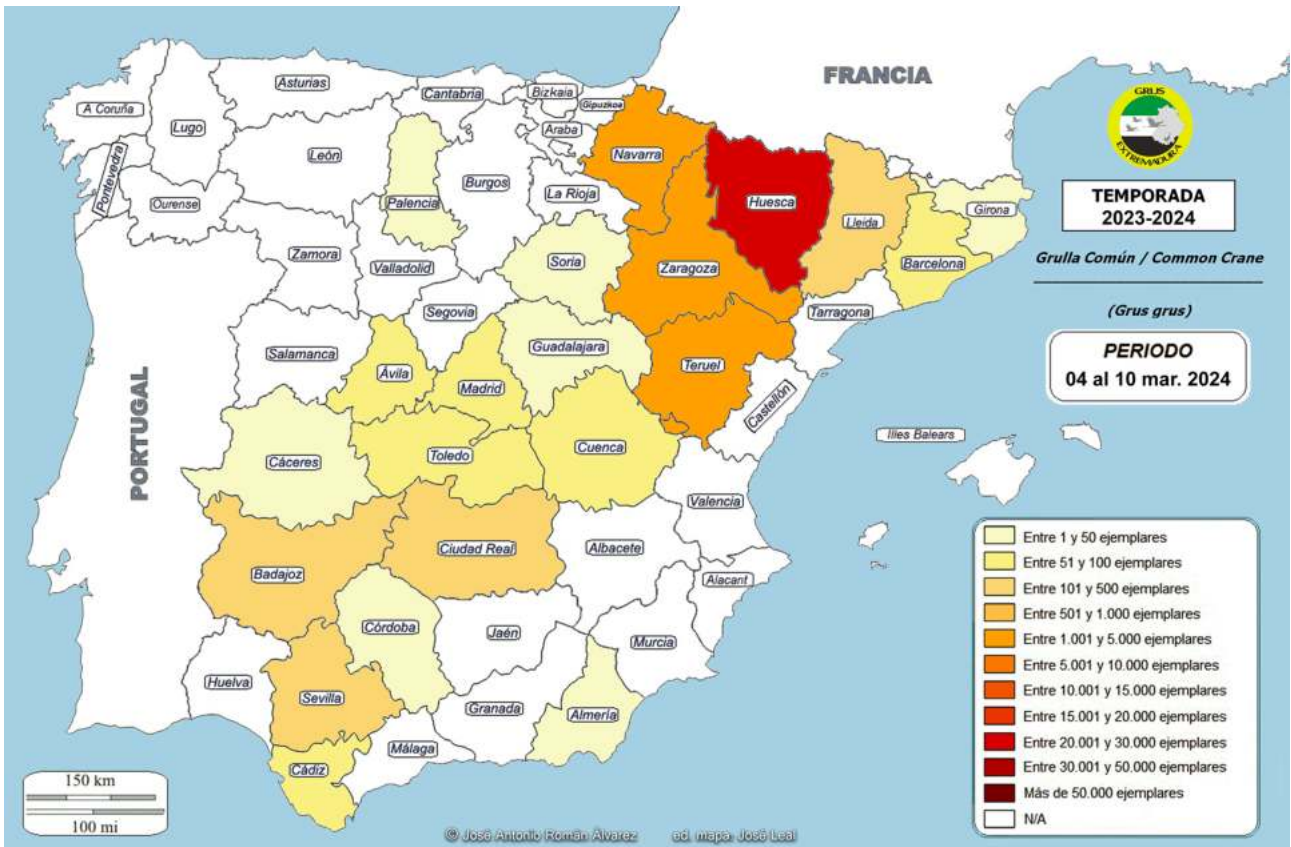


Image nº: 139: Flock over Los Mallos de Riglos (HU). Photo: Michael Hooper

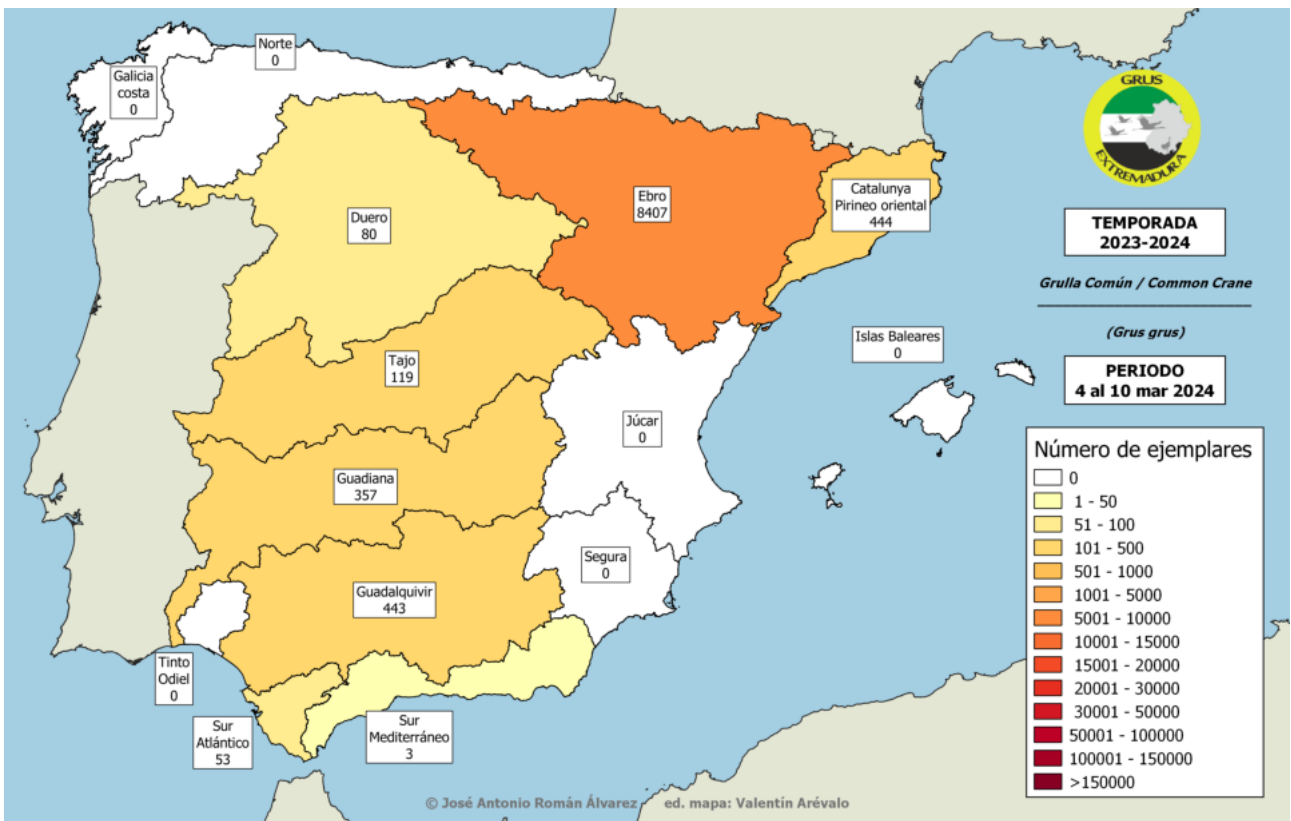
-08/03/24: 250 over Sevilla, David Muñoz; 258 circling at Capdesaso (HU), where 400 roost in the rice fields, Eduardo Gracia; 60 over Cubelles (B) Diego Callau; 92 on the FAO wall, Doñana National Park (SE) Jorge Monje; 67 over Dehesa de Abajo (SE) Manuel Bárcena; 12 at La Laja reservoir, Medina de las Torres (BA) Julen Santa Cristina; 55 over Espartinas (SE) José L. Arroyo; 224 at Sotonera reservoir (HU) Paco Quesada.

-09/03/24: 200 at Gallocanta lagoon (Z/TE) and 1,000 on Caminreal plain (TE) which go to roost at Gallocanta lagoon (Z/TE), Antonio Torrijo; 23 at Pitillas lagoon (NA) Aitor Urrutia; 25 over Sort (LL) Assumpta Gelats, Agustí López; 190 at Sotonera reservoir (HU) Juan C. Albero; 2 at Pitillas lagoon (NA) Jorge Nubla; 4 at Cubillo lagoon, Cubo de Hogueras (SO) Jesús Ruíz, Juan L. Hernández.

-10/03/24: 2 juveniles at El Campazo lagoon, La Aldea del Obispo (CC) Neil Renwick; 120 at El Cañizar lagoon (TE) Felipe Rosado.



Map nº 50: Migration by provinces between March 4 to 10



Map nº 51: Migration by catchment areas between March 4 to 10

Migration is practically finished and only a few flocks are observed in a few wintering localities, as well as little migration.

-11/03/24: 65 over Vic (B) Martí Franch; 209 circling at Alcañiz salt flats (TE) Esther Yera; 229 over Castellò de Farfanya (LL) Quim Minoves; 300 in rice fields at Santa Lecina (HU) Alberto Gasquet; 100 over Charo (HU) Ferrán Guardia; 55 at Pinsoro (Z) Detehevery Joël; 175 over Teruel and 24 over San Blas (TE) José A. Beneito; 51 at El Cañizar lagoon (TE) Susana Lois.

-12/03/24: 750 feeding at Monreal del Campo (TE) Antonio Torrijo; 51 at Alboré reservoir (HU) Pablo Vallés, Cristina Ruíz; 280 circling over Berrueco (Z) María Berna; 2 juveniles over the River Aragón at Artieda (Z) Alberto; 38 circling at Venta de las Ballerías (HU) Eduardo Gracia; 60 over Alcañiz (TE) Miguel A. Pardo; 28 over Galacho de la Alfranca (Z) José M. Sánchez; 6 at Lechago reservoir (TE) Antonio Torrijo; 1 at Hinojos (H) Gween van Boven; 1 over Zaragoza, Ignacio Sánchez; 9 over Canget de Sial (LL) Nuria Valverdú; 38 over Agramunt (LL) Carles Oliver; 127 going from Capdesaso (HU) towards Sotonera reservoir, and 170 roost in these rice fields, Eduardo Gracia; 3 at Palancoso reservoir, Rosalejo (CC) Vicente Risco; 69 over Huesca, Maarten Platteuw; 60 over Madrid, Christophe Pontegnie; 52 over Villanueva de Huerva (Z) Samuel Aunió; 50 over Llançá (GI) Mónica Bruses; 80 over Meco (M) Lorenzo Rodríguez; 10 over the Autonomous University of Madrid, Víctor Escribano.

-13/03/24: 305 leave from Sotonera reservoir (HU) Kees Woutersen; 2 at Aiguamolls de l'Empordà (GI) Raúl Calderón; 700 at dawn at Gallocanta lagoon (TE/Z) and at least 300 leave on migration, Francisco J. Sampietro (S.A.R.G.A.); 100 in rice fields at Capdesaso (HU) Eduardo Gracia; 13 over Cariñena (Z) Héctor Bintanel; 7 at Sotonera reservoir (HU) José M. Canudo; 4 at Loza reservoir (NA) Alberto Rodríguez; 60 over Honrubia (CU) Marina.

-14/03/24: 42 leave from Sotonera reservoir (HU) Kees Woutersen; 23 over the Polytechnic School, Huesca, Rajen Ayerra; 10 at La Albuera lagoon (BA) David Alonso; 12 at Los Valverde pool, Villanueva de la Serena (BA) Antonio Mendoza; 6 at La Nava lagoon (P) Josep Manchado; 1 at La Loteta reservoir (Z) Javier Train; 42 over Pitillas lagoon (NA) Jesús M. Lekuona; 62 over Puebla de Beleña (GU) Hans Cartigny; 40 over Vila-rodona (T) Israel Estopà; 1 over Sevilla, Julio Rabadán; 29 over Elorrio (BI) Aitor Zabala; 125 over El Vendrell (T) Ramón Ruíz; 360 over Caminreal (TE) to roost at Gallocanta lagoon, Antonio Torrijo.

-15/03/24: 20 over Almendralejo (BA) Francisco Macías; 120 going from feeding fields to Gallocanta lagoon (TE) María Berna; 30 at La Janda (CA) Birgen Haest; 11 over Madrigalejo (CC) Paul van Es; 157 over Honrubia (CU) Blanca López; 52 at Sotonera reservoir (HU) José M Canudo, Jorge Lardiés; 65 over El Pardo (M) Jannick Forquignon; 3 at La Mueda reservoir (NA) Javi Sola; 7 at Pitillas lagoon (NA) Diego Villanua; 98 over Moheda Alta, Navalvillar de Pela (BA) Vicente Risco; 2 over Tarifa (CA) Luisa Sánchez; 1 at El Hoyo lagoon, El Oso (AV) Arón Blázquez, Luis J. Martín, Miguel Martín .

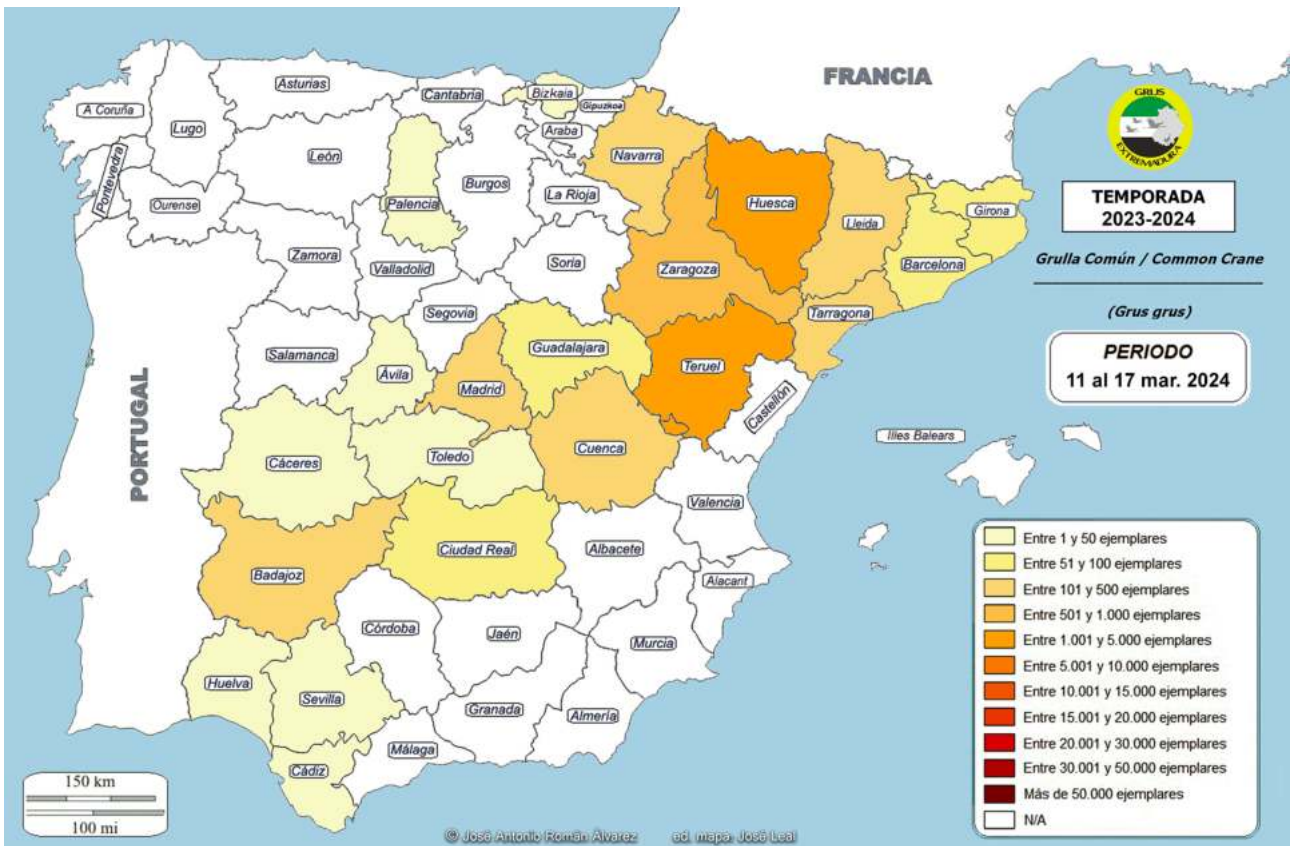
16/03/24: 1 at Loza reservoir (NA) Alberto Rodríguez, Gaspar Zaldua; 33 over Subiza (NA) Peina (DALMA); 9 over Barásoain (NA) Héctor Díez; 11 at Sangarrén (HU) María CaApa; 1 over Puebla de Don Rodrigo (CR) Jorge Sereno; 14 over Almodévar reservoir (HU) Jorge Lardiés; 56 over the Sierra de Alarcos (CR) Jorge Sereno; 11 at Lugar Nuevo pool, Peraleda de la Mata (CC) Blas Molina.

The Lithuanian cranes arrive at their destination after covering 3,409km in 22 days, of which 12 were spent on the ground and 10 flying.

-17/03/24: 114 over Castuera (BA) Manuel Calderón; 18 over Daganzo de Arriba (M) María Valladares, Ignacio A. Rodríguez; 14 over escarpments at Pola (Z) Diego Uche; 70 at Dos Reinos lagoon (NA) Haritz Sarasa; 8 over Valdabrá (HU) María CaApa; 88 Moheda Alta, Navalvillar de Pela (BA) Martin Kelsey; 8 at La Nava lagoon (P) Javier Martínez.



Image nº 140: Cranes over Elorrio (BI). Photo: Aitor Zabala



Map nº 52: Provincial migration and distribution between 11 and 17 March.

The last cranes, the majority being juveniles, are seen feeding and resting in some areas and lagoons of the interior or migrating northwards in small flocks.

-18/03/24: 2 at La Janda (CA) Laura Rollán.

-19/03/24: 3 at Fuente de Piedra (MA) Dereck Etherton; 45 over Sanlúcar la Mayor (SE) Pim Edelaar; 103 in rice fields at Capdesaso (HU) Eduardo Gracia; 65 over Logroño (LR) Javier Nalda; 40 at Dehesa de Abajo (SE) Marten Christensen; 60 over Benacazón (SE) J. Daniel García; 45 over Sevilla, José Virto; 36 at Las Navas reservoir (HU) Juan C. Albero; 30 over Hinojos (H) Ka Kruse; 500 over Barajas de Melo (CU) Rubén.

-20/03/24: 3 over Andújar (J) Jurriën Deijk; 248 going from Gallocanta lagoon (TE) to Caminreal (TE), 2 at Santed reservoir (Z), 5 at Aguanares, Gallocanta (Z) and 4 at La Reguera (Z) Antonio Torrijo; 1 at Tébar (CU) Antonio; 2 at La Janda (CA) Laura Rollán; 4 at Herrera lagoon (SO) Adrián García.

-21/03/24: 53 at Cañizar lagoon (TE) Felipe Rosado; 220 at Caminreal (TE) Antonio Torrijo; 40 at Sotonera reservoir (HU) Esther Yera; 2 over Cádiz, C. Yasudo; 9 over Medinilla de la Dehesa (BU) Diego Santamaría; 3 at Cabeza del Buey (BA) Juan J. Ruíz; 111 over Rueda de Jalón (Z) Eduardo Gil; 1 in Santoña marshes (CT) Ben Johnson.

-22/03/24: 22 roost at Valdabra reservoir (HU) Eduardo Gracia; 130 over Urrea de Jalón (Z) Eduardo Gil; 2 at Monteagudo de las Vicarías reservoir (SO) Adrián Suárez.

-23/03/24: 5 at Zarza de Granadilla (CC) César Clemente; 15 over Pitillas lagoon (NA) Xavi Elizondo; 6 over La Selva del Camp (T) Adrià Roig; 50 over Alcobendas (M) Miguel A. Mora.

-24/03/24: 4 in Doñana National Park (SE) Fernando E. Navarrete; 1 over La Cebadilla (GR) Robert Hinckley; 3 at Santed reservoir (Z) Antonio Torrijo, Felipe Rosado; 6 over Ollerías (AR) Andrea Martínez, José R. Martínez; 10 at El Cubillo reservoir (SO) Iker Barriales; 1 at Sotonera reservoir (HU) Esther Yera, Juan L. Muñoz; 2 over Martorell (B) Anabel Valledor; 10 at Valdabra reservoir (HU) José M. Canudo.

-25/03/24: 2 at Buendía reservoir (GU); 19 over Valdetorres de Jarama (M) Rosa González.



Image nº 141: Cranes over Ollerías (AR). Photo: José R. Martínez

-26/03/24: 2 at Zorita de la Frontera (SA) Víctor Coello; 31 over Madrid, Jorge García; 57 at Caminreal (TE) Adrián Sánchez, Gonzalo Peña; 2 at Pitillas lagoon (NA) Rajen Ayerra; 12 over Alcublas (V) Yanina Maggiotto.

A young Estonian crane, called “Kanepi”, which spent the winter in the Los Pedroches district of Córdoba province and spent ten days in the dehesas at Casas de Don Pedro (BA), set off on migration at 08:49h, arriving at Gallocanta lagoon (TE/Z) at 17:43h, after covering 402km.

-27/03/24: “Kanepi” left at 11:34h and headed straight for the Pyrenees, crossing the border east of Andorra and crossing France, flying at night. At 04:45h he was near Fenay, eastern France, having covered 940km.

1 at Ivars d’Urgell lagoon (LL) Joan Rodríguez; 11 in the Llobregat delta (B) Brandon Stidum, Caleb Villar; 2 at La Mueda reservoir (NA) Javi Sola; 6 at Sotoner reservoir (HU) Diego Tomey; 3 over Los Mallos de Riglos (HU) Susanna Graf.

-28/03/24: 103 in Jiloca Valley, Caminreal (TE) Antonio Torrijo; 12 at Montmesa (HU) Irene Marina; 25 in rice fields at Capdesaso (HU) Eduardo Gracia; 1 at Villamesías (CC) José A. Campos; 2 at Castrejón reservoir (TO) Javier Nicolau; 123 at Gallocanta lagoon (Z) Antonio Torrijo; 10 at Pitillas lagoon (NA) Jorge Nubla; 13 at Sotoner reservoir (HU) Esther Yera, Francisco Quesada.

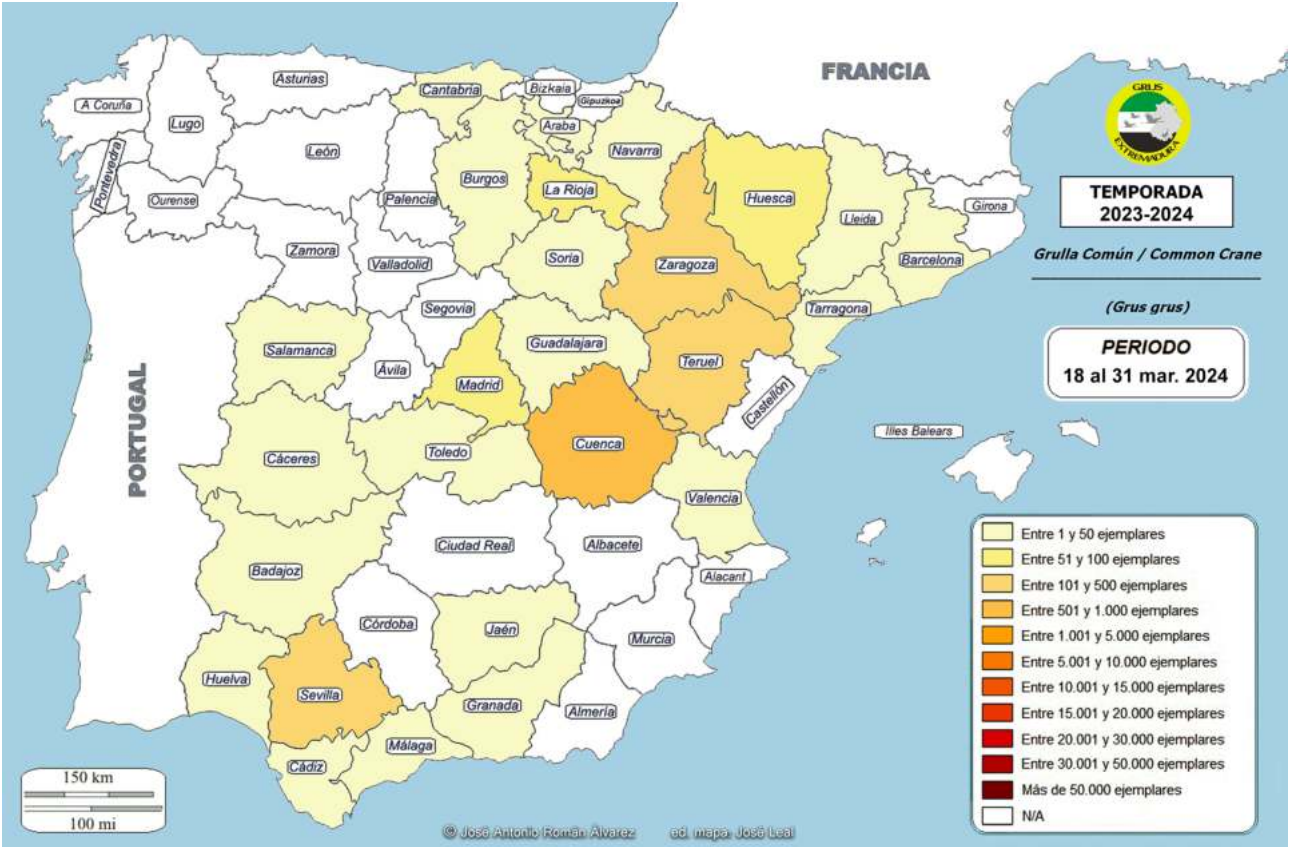
“Kanepi” is still travelling at 12:00h, having covered 1,370km without a rest since leaving Gallocanta, after 24.5 hours in flight.



Map nº 53: Route taken by “Kanepi” from Extremadura and across France. Info: Ivar Ojaste



Image nº 142: Cranes on La Serena near Cabeza del Buey (BA). Photo: Juan J. Ruiz Moyano



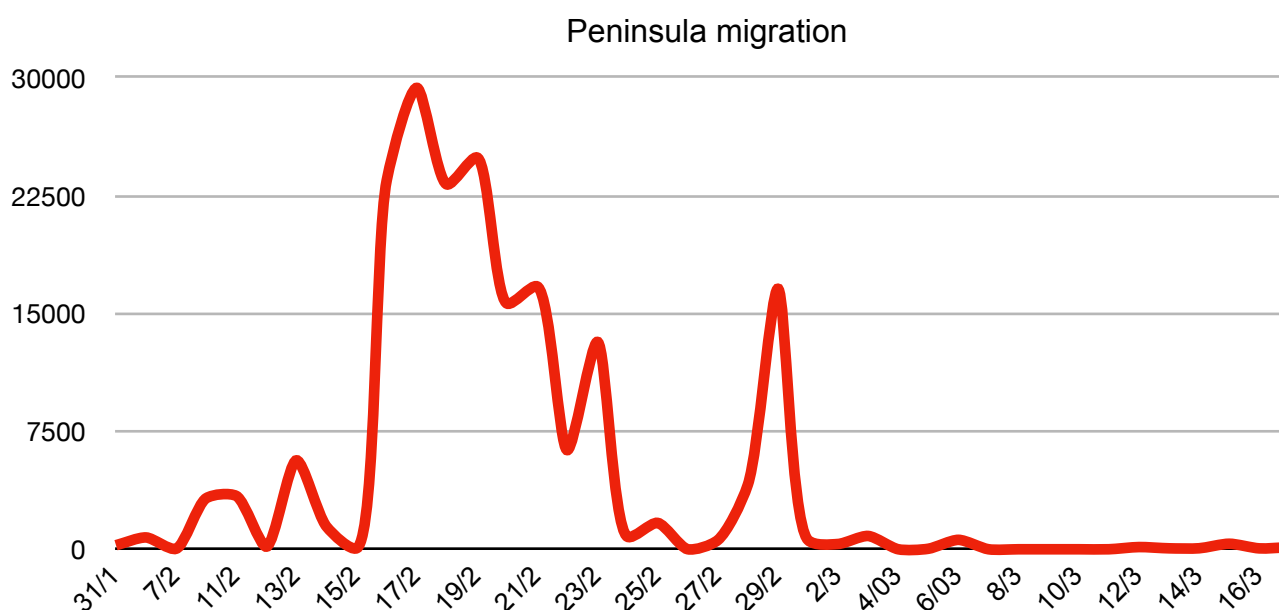
Map nº 54: Cranes in Spain between March 18 to 31

The pre-nuptial migration was short and rapid, only delayed through the Pyrenees at the end of February and early days of March due to a series of weather fronts which produced unfavourable winds, rain and snow in the pre-Pyrenees and the rest of Aragón.

The weather bonanza, with sunny days and favourable winds, allowed the cranes to begin migration *en masse* on 16 February; it increased as the days passed, reaching the migratory peak on the 17th. The wintering areas gradually emptied, initially those most dependent on irrigated crops, while the dehesas were the last areas to be abandoned, as well as those occupied by cranes furthest south, such as in Andalucía.

These cranes, the majority from Baltic countries (principally Finland), are in less of a hurry to arrive in their breeding areas, as the conditions there are not favourable until well into April. A notable record was the presence of 14 cranes on 3 March in the Moroccan location of Sous Massa (Booker & Booker), which is the most southerly wintering location for western European cranes, situated some 775km from the Iberian Peninsula.

It is complicated to quantify the migratory journey in mainland Spain, as they cross in a wide front and flocks overlap, but despite this we can offer a view of how it happened in the graphic below. The first flocks were observed in the first week of February, and between the 16th and 19th more than half set off, some 100,000 birds, maintaining the rhythm until the 23rd, with a final migratory peak on 29 February, which represented the last significant movement of the season.



Graphic n° 34: Daily pre-nuptial migration in the peninsula between 31/01 and 17/03

Thanks to tracking cranes carrying GPS/GSM devices, such as a Lithuanian pair, we know in detail their journey from leaving the dehesas in the south-west, where they spent the winter, until they left the peninsula.

Their journey began on 23 February at 11:00h; a flock of 350 was seen in the first few minutes, flying over the dehesas of Puebla de Obando (BA) by Juan de Dios León – they flew east-north-eastwards, flying over La Aldea del Obispo (CC) to the River Almonte and continuing to the south of Jaraicejo, going around the northern end of the Villuercas mountain range (Mesas de Ibor, 13:40 h) and leaving Cáceres province to the south of

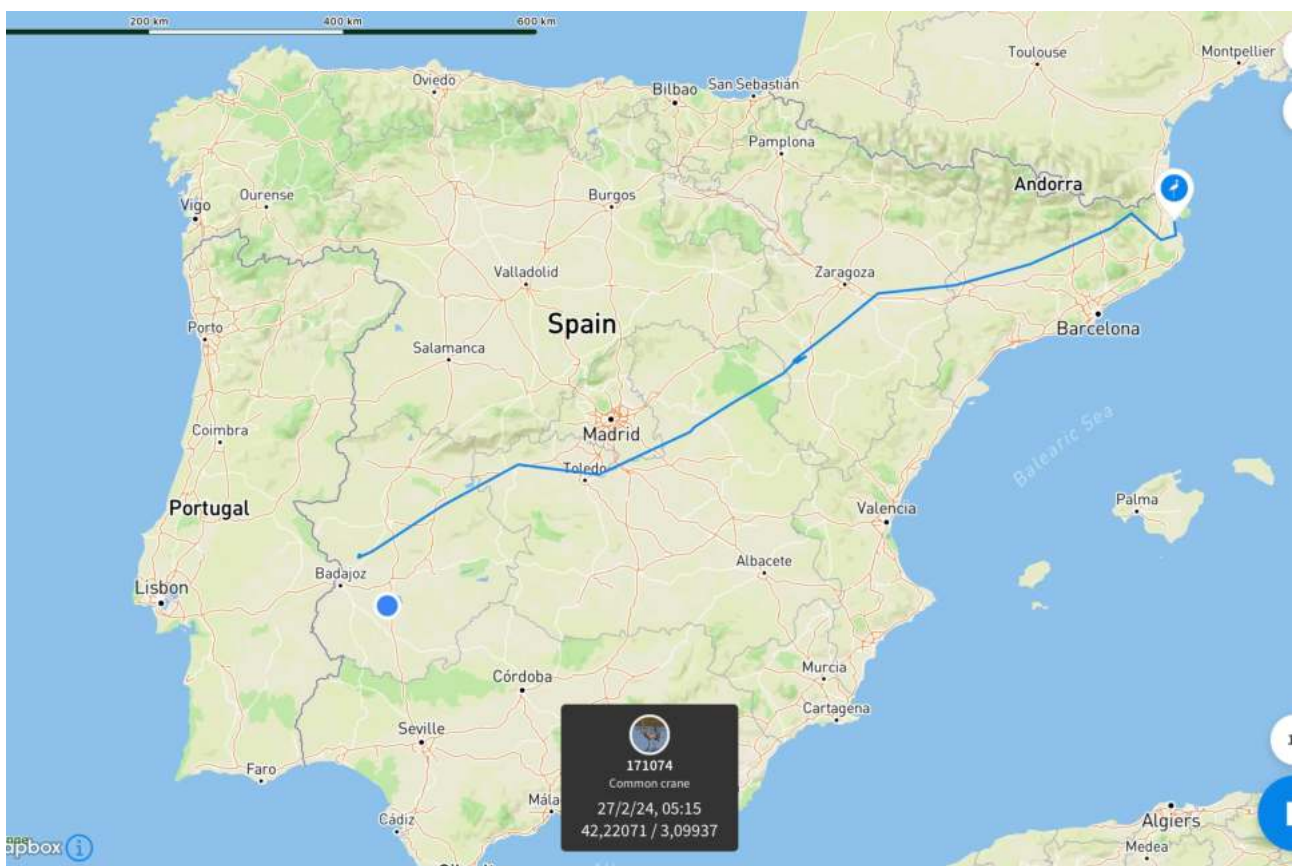
Valdecañas Reservoir. They continued across Toledo, passing Torrijos (15:00h), where they turned to the north-east to reach Buendía Reservoir (CU) at Villalba del Rey at 17:04h. They travelled 375.8km in 6 hours, at an average speed of 62.5km/h.

They set off north-eastwards at 10:45h on the 24th, flying over the Alto Tajo Natural Park, and arriving at Gallocanta Lagoon, near Bello, at 14:30h, after covering 126km in 3 hours 45 minutes, at an average of 33.6km/h.

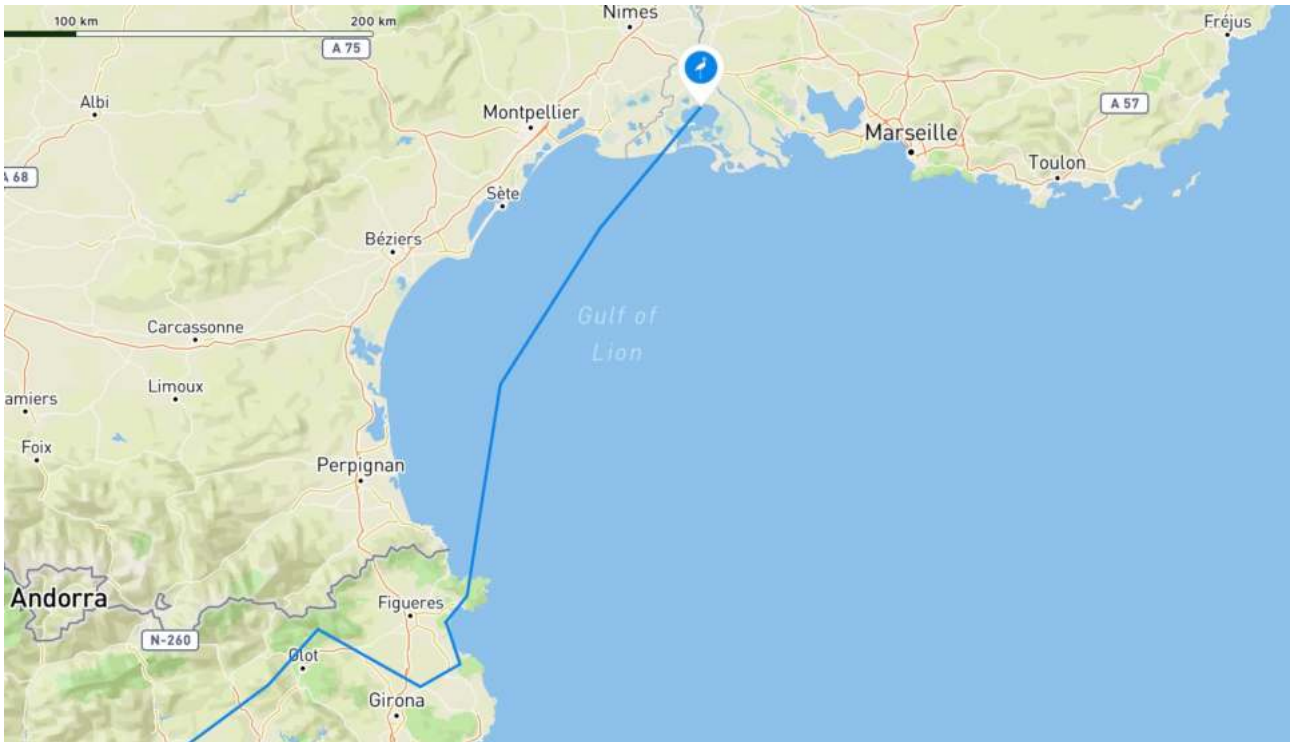
They stayed at the lagoon because of the inconvenient wind, and managed to get away on the 26th at 11:15h, heading north-east to Fuentes de Ebro (Z), where they changed direction to east-north-east to fly to the north of Lleida at 15:00h. They headed towards the Pyrenees at La Alta Garrotxa, reaching Sant Llaume de Lierca (LL), where they changed direction to head south-east to Verges (GI) - 19:29h – and turned again to the north to arrive at Aiguamolls de L'Empordá at 21:15h, having travelled 445km in 9 hours of flight, at an average speed of 49.4km/h.

During these four days spent crossing Spain (with a stop at Gallocanta Lagoon) they travelled 946.6km in 18 hours and 15 minutes, at an average of 52.6km/h.

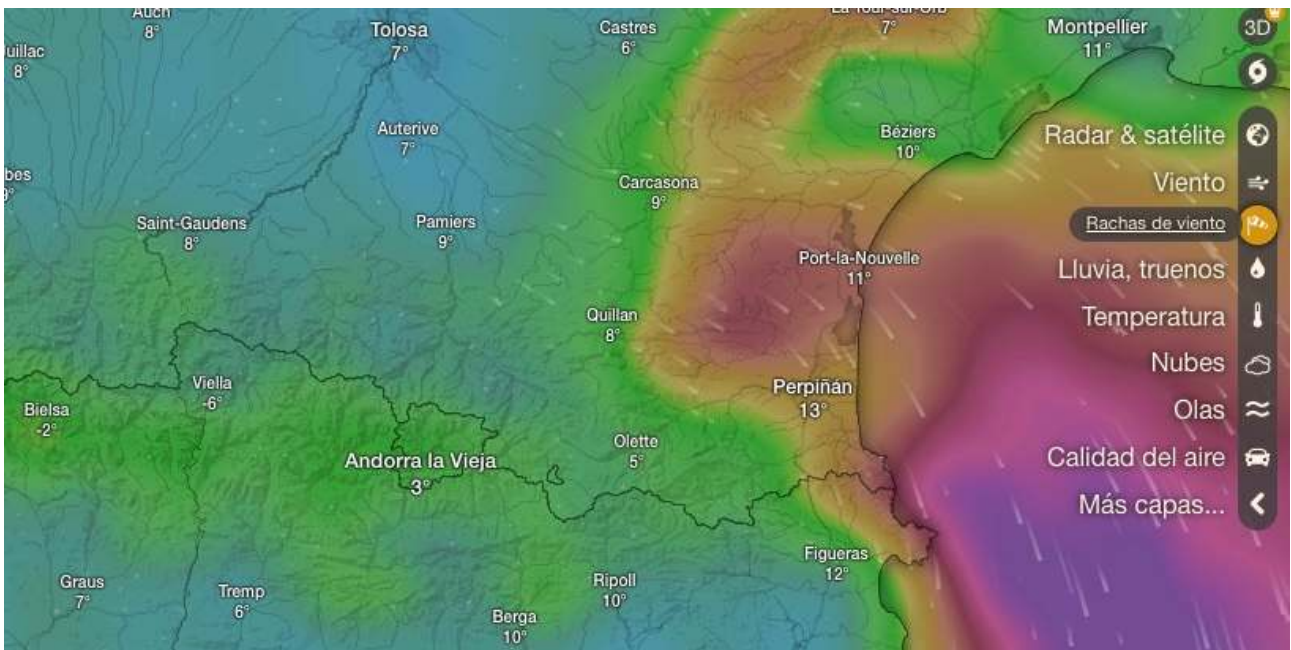
They stayed at Aiguamolls until the 29th due to the strong north wind. They took off that day at 10:00h and went out to sea over the Gulf of León from Cape Ras at Llançà (GI) as part of a flock of 150 (Gérard Defontaine), with a strong northerly wind which subsided and became favourable, reaching The Camargue (FR) at 15:00h, having flown 200km over the sea, at an average of 40km/h.



Map n° 54: Route followed by the pair of Lithuanian cranes on their journey across Spain. Source: Animal Tracker



Map nº 55 Flight across the Gulf of León on 29 February. Source: Animal Tracker



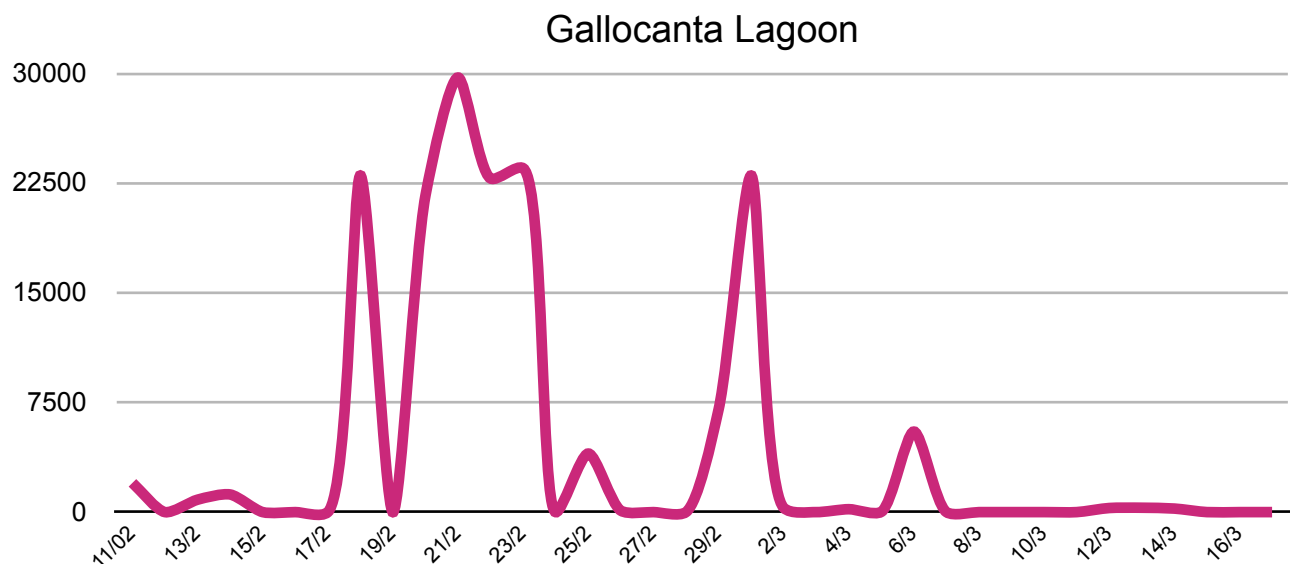
Map nº 56: Wind strength an hour after their departure. Fortunately, this decreased in intensity and turned north an hour later, which aided their arrival on the French coast, but if it had kept up the cranes could have been diverted, in all probability, to Corsica. Info: Kees Woutersen (Grupo Ornitológico Oscense, GOO). Source: Windy

At Gallocanta Lagoon, a reference point for pre-nuptial migration where 90% of the Iberian and some north African cranes pass through, the migration movement was similar to that of the peninsula, but on different days, when the first major wave arrived on the 18th, reaching a peak on 21 February, when 29,700 cranes left the lagoon.

It should be noted that many of the cranes that arrived between the 19th and 23rd continued their journey without stopping at this location, and as they were not counted, are not reflected in the following graphic.

The spring migration is more sustained and continuous than in autumn, and doesn't produce waves separated by several days, but it progresses until reaching its peak and then it is nourished by new migrants arriving, which may or may not migrate, depending on the strength and direction of the wind. When the wind is from the north or north-east they stay on the ground until there is a favourable window to allow them to leave. As can be seen, there was a stoppage from 25th to 28th, and the last departure didn't happen until the 29th, involving 29,000 cranes.

165,378 birds were counted between 11 February and 17 March.

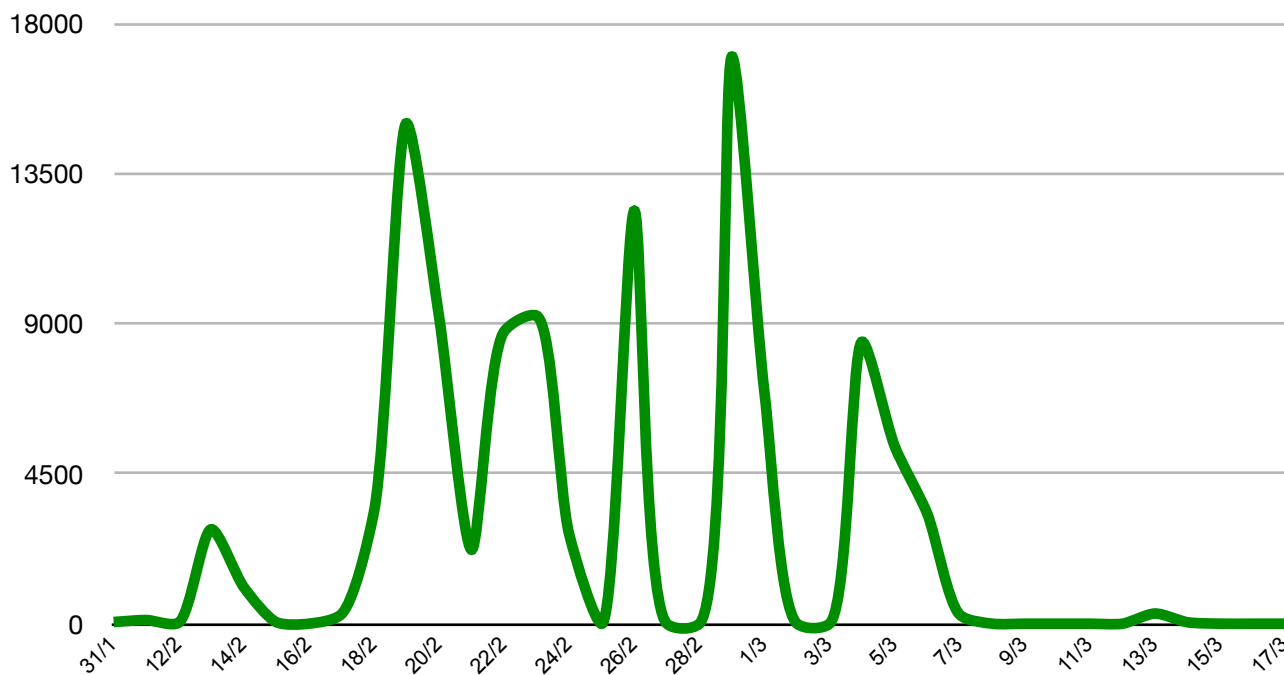


Graphic nº 35: Daily pre-nuptial migration at Gallocanta Lagoon in 2024, between 11/02 and 17/03.

The situation was very different at Sotonera Reservoir (HU), primarily due to its location, as it is situated in the pre-Pyrenees, being the last staging post before leaving Spain and going over this imposing mountain range, and also because some of the cranes which arrived after 18 February continued their journey and were not always detected.

For all this, the graphic is very different to that seen around Gallocanta Lagoon, producing peaks on different days (those that set off on migration each day are shown), due to the weather conditions, such as the wind, rain and snow which detained many cranes for several days, particularly in the last week of February. Not all crossed this province, several thousand went to the west and migrated from Navarra, and other flocks went through Catalonia, crossing the Pyrenees through Lleida or even leaving over the Mediterranean across the Gulf of León (as the Lithuanian cranes did). The principal peak was on 29 February, when weather conditions allowed a massive departure. In total, a minimum of 108,905 cranes were counted between 31 January and 17 March, as many cranes did not stop at this reservoir. However, 147,157 individuals were counted in Huesca province.

Sotonera reservoir

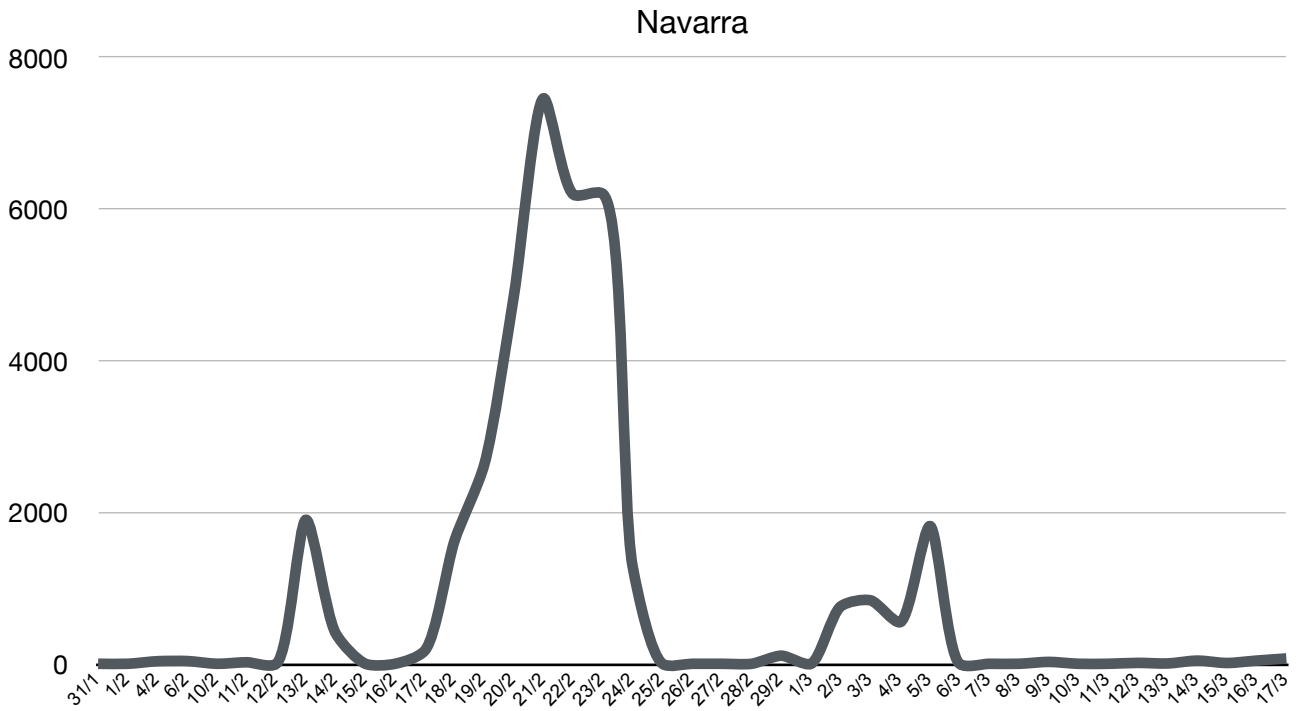


Graphic n° 36: Daily pre-nuptial migration at Sotonera Reservoir (HU) between 31/01 and 17/03



Image n°: Cranes at Sotonera Reservoir (HU). Photo: Pablo Vallés

In Navarra, the migration was similar to Gallocanta and Sotonera, the majority of birds that landed at the latter reservoir crossed this Autonomous Community, and was less than those that went directly from Gallocanta. Two small waves were produced, on 14/02 and 5/03, with the biggest one on 21 February. 72% crossed this community between 19 and 23 February, of the total of 37,964 cranes censused from 4 February to 17 March.



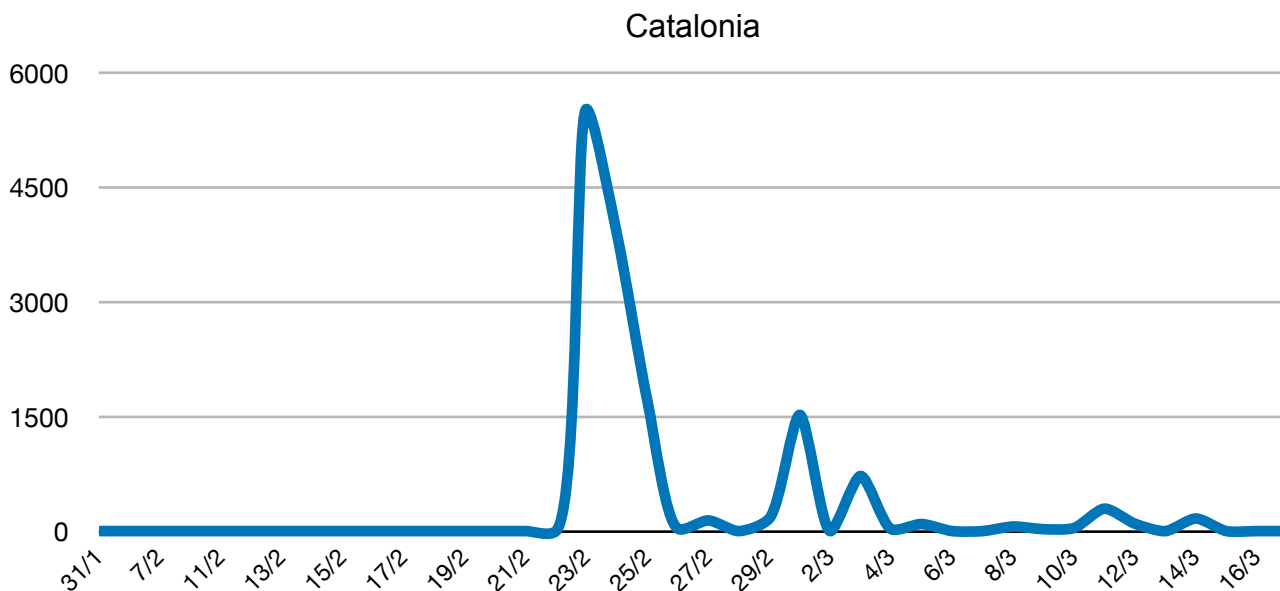
Graphic n° 36: Daily migration through Navarra between 31/01 and 17/03

Migration was anecdotal in the Basque Country, as only 372 cranes were observed in total, on three different days, two from Gipuzkoa province and one from Bizkaia province. In all probability, these birds must have come from Castile-y-León via the historic Castilian route.

There were no migration movements in Catalonia until 23 February, when several thousand came through, probably from Sotonera Reservoir, deflected by the north-west wind. 12,000 cranes passed through this autonomous community in two days. When they reached The Camargue on the Rhône Estuary, they took the local wintering birds (>20,000) with them, producing an intense migration wave to the north of France (Lac du Der) and also eastwards to northern Italy.

This continued in the following days, at a much lower level, in early March, although there were also delays because of the north wind in the mountains and the Gulf of León, which detained them on the ground, as was the case with the Lithuanian cranes.

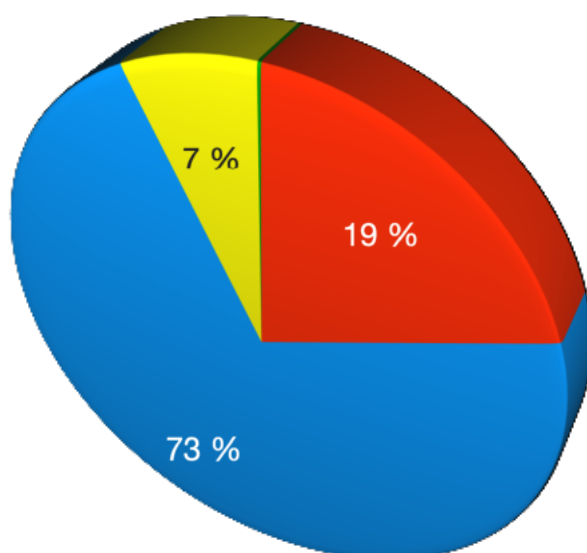
They continued to pass on successive days, and in the first few days of March over 2,000 birds. In total, 15,402 cranes were counted.



Graphic n° 37: Daily pre-nuptial migration through Catalonia between 22 February and 15 March

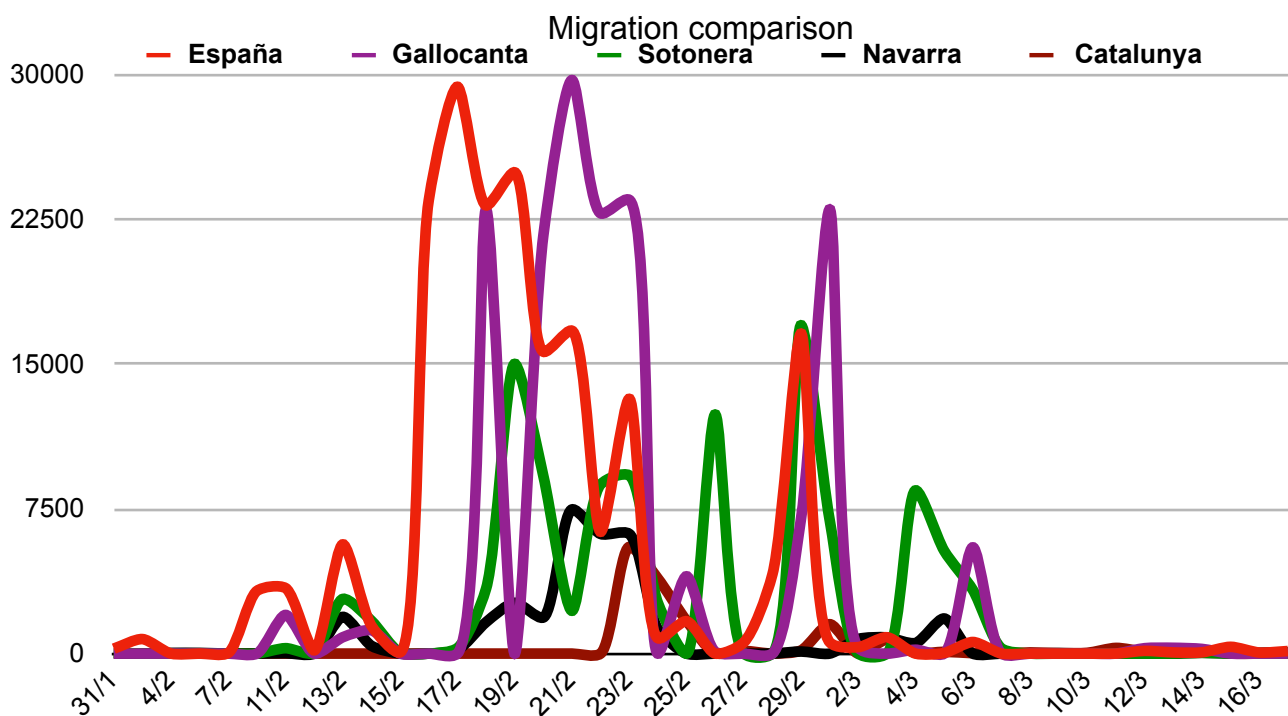
The total censused between 31 January and 15 March on passage through the Pyrenees and the Gulf of León was 200,943. The majority crossed the Pyrenees from Huesca province, with 147,157 (73%), followed by Navarra with 37,964 (19%), Catalonia with 15,402 (7.6%), the Basque Country with 372 (0.18%) and 39 (0.01%) through the east, and only 9 birds in the Balearic Islands.

PRENUPTIAL MIGRATION



● EUSKADI ● NAVARRA ● HUESCA ● CATALUNYA ● LEVANTE ● BALEAR

Graphic n° 38: Migration percentages by provinces and Autonomous Communities



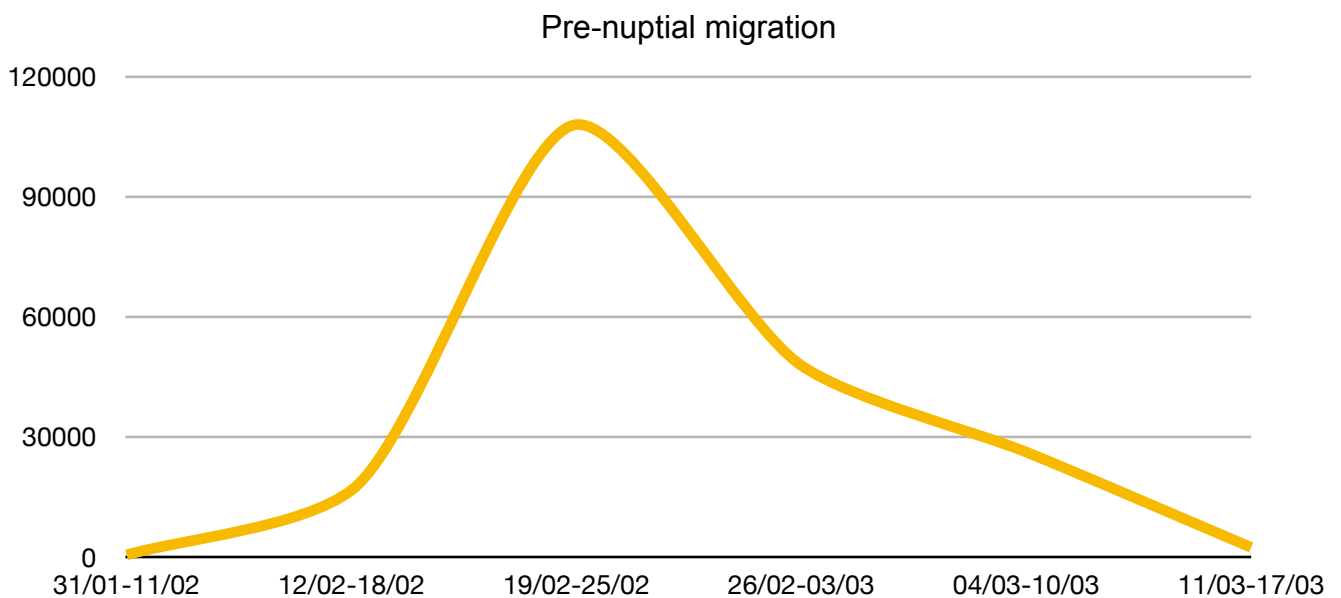
Graphic nº 39: Migration comparison between Spain, Navarra, Gallocanta Lagoon, Sotonera Reservoir and Catalonia

Between 31 January and 11 February only 424 cranes were seen on migration; which began discreetly in the following week, reaching a maximum in the week 19-25 February, when 107,826 cranes were counted. It was still very active the following week, with 47,706 birds, and even into the first week of March when 26,092 were counted, finishing in the second week with 2,299.

PRE-NUPTIAL MIGRATION 2024

	31/01-11/02	12/02-18/02	19/02-25/02	26/02-03/03	04/03-10/03	11/03-17/03	TOTAL	%
BASQUE COUNTRY	0	13	330	0	0	29	372	0.16
NAVARRA	92	3321	28629	1986	3767	169	37964	18.4
HUESCA	329	13144	67350	43159	21881	1294	147157	74.3
CATALONIA	0	106	11517	2528	444	807	15402	7.07
EAST	3	3	0	33	0	0	39	0.01
BALEARICS	0	0	0	0	0	0	9	0
TOTAL	424	16587	107826	47706	26092	2299	200943	

Table nº 23: Results of the weekly migration counts



Graphic n° 40: Evolution of the pre-nuptial migration by weeks from 31/01 to 17/03

By water catchment areas, the highest count was achieved in the Ebro, with 209,776 (49%) cranes, followed by the Tajo with 104,998 (24%), Guadiana with 86,900(20%), Catalonia with 14,595 (3.3%), Duero with 12,476 (2.9%), Guadalquivir with 747 (0.1%), South Atlantic with 595 (0.1%), North with 372 (0.08%), South Mediterranean with 358 (0.08%), Tinto with 250 (0.05%), Júcar with 36, Segura with 25 and none in the Balearic.

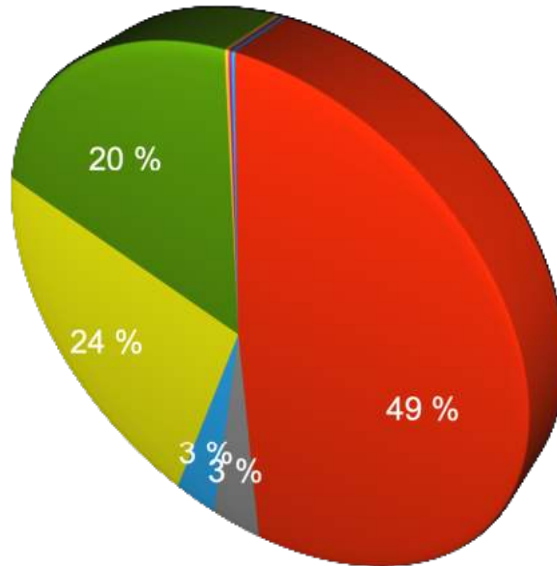
PRE-NUPTIAL MIGRATION BY WATER CATCHMENT AREA 2024

	31/01-11/02	12/02-18/02	19/02-25/02	26/02-03/03	04/03-10/03	11/03-17/03
NORTH	0	13	330	0	0	29
EBRO	5762	48583	103214	43810	8407	3332
CATALONIA	0	106	11517	2528	444	807
JÚCAR	3	0	0	33	0	0
SEGURA	0	3	22	0	0	0
BALEARIC	0	0	0	0	0	0
DUERO	71	6074	5757	497	76	9
TAJO	1686	41273	60984	936	119	317
GUADIANA	750	41515	36287	7991	357	471
GUADALQUIVIR	0	0	320	117	310	1
TINTO	0	100	150	0	0	1
SOUTH ATLANTIC	0	35	319	188	53	32
SOUTH MEDITERRANEAN	0	0	350	8	0	0

Table n° 24: Weekly migratory movements by water catchment area

Evidently, the figures collected by water catchment areas do not match the total of birds registered, being clearly higher. This is due to overlapping flocks, which are duplicated by being counted at different times in distinct localities and/or catchment areas during their migratory journey across the Iberian Peninsula.

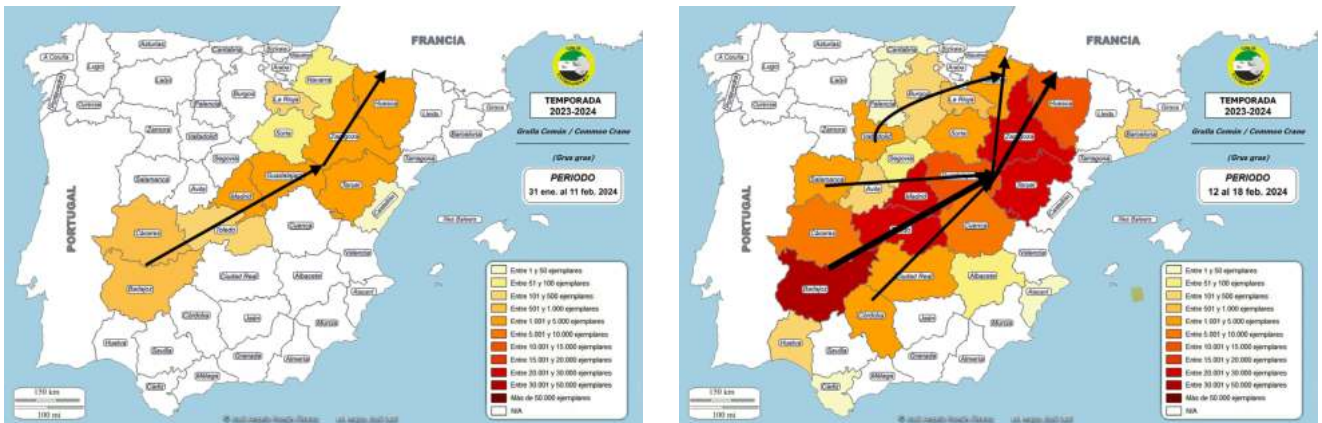
CATCHMENT AREAS



- NORTE
- EBRO
- CATALUNYA
- JÚCAR
- SEGURA
- BALEAR
- DUERO
- TAJO
- GUADIANA
- GUADALQUIVIR
- TINTO
- SUR ATLÁNTICO
- SUR MEDITERRÁNEO

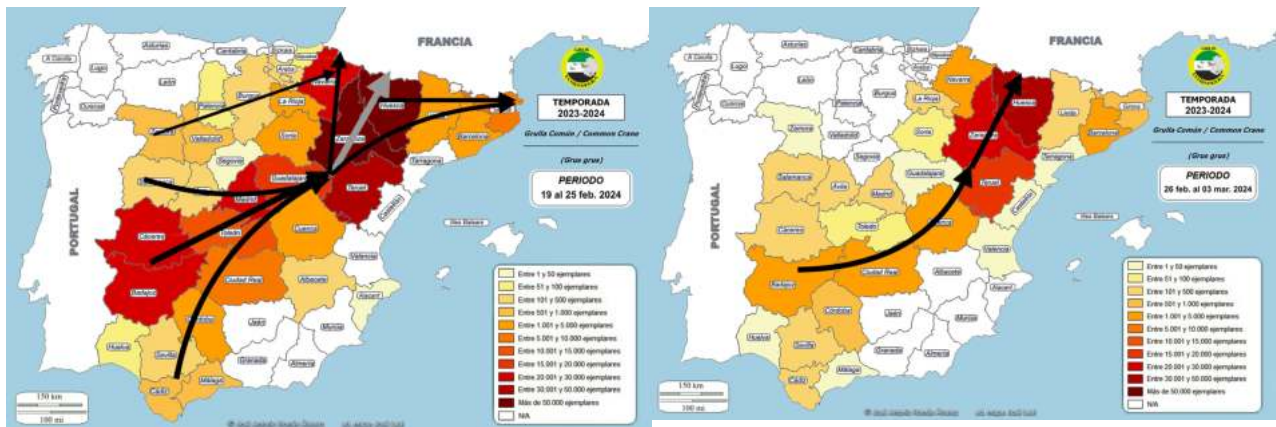
Graphic nº 41: Distribution of the migration by water catchment areas

Between 31 January and 11 February, migration passed directly from Extremadura to Gallocanta and Sotonera across Toledo, Madrid and Guadalajara, as shown in the map below. This pattern changed in the following week when migration began to increase and included birds from Córdoba, Castile-y-León and Castile-la-Mancha, undertaking the Pyrenean trajectories, after a stop a Gallocanta, mostly through Huesca and Navarra.



Maps nº 57 & 58: Routes taken by provinces from 31/01 to 11/02 and from 12/02 to 18/02

Between 19 and 25 February, migration became widespread from all wintering areas, with small flocks following the traditional Castilian route, while the bulk crossed the centre of the peninsula (Madrid and Guadalajara) to reach Gallocanta Lagoon, from where the majority headed for Sotонера Reservoir, crossing the Pyrenees *en masse*; nevertheless, weather conditions diverted some birds towards Catalonia, from this reservoir or from Gallocanta, while birds from Huesca and Zaragoza went through Navarra. In the last week, with less favourable winds, the peninsular route was concentrated through Cuenca province, which incorporated the most southerly birds (from Andalucía), mostly crossing Huesca and Catalonia.

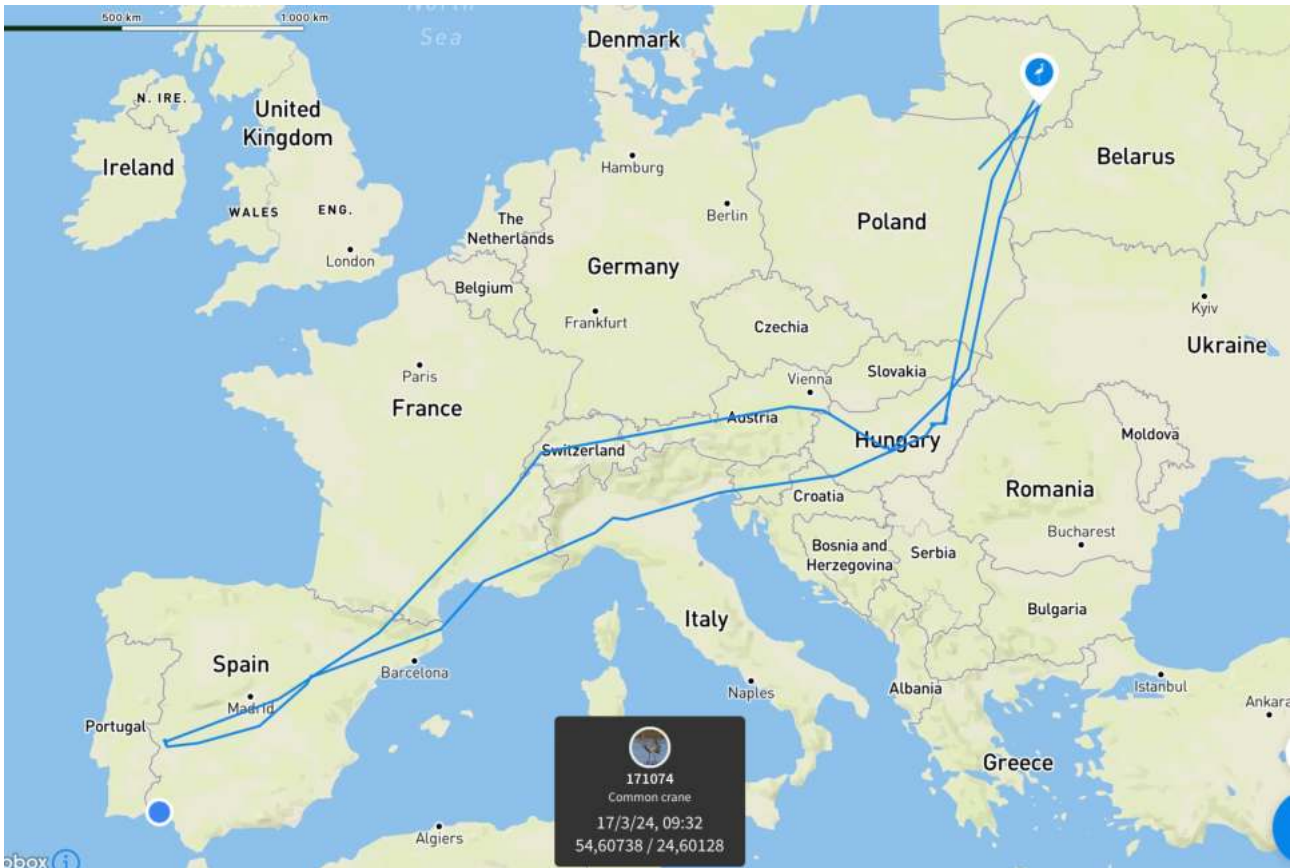


Maps nº 59 & 60: Provincial routes from 19/02 to 25/02 and from 26/02 to 03/03



Image nº; Cranes leaving on migration from Sotонера Reservoir (HU). Photo: Pablo Vallés

The total total number of days taken since they left their wintering area at Puebla de Obando to arrive at their breeding area was 22 days, 12 of which they stayed on the ground, so that the total was 10 flying days, travelling 3,410 kilometres, making for a daily average of 340km. The longest journey day was between Gallocanta Lagoon and Aiguamolls de L'Empordá, when they flew 445 km.



Map n° 61: Autumn and Spring routes taken by the Lithuanian cranes. Source: Animal Tracker

These cranes travelled 6,437 km over the two journeys. The autumn journey was somewhat shorter in distance, about 400 km less, though they spent the same number of days flying, this being 10 days. They left on 8 September and were in Hortobagy National Park on the 10th, where they stayed until 1 November, which was when they set off for Spain. They arrived on 16 November in the dehesas of Puebla de Obando and La Roca de la Sierra (BA), where they spent three months and one week of the winter, until they began their return journey. In total, they were away from their breeding area for a period of 6 months.

