

Censos de aves acuáticas invernantes en Galicia 1996-2015: Cunca do Sil e Cunca do Limia

Waterbird winter counts in Galicia 1996-2015: Sil River Basin and Limia River Basin

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PALABRAS CLAVE / KEY WORDS

Censos, aves, invernantes, Galicia, Cunca do Sil, Cunca do Limia

Waterbird, winter counts, Galicia, Sil River Basin, Limia River Basin

RESUMO / ABSTRACT

A presente publicación recolle os datos dos censos invernais de aves acuáticas por localidades na Cunca do Sil (encoros de Edrada, Mao, Chandrexa, Bao, Cenza, Prada, San Martiño, Santiago, Pumares e Penarrubia) e na Cunca do Limia (chaira de A Limia, Encoro das Conchas, Encoro de Salas) realizados no mes de xaneiro entre 1996 e 2015 pola Sociedade Galega de Historia Natural (en diante, SGHN) no cadro dos censos coordinados a nivel europeo por Wetlands International.

INTRODUCCIÓN

Para a realización dos censos das 10 localidades da cunca do Sil contou coa participación dun total de 16 ornitólogos da SGHN (Táboa 1) e para as 3 localidades

RESUMO / ABSTRACT

The present publication compiles the data 'by localities' from the waterbird January counts in the Sil River Basin (Edrada, Mao, Chandrexa, Bao, Cenza, Prada, San Martiño, Santiago, Pumares and Penarrubia dams) and the Limia River Basin (A Limia alluvial plain, As Conchas Dam, Salas Dam) done by the Sociedade Galega de Historia Natural (Galician Society of Natural History, SGHN) between 1996 e 2015, in the framework of the European censuses coordinated by Wetlands International.

INTRODUCTION

For the waterbird counts of the ten localities of the Sil River Basin, a total of 16 birders from SGHN

da cunca do Limia cun total de 21 ornitólogos da SGHN (Táboa 2) que aportaron persoalmente tódolos medios necesarios e correron con tódolos gastos; sen a súa colaboración altruísta e esforzada a realización destes censos sería imposible e, polo tanto, non existiría a presente publicación. En sucesivas entregas íranse publicando os datos dos censos por localidades das outras catro grandes áreas definidas por SGHN (os das Rías Altas do Cantábrico xa se publicaron nesta revista, véxase Braña 15: 22-26).

MATERIAL E MÉTODO

Dividiuse Galicia e áreas adxacentes (Foz do Miño e Foz de Ribadeo) en sete áreas definidas por criterios bioxeográficos, prescindindo da división administrativa do territorio: Rías Altas do Cantábrico (4 localidades), Rías Altas do Atlántico (14 localidades), cunca hidrográfica de Galicia Costa (7 localidades), Rías Baixas (7 localidades), Cunca do Miño (10 localidades), Cunca do Sil (10 localidades) e Cunca do Limia (3 localidades). Dependendo da súa superficie e do número de aves acuáticas invernantes, cada unha das localidades foi censada no mes de xaneiro de cada ano por 1-4 equipos de ornitólogos de SGHN (traballando simultánea e coordinadamente no caso de ser varios) empregando o material óptico máis axeitado en cada momento (binoculares e telescopios de diferentes aumentos e luminosidade). A presente serie de censos por localidade rematarase cunha publicación dos datos por especie cunha análise da evolución temporal de cada unha no decenio 2006-15, continuando así os publicados previamente para os quinquenios 1996-2000 e 2001-05.

RESULTADOS E DISCUSIÓN

As táboas amosan, para cada localidade e especie, os datos anuais e os promedios quinquenais.

Na cunca do Sil, entre os dez encoros considerados pódense diferenciar tres grupos claros segundo a súa importancia para a invernada de aves acuáticas. No primeiro atópanse os encoros de San Martiño e de Prada coas maiores cifras de número total de especies rexistradas (23 e 20, respectivamente), número de especies rexistradas anualmente (5-11 e 5-10,

(Table 1) provided altruistically their work as well as all the equipment required. The same was done for the three localities of the Limia River Basin by a total of 21 birders from SGHN (Table 2). Therefore, without their generous collaboration the present publication will not be possible. In successive issues, SGHN will continue to publish the waterbird winter counts for the localities of the other four big areas defined by SGHN with biogeographic criteria (those from the Rías Altas do Cantábrico were already published in this journal; see Braña 15, 22-26).

MATERIAL AND METHOD

Galicia and adjacent areas (Miño estuary and Ribadeo estuary) were divided in seven areas with biogeographic criteria: Rías Altas do Cantábrico (4 localities), Rías Altas do Atlántico (14 localities), Galicia Costa Basin (7 localities), Rías Baixas (7 localities), Miño Basin (10 localities), Sil Basin (10 localities) and Limia Basin (4 localities). Depending on its surface and the number of wintering waterbirds, each locality was annually count in January by 1-4 teams of SGHN birders (working simultaneously and coordinately when more than one team), employing the optical equipment most appropriate in each case (binoculars and telescopes of different characteristics). The present series of censuses by wintering area will be finished by publishing data by species with an analysis of the time evolution in the 2006-15 period, which will continue the previously published for the 1996-2000 and 2001-05 periods.

RESULTS AND DISCUSSION

The tables show, for each locality and species, the data by year and the mean for each five-year period.

In the Sil River Basin, according to their importance for wintering waterbirds, three clear groups can be distinguished among the ten dams considered. The first group with San Martiño and Prada dams, with the highest figures for total number of species recorded (23 and 20, respectively), number of species recorded annually (5-11 and 5-10, respectively) and total counts of waterbirds (76-386 and 58-263, respectively). In the second group we found the dams of Bao, Edrada, Mao,

respectivamente) e efectivos de aves acuáticas censadas (76-386 e 58-263, respectivamente). Nun segundo grupo sitúanse os encoros de Bao, Edrada, Mao, Pumares, Penarrubia e Santiago, con valores intermedios para número total de especies rexistradas (10-14), número de especies rexistradas anualmente (3-9) e efectivos de aves acuáticas censadas (xeralmente no rango 20-200). No terceiro grupo atópanse os encoros de Chandrexa e Cenza que, coas máximas altitudes das localidades censadas en Galicia (911 e 1344 m snm, respectivamente), amosan os menores valores para todos os indicadores considerados: 6 especies rexistradas, presenza anual de 1-4 especies e 1-36 aves censadas.

Na cunca do Limia, con 37 especies rexistradas en todo o período, con presenza anual de entre 11 e 24 especies de aves invernantes e uns efectivos que oscilan normalmente entre 2.000 e 4.000 aves (excepcionalmente case 7.000), a chaira de A Limia é, con gran diferenza, a máis importante das tres localidades. O Encoro do Salas, no que se teñen rexistrado 18 especies invernantes cunha presenza anual de 4-11 especies, os efectivos amosan fluctuacións sen tendencia temporal clara entre 30 e 400 aves. Pola contra, no Encoro das Conchas os efectivos invernantes ata 1998 (500-1.000 aves) reducíronse moito a partires de 1999 (40-250 aves), se ben a riqueza de especies (presenza anual de 4-9 e total de 16) mantívose constante.

Pumares, Penarrubia and Santiago, with intermediate values for the total number of species (10-14), number of species recorded annually (3-9) and total counts of waterbirds (usually in the range 20-200). Finally, the third group with Chandrexa and Cenza dams (with the highest altitudes of all localities censused in Galicia: 911 and 1344 m asl, respectively) which showed the lowest values for all the indices considered: 6 species recorded, annual presence of 1-4 species and 1-36 wintering waterbirds.

In the Limia River Basin, with a total of 37 species recorded in the 1996-2015 period, the annual presence of 11-24 wintering species and total counts usually between 2000 and 4000 waterbirds (exceptionally 7000), the A Limia floodplain is by far the most important one of these three localities. The Salas Dam, where 18 wintering species have been recorded (annual presence of 4-11 species), shows winter counts in the range of 30-400 waterbirds, without any clear time tendency. By the contrary, in As Conchas Dam the winter counts until the year 1998 (500-1000 birds) decreased noticeably from 1999 (40-250 birds), although the species richness remained stable (annual presence of 4-9 species; total = 16).

	A Limia	Encoro das Conchas	Encoro de Salas	Censadores
1996	AVG, CNP, GGM, IAB, JMP, RPL, RRF,	MFH, SGP	MFH, SGP	ACV: Alejandra Couto Vázquez
1997	AVG, CNP, IAB, MFH	JMP, SGP	JMP, SGP	ARC: Alberto Rodríguez Carballo
1998	AVG, CNP, ETA, GGM, IAB, MFH	JMP, SGP	JMP, SGP	AVG: Antonio Villarino Gómez
1999	AVL, AVG, IAB, JMP, MFH, MSF, SAB, SGP	JMP, SGP	JMP, SGP	AVL: Andrés Vázquez Lorenzo
2000	AVG, CNP, IAB, JMP, MFH, MSF, SAB, SGP	JMP, SGP	JMP, SGP	ETA: Elena Theotonio Arenas
2001	AVG, CNP, IAB, JMP, MFH, SAB, SGP, YTV	JMP, SGP	JMP, SGP	IAB: Isabel Álvarez Balvis
2002	AVG, CNP, IAB, JMP, MFH, SAB, SGP, YTV	JMP, SGP, YTV	JMP, SGP, YTV	CNP: Celso Nieto Pérez
2003	AVG, CNP, IAB, JMP, MFH, SAB, SGP, YTV	JMP, SGP, YTV	JMP, SGP, YTV	GGM: Gaspar Gubert Marqués
2004	IAB, JMP, MFH, SAB, SGP, YTV	AVG, CNP, MJS	AVG, CNP, MJS	JCL: José Calleja López
2005	AVG, CNP, IAB, MFH, SAB, SGP	JMP, YTV	JMP, YTV	JMP: José Manuel Pérez Pérez
2006	AVG, CNP, IAB, MFH, SAB	JMP, YTV	JMP, YTV	LLL: Lucas Lamelas López
2007	ACV, AVG, CNP, IAB, MFH, SAB, SGP	JMP, YTV	JMP, YTV	MFH: Marcos Freán Hernández
2008	ACV, AVG, CNP, IAB, MFH, SAB, SGP	JMP, YTV	JMP, YTV	MJS: Mª José Santana Nogueiras
2009	ACV, AVG, CNP, IAB, JMP, MFH, SAB, SGP	JMP	JMP	MSF: Marisa Seoane Freijoso
2010	ACV, AVG, CNP, IAB, JMP, MFH, SAB, SGP	JMP	JMP	PFG: Pilar Fernández González
2011	ACV, AVG, CNP, IAB, JMP, MFH, PFG, SAB, SGP, YTV	JMP, YTV	JMP, YTV	RPL: Rafael Parra López
2012	ACV, ARC, AVG, CNP, IAB, JMP, MFH, SAB, SGP, YTV	JMP, YTV	JMP, YTV	RRF: Rubén Rodríguez Fernández
2013	AVG, CNP, IAB, JCL, MFH, SAB, SGP, TGG	JMP, LLL, YTV	JMP, LLL, YTV	SAB: Socorro Álvarez Balvis
2014	ARC, AVG, CNP, IAB, JCL, MFH, SAB, SGP, TGG	JMP, YTV	JMP, YTV	SGP: Serafin González Prieto
2015	ARC, AVG, CNP, IAB, JCL, JMP, MFH, SAB, SGP, TGG, YTV	JMP, YTV	JMP, YTV	TGG: Tomás García García
				YTV: Yolanda Taboada Varela

Táboa 1 / Table 1. Ornitólogos participantes. Ornithologists list

A LIMIA	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	1996 2000	2001 2005	2006 2010	2011 2015
<i>Tachybaptus ruficollis</i>	22	40	40	104	80	32	78	48	57	57	43	42	81	64	35	61	69	65	57	87	57	54	53	68
<i>Podiceps cristatus</i>								3	1		3	1			4	6	1	14	10	16	0	1	2	9
<i>Podiceps nigricollis</i>															1						0	0	0	0
<i>Phalacrocorax carbo</i>						5		19	57	76	93	99	105	125	75	84	78	43	38	66	0	31	99	62
<i>Bubulcus ibis</i>				4													1				1	0	0	0
<i>Egretta alba</i>						1											2	3	2	2	0	0	0	2
<i>Egretta garzetta</i>				1						1			5	2							0	0	1	0
<i>Ardea cinerea</i>	10	6	20	19	26	30	37	29	26	25	28	41	35	27	41	47	51	28	45	55	16	29	34	45
<i>Ciconia ciconia</i>			13	18	18	23	25	26	31	18	6	29	26	22	27	50	35	41	52	36	10	25	22	43
<i>Plegadis falcinellus</i>																	3				0	0	0	1
<i>Anser anser</i>	2							1	4								1				0	1	0	0
<i>Aloochen aegyptiacus (R)</i>							1														0	0	0	0
<i>Aix galericulata (R)</i>																	1				0	0	0	0
<i>Anas penelope</i>			12	8	14	12	4	16	40	23	25	10	14	13	8	46	13	1	16	4	7	19	14	16
<i>Anas strepera</i>						18				4	10		3	2	2	14	14	19	17	12	0	4	3	15
<i>Anas crecca</i>	159		208	256	260	174	148	241	304	345	242	74	197	326	103	1278	184	145	267	303	177	242	188	435
<i>Anas platyrhynchos</i>	809	1354	3159	1812	2258	3374	2422	2895	2192	2577	1409	1652	1460	1164	1591	1467	1423	1370	1609	915	1878	2692	1455	1357
<i>Anas acuta</i>						6						2					2	1		3	0	1	0	1
<i>Anas clypeata</i>	5		10	18	3	12	21	26	24	31	17	10	11	22	13	37	21		26	45	7	23	15	26
<i>Aythya ferina</i>	32			5	11	4	1										1				10	1	0	0
<i>Aythya fuligula</i>	12	1	2				5	1							3	2		4			3	1	1	1
<i>Rallus aquaticus</i>				2	1		3					1	6	41	16	7	18	8	6	21	1	1	13	12
<i>Gallinula chloropus</i>	84	120	63	145	102	16	80	7	49	60	42	34	51	99	45	52	108	58	34	47	103	42	54	60
<i>Fulica atra</i>	10	5	1			1	2	4											2	2	3	1	0	1
<i>Grus grus</i>					2																0	0	0	0
<i>Pluvialis apricaria</i>	210	277		86	88	360	77	453	15		124	34	15	417	486	366			39		132	181	215	81
<i>Vanellus vanellus</i>	318	870		850	158	75	102	326	58	210	41	15	369	758	724	3308	41	57	133	118	439	154	381	731
<i>Lymnocyptes minimus</i>																	1			1	0	0	0	0
<i>Gallinago gallinago</i>	2	2	2	13	7	1	10	9	2	3		63	22	11	50	16	11	8	27	6	5	5	29	14
<i>Scolopax rusticola</i>														1							0	0	0	0
<i>Tringa ochropus</i>	3	2				2	1	7				3	3			1	1	1	2	2	1	2	1	1
<i>Actitis hypoleucos</i>	1	1	1	2	5				1						1		3			1	2	0	0	1
<i>Larus ridibundus</i>				3										2	10						1	0	2	0
<i>Larus fuscus</i>									2								1				0	0	0	0
<i>Alcedo atthis</i>				3	6	5	9	5	5	2		2	6	5	1	3	16	7	6	3	2	5	3	7
<i>Circus aeruginosus</i>														1			1				0	0	0	0
<i>Asio flammeus</i>				1																	0	0	0	0
TOTAL ESPECIES	15	11	12	18	18	18	18	18	17	14	13	17	17	19	20	19	24	19	21	20	15	17	17	21
TOTAL CENSO	1679	2678	3531	3349	3041	4150	3026	4116	2868	3432	2083	2112	2409	3102	3236	6847	2097	1874	2392	1742	2856	3518	2588	2990
Especies 1996-2015	37																							

ENCORO DAS CONCHAS	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	1996 2000	2001 2005	2006 2010	2011 2015
<i>Tachybaptus ruficollis</i>	3	8		3	3	1	8			2	1		4	1	1		3	1	1	15	3	2	1	4
<i>Podiceps cristatus</i>	34	26	48	10	19	36	25	19	18	15	40	44	90	30	39	62	43	18	35	42	27	23	49	40
<i>Phalacrocorax carbo</i>					1	1	5	8	12	26	38	22	44		28	18	33		6	33	0	10	26	18
<i>Ardea cinerea</i>	1	2	4	11	1	1	15	0	1	2	1	2	3	2	1	2	3	1		3	4	4	2	2
<i>Anser anser</i>					1																0	0	0	0
<i>Anas strepera</i>	9	4																			3	0	0	0
<i>Anas crecca</i>	194	303	119	23	37	96		4							139	34					135	20	0	35
<i>Anas platyrhynchos</i>	585	657	395	67	114	80	67	65	38	33	67	89	52	36	26	36	86	120		123	364	57	54	73
<i>Anas clypeata</i>	7																				1	0	0	0
<i>Fulica atra</i>	1																				0	0	0	0
<i>Vanellus vanellus</i>				1																	0	0	0	0
<i>Gallinago gallinago</i>		1																			0	0	0	0
<i>Actitis hypoleucos</i>	1	1					2			1	2								1		0	1	0	0
<i>Larus ridibundus</i>		2		5			3														1	1	0	0
<i>Larus michahellis</i>							1			1				1	2						0	0	1	0
<i>Alcedo atthis</i>				1			2		1		2			2			2			1	0	1	1	1
TOTAL ESPECIES	9	9	4	8	7	6	9	5	5	7	7	4	5	6	6	5	6	5	4	6	7	6	6	5
TOTAL CENSO	835	1004	566	121	176	215	128	96	70	80	151	157	193	72	97	257	202	142	43	217	540	118	134	172
Especies 1996-2015	16																							

ENCORO DE SALAS	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	1996 2000	2001 2005	2006 2010	2011 2015
<i>Gavia immer</i>														1	1						0	0	0	0
<i>Tachybaptus ruficollis</i>	1	8	5	1	2									7	5	2					3	0	3	0
<i>Podiceps cristatus</i>	4	6	15	2	12	15	3	4	4	9	6	19	21	9	18	7	3	1	8	7	8	7	15	5
<i>Phalacrocorax carbo</i>									1					4			2	1	4	2	0	0	1	2
<i>Egretta alba</i>													1								0	0	0	0
<i>Ardea cinerea</i>	1	4	5	26	1	1	4	1	1	1	1	1	2	1	2	1	2	1	4		7	2	1	2
<i>Ciconia ciconia</i>															1						0	0	0	0
<i>Anas crecca</i>	50	78	161	59	74	65	20	16	66	34	27	16	31	24	78	317	21		42	25	84	40	35	81
<i>Anas platyrhynchos</i>	25	154	90	95	68	99	102	88	133	87	60	50	92	20	25	69	68	30	75	21	86	102	49	53
<i>Aythya ferina</i>		1				1															0	0	0	0
<i>Vanellus vanellus</i>		3			3																1	0	0	0
<i>Gallinago gallinago</i>	2	3																			1	0	0	0
<i>Numenius arquata</i>		2																			0	0	0	0
<i>Tringa ochropus</i>		1		1																	0	0	0	0
<i>Actitis hypoleucos</i>					1	1															0	0	0	0
<i>Larus ridibundus</i>	3	1		2						1											1	0	0	0
<i>Alcedo atthis</i>				2	1		1				1				1						1	0	0	0
<i>Cinclus cinclus</i>							2														0	0	0	0
TOTAL ESPECIES	7	11	5	8	8	6	6	4	5	5	5	4	8	7	6	5	4	4	5	4	8	5	6	4
TOTAL CENSO	86	261	276	188	162	182	132	109	205	132	95	86	159	61	126	396	94	33	133	55	195	152	105	142
Especies 1996-2015	18																							

	E. Edrada	E. Mao	E. Chandrexa	E. Cenza	E. Bao	Censadores
1996	FFG, RRF	FFG, RRF	FFG, RRF		GGM, JMP, RPL	ANP: Alberto Nieto Pérez
1997	AVG, CNP	AVG, CNP	AVG, CNP		IAB, MFH, TJG	ATF: Alfonso Theotonio Arenas
1998	AVG, CNP	AVG, CNP	AVG, CNP	IAB, MFH	IAB, MFH	AVG: Antonio Villarino Gómez
1999	AVG, CNP	AVG, CNP	AVG, CNP	IAB, MFH, MSF, SAB	IAB, MFH, MSF, SAB	IAB: Isabel Álvarez Balvís
2000	AVG, CNP	AVG, CNP	ANP, AVG, CNP, CSV	IAB, MFH, MSF, SAB	IAB, MFH, MSF, SAB	CNP: Celso Nieto Pérez
2001	AVG, CNP	AVG, CNP	AVG, CNP	IAB, MFH, MSF, SAB	IAB, MFH, MSF, SAB	CSV: Carmen Sierra Vázquez
2002	CNP, MJS	CNP, MJS	CNP, MJS	IAB, MFH, MSF, SAB	IAB, MFH, MSF, SAB	FFG: Francisco Fernández Gómez
2003	CNP, MJS	CNP, MJS	CNP, MJS		IAB, MFH, SAB	GGM: Gaspar Gubert Marqués
2004	CNP, MJS	CNP, MJS	CNP, MJS	IAB, MFH, SAB	IAB, MFH, SAB	JMP: José Manuel Pérez Pérez
2005	AVG, CNP	AVG, CNP	AVG, CNP	IAB, MFH	IAB, MFH	MFH: Marcos Freán Hernández
2006	AVG, CNP	AVG, CNP	AVG, CNP	IAB, MFH, SAB	IAB, MFH, SAB	MJS: M ^a José Santana Lorenzo
2007	JMP, YTV	JMP, YTV	JMP, YTV	IAB, MFH	IAB, MFH	RPL: Rafael Parra López
2008	JMP, YTV	JMP, YTV	JMP, YTV	IAB, MFH	IAB, MFH	RRF: Rubén Rodríguez Fernández
2009	AVG, CNP	AVG, CNP	AVG, CNP	IAB, MFH	IAB, MFH	SAB: Socorro Álvarez Balvís
2010	AVG, CNP	AVG, CNP	AVG, CNP	IAB, MFH	IAB, MFH	TJG: Teresa Junco González
2011	AVG, CNP	AVG, CNP	AVG, CNP	IAB, MFH	IAB, MFH	YTV: Yolanda Taboada Varela
2012	IAB, MFH, SAB	IAB, MFH, SAB	IAB, MFH, SAB	IAB, MFH, SAB	IAB, MFH, SAB	
2013	AVG, CNP	AVG, CNP	AVG, CNP	IAB, MFH	IAB, MFH	
2014	AVG, CNP	AVG, CNP	AVG, CNP	IAB, MFH	IAB, MFH	
2015	AVG, CNP	AVG, CNP	AVG, CNP	IAB, MFH	IAB, MFH	
	E. Prada	E. San Martiño	E. Santiago	E. Pumares	E. Penarrubia	
1996	FFG, ATF	GGM, MFH, RPL	IAB, JMP	IAB, JMP	IAB, JMP	
1997	IAB, MFH, RPL	IAB, MFH	IAB, MFH	IAB, MFH	IAB, MFH	
1998	IAB, MFH	IAB, MFH	IAB, MFH	IAB, MFH	IAB, MFH	
1999	IAB, MFH	IAB, MFH, MSF, SAB	IAB, MFH, MSF, SAB	IAB, MFH, MSF, SAB	IAB, MFH, MSF, SAB	
2000	IAB, MFH, MSF, SAB	IAB, MFH, MSF, SAB	IAB, MFH, MSF, SAB	IAB, MFH, MSF, SAB	IAB, MFH, MSF, SAB	
2001	IAB, MFH, MSF, SAB	IAB, MFH, SAB	IAB, MFH, SAB	IAB, MFH, SAB	IAB, MFH, SAB	
2002	IAB, MFH, MSF, SAB	IAB, MFH, SAB	IAB, MFH, SAB	IAB, MFH, SAB	IAB, MFH, SAB	
2003	IAB, MFH, SAB	IAB, MFH, SAB	IAB, MFH, SAB	IAB, MFH, SAB	IAB, MFH, SAB	
2004	IAB, MFH, SAB	IAB, MFH, SAB	IAB, MFH, SAB	IAB, MFH, SAB	IAB, MFH, SAB	
2005	IAB, MFH	IAB, MFH, SAB	IAB, MFH, MSF	IAB, MFH, MSF	IAB, MFH, MSF	
2006	IAB, MFH, SAB	IAB, MFH, SAB	IAB, MFH, SAB	IAB, MFH, SAB	IAB, MFH, SAB	
2007	IAB, MFH	IAB, MFH	IAB, MFH	IAB, MFH	IAB, MFH	
2008	IAB, MFH, SAB	IAB, MFH, SAB	IAB, MFH, SAB	IAB, MFH, SAB	IAB, MFH, SAB	
2009	IAB, MFH	IAB, MFH, SAB	IAB, MFH, SAB	IAB, MFH, SAB	IAB, MFH, SAB	
2010	IAB, MFH	IAB, MFH, SAB	IAB, MFH, SAB	IAB, MFH, SAB	IAB, MFH, SAB	
2011	IAB, MFH	IAB, MFH	IAB, MFH	IAB, MFH	IAB, MFH	
2012	IAB, MFH, SAB	IAB, MFH, SAB	IAB, MFH, SAB	IAB, MFH, SAB	IAB, MFH, SAB	
2013	IAB, MFH	IAB, MFH, SAB	IAB, MFH, SAB	IAB, MFH, SAB	IAB, MFH, SAB	
2014	IAB, MFH	IAB, MFH	IAB, MFH	IAB, MFH	IAB, MFH	
2015	IAB, MFH	IAB, MFH, SAB	IAB, MFH, SAB	IAB, MFH, SAB	IAB, MFH, SAB	

Táboa 2 / Table 2. Ornitólogos participantes. Ornithologists list

Censos de aves acuáticas invernantes en Galicia 1996-2015: Cunca do Sil e Cunca do Limia

ENCORO DA EDRA DA	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	1996 2000	2001 2005	2006 2010	2011 2015	
<i>Tachybaptus ruficollis</i>			1																			0	0	0	0
<i>Podiceps cristatus</i>					1	5													1			0	1	0	0
<i>Phalacrocorax carbo</i>					2	1	1	1	4	5	5	6	2	15	3	10	14	5	2	8		0	2	6	8
<i>Ardea cinerea</i>	1		1	17	1	1	4	3	7	2	4	2	2	3		1	2	1	1	2	4	3	2	1	
<i>Anas crecca</i>		75	7	66	44		56		82	97	73	30	18	36		6	81			52	38	47	31	28	
<i>Anas platyrhynchos</i>	36	100	30	115	93	26	28	23	61	36	57	81	31	106	2	56	8	15	10	60	75	35	55	30	
<i>Aythya ferina</i>		2	4		2																2	0	0	0	
<i>Tringa ochropus</i>				2																	0	0	0	0	
<i>Actitis hypoleucos</i>						1							1	1							0	0	0	0	
<i>Larus ridibundus</i>		1																			0	0	0	0	
<i>Cinclus cinclus</i>											1										0	0	0	0	
<i>Pandion haliaetus</i>							1														0	0	0	0	
TOTAL ESPECIES	2	4	5	4	6	5	5	3	4	4	5	4	5	5	2	4	4	3	4	4	4	4	4	4	
TOTAL CENSO	37	178	43	200	143	34	90	27	154	140	140	119	54	161	5	73	105	21	14	122	120	89	96	67	
Especies 1996-2015	12																								

ENCORO DO MAO	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	1996 2000	2001 2005	2006 2010	2011 2015	
<i>Tachybaptus ruficollis</i>				2		3		1		2												0	1	0	0
<i>Podiceps cristatus</i>							2	1	1	1												0	1	0	0
<i>Phalacrocorax carbo</i>							1	2	1			7			4	1	7	3	4	8		0	1	2	5
<i>Ardea cinerea</i>	2	1	1	3	1	1	1	2	2	1	1	3	1	3	1	1	2	1	4		2	1	2	2	
<i>Anas crecca</i>								18		59							14			37		0	15	0	10
<i>Anas platyrhynchos</i>	12	14	14	20	8	39	19	13	11	2	2	4	37	24	11	31	18	21	67		14	17	16	27	
<i>Gallinago gallinago</i>	2			1	7				8		3	2	1			1		1	17	4	2	2	1	5	
<i>Tringa nebularia</i>					2																0	0	0	0	
<i>Tringa ochropus</i>			1	2																2	1	0	0	0	
<i>Actitis hypoleucos</i>							6			2											0	2	0	0	
<i>Larus ridibundus</i>																1					0	0	0	0	
TOTAL ESPECIES	3	2	3	5	4	3	4	6	5	7	3	4	3	2	3	5	4	4	4	4	3	5	3	4	
TOTAL CENSO	16	15	16	28	18	43	28	36	24	68	6	16	39	27	16	35	41	26	92	51	19	40	21	49	
Especies 1996-2015	11																								

ENCORO DE CHANDREXA	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	nc 2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	1996 2000	2001 2005	2006 2010	2011 2015	
<i>Tachybaptus ruficollis</i>	1																					0	0	0	0
<i>Podiceps cristatus</i>	5	10	10	9	16	1	2	17	9	17		19	7	9	6	1	24	7	10	10		10	9	8	10
<i>Phalacrocorax carbo</i>																			1			0	0	0	0
<i>Ardea cinerea</i>	1		1	1									1				1					1	0	0	0
<i>Anas platyrhynchos</i>	6	12	6		5	5	2	19	17	2		2	1	1	14		2		4	7	6	9	4	3	
<i>Cinclus cinclus</i>				1	2												1					1	0	0	0
TOTAL ESPECIES	4	2	3	3	3	2	2	2	2	2	nc	2	3	2	2	1	4	1	3	2	3	2	2	2	
TOTAL CENSO	13	22	17	11	23	6	4	36	26	19	nc	21	9	10	20	1	28	7	15	17	17	18	12	14	
Especies 1996-2015	6																								

ENCORO DO CENZA	nc 1996	nc 1997	1998	1999	2000	2001	2002	nc 2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	1996 2000	2001 2005	2006 2010	2011 2015	
<i>Podiceps cristatus</i>													2									0	0	0	0
<i>Phalacrocorax carbo</i>											1			2	2	2				2		0	0	1	1
<i>Ardea cinerea</i>							1		1	2	2		1	1			1					0	1	1	0
<i>Anas crecca</i>										1							1					0	0	0	0
<i>Anas platyrhynchos</i>			38	7	3	11	4		8	12		5	8		6	19	8	2	9	4	10	7	4	8	
<i>Cinclus cinclus</i>										1	1				1	1				1		0	0	1	0
TOTAL ESPECIES	nc	nc	1	1	1	1	2	nc	2	4	3	1	3	3	3	2	4	1	2	2	1	2	3	2	
TOTAL CENSO	nc	nc	38	7	3	11	5	nc	9	16	4	5	11	4	9	21	11	2	11	5	10	8	7	10	
Especies 1996-2015	6																								

2003: Non censado por imposibilidade de acceso (nevada)

ENCORO DO BAO	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	1996 2000	2001 2005	2006 2010	2011 2015	
<i>Tachybaptus ruficollis</i>										2					1						0	0	0	0	
<i>Podiceps cristatus</i>		1	12	14	20	5	2	7	17	9	3	10	5	6	4	2	3	3	7	5	9	8	6	4	
<i>Phalacrocorax carbo</i>	3	2	3	2	4	9	10	5	14	11	5	18	28	21	9	22	24	8	7	6	3	10	16	13	
<i>Ardea cinerea</i>	1	2	4	3	1	3	3	9	1	3	1	2	1	1	2	1	2		2	1	2	4	1	1	
<i>Ciconia ciconia</i>			1	2		1	1	2		1	1					1			1	1	1	1	1	1	
<i>Anas penelope</i>													1								0	0	0	0	
<i>Anas crecca</i>							1								2						0	0	0	0	
<i>Anas platyrhynchos</i>	42	21	129	44	44	50	77	70	56	62	87	62	114	32	79	76	137	85	58	23	56	63	75	76	
<i>Anas acuta</i>			1																		0	0	0	0	
<i>Aythya ferina</i>																					0	0	0	0	
<i>Aythya fuligula</i>								3	2												0	1	0	0	
<i>Vanellus vanellus</i>								41						90							0	8	18	0	
<i>Gallinago gallinago</i>										2											0	0	0	0	
<i>Actitis hypoleucos</i>							1	1	1		1						2	1		1	0	1	0	1	
<i>Cinclus cinclus</i>			1	3			1		1	1	3	1	5	1	1	1	1	1			1	1	2	1	
TOTAL ESPECIES	3	4	7	6	4	5	8	8	7	8	7	5	7	7	6	6	6	5	5	6	5	7	6	6	
TOTAL CENSO	46	26	151	68	69	68	96	138	92	91	101	93	157	153	96	103	169	98	75	37	72	97	120	96	
Especies 1996-2015	15																								

ENCORO DE PRADA	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	1996 2000	2001 2005	2006 2010	2011 2015	
<i>Tachybaptus ruficollis</i>	5	5	6	8	5	7	3	12	11	12	21	24	14	10	13	24	5	4	15		6	9	16	10	
<i>Podiceps cristatus</i>	30	44	55	44	50	77	64	76	45	84	74	79	49	55	42	43	66	54	48	40	45	69	60	50	
<i>Podiceps auritus (R)</i>																			1		0	0	0	0	
<i>Phalacrocorax carbo</i>							1		3	7	5	7	6	2	6	6	10	4	9	1	0	2	5	6	
<i>Ardea cinerea</i>	3	3	4	2	1	6	3	3	4	4	3	6	6	1	5	5	8	2	3	1	3	4	4	4	
<i>Anser anser</i>				1	1																0	0	0	0	
<i>Aix galericulata (R)</i>																	4				0	0	0	1	
<i>Anas penelope</i>	2								2										1		0	0	0	0	
<i>Anas crecca</i>		5					4		14	5				1	7		1	3		5	1	5	2	2	
<i>Anas platyrhynchos</i>	18	108	43	30	22	41	41	32	94	83	54	145	85	123	156	117	102	118	159	142	44	58	113	128	
<i>Anas acuta</i>		1																			0	0	0	0	
<i>Anas clypeata</i>								10													0	2	0	0	
<i>Aythya ferina</i>		7				1			2	8					1						1	2	0	0	
<i>Aythya fuligula</i>		7	8	6	5	7	4	2									1				5	3	0	0	
<i>Grus grus</i>						2															0	0	0	0	
<i>Actitis hypoleucos</i>		3		2		2	4	2				1	1		1	1		1	1	2	1	2	1	1	
<i>Larus ridibundus</i>		1																			0	0	0	0	
<i>Alcedo atthis</i>							1														0	0	0	0	
<i>Cinclus cinclus</i>			1				4			9	5	1	5	5	1	1	2		1	4	0	3	3	2	
<i>Pandion haliaetus</i>					1																0	0	0	0	
TOTAL ESPECIES	5	10	6	7	8	10	7	8	8	8	6	7	7	7	9	7	8	8	9	7	7	8	7	8	
TOTAL CENSO	58	184	117	93	85	143	129	137	175	212	162	263	166	197	232	197	195	190	238	195	107	159	204	203	
Especies 1996-2015	20																								

ENCORO DE SAN MARTIÑO	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	1996 2000	2001 2005	2006 2010	2011 2015	
<i>Tachybaptus ruficollis</i>		2	7	19	10	8	19	9	9	20	15	6	5	14	6	10	19	18	10	10	8	13	9	13	
<i>Podiceps cristatus</i>	18	47	45	37	46	14	5	20	16	13	23	14	10	8	6	3	12	22	11	15	39	14	12	13	
<i>Phalacrocorax carbo</i>	16	44	57	101	142	178	291	332	221	320	248	150	116	105	60	54	71	70	53	102	72	268	136	70	
<i>Bubulcus ibis</i>				1																	0	0	0	0	
<i>Egretta alba</i>																	2		1	1	0	0	0	1	
<i>Ardea cinerea</i>	16	18	10	21	15	12	5	15	9	2	8	8	5	4	5	6	6	6	3	8	16	9	6	6	
<i>Ciconia ciconia</i>			4	1		8	4	4	2	4	2		3		4	1	2				1	4	2	1	
<i>Anser anser</i>									2												0	0	0	0	
<i>Anas penelope</i>						2															0	0	0	0	
<i>Anas strepera</i>																		1			0	0	0	0	
<i>Anas platyrhynchos</i>	58	23	36	66	63	88	41	29	17	14	28	35	8	12	43	2	32	54	5	15	49	38	25	22	
<i>Aythya ferina</i>	8	3			1						1										2	0	0	0	
<i>Aythya fuligula</i>	18	3		5	1																5	0	0	0	
<i>Rallus aquaticus</i>																			1		0	0	0	0	
<i>Gallinula chloropus</i>	3		1		8	3		2		1	1	3						1			2	1	1	0	
<i>Fulica atra</i>	67	18	6	67	47	10	20	3	13	11	17	7	2		1						41	11	5	0	
<i>Vanellus vanellus</i>											6					1					0	0	1	0	
<i>Actitis hypoleucos</i>								1													0	0	0	0	
<i>Larus ridibundus</i>		4	1	2	2																2	0	0	0	
<i>Larus canus</i>						1															0	0	0	0	
<i>Alcedo atthis</i>			1				1	1													0	0	0	0	
<i>Cinclus cinclus</i>		1				1					1										0	0	0	0	
<i>Pandion haliaetus</i>				1																	0	0	0	0	
TOTAL ESPECIES	8	10	10	11	10	11	8	10	8	8	11	7	7	5	8	6	7	7	7	6	10	9	8	7	
TOTAL CENSO	204	163	168	321	335	325	386	416	289	385	350	223	149	143	126	76	144	172	84	151	238	360	198	125	
Especies 1996-2015	23																								

Censos de aves acuáticas invernantes en Galicia 1996-2015: Cunca do Sil e Cunca do Limia

ENCORO DE SANTIAGO	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	1996 2000	2001 2005	2006 2010	2011 2015	
<i>Tachybaptus ruficollis</i>	2	4		4	4	7	3	10	7	17	10	7	15	10	3	11	6	12	6	7	3	9	9	8	
<i>Podiceps cristatus</i>	1	2	3	2	2	5	2	6	4	4	2	1									2	4	1	0	
<i>Phalacrocorax carbo</i>	2		3	3	1	3	2	5	12	7		7			28	15	70	139	30		2	6	7	51	
<i>Ardea cinerea</i>	1	8	2	4	2	3	7	3	3	3	3	2	12	8	2	3	2	6	1	3	3	4	5	3	
<i>Ciconia ciconia</i>			1				1		4	4			10	5	3	5	2	1	6		0	2	4	3	
<i>Anas platyrhynchos</i>	15	17	9	8	20	18	3	7	32	49	11	37	30	24	26	11	24	54	27	17	14	22	26	27	
<i>Aythya ferina</i>	2		4																		1	0	0	0	
<i>Aythya fuligula</i>	8	1																			2	0	0	0	
<i>Gallinula chloropus</i>				2	1	4		14	3	12	3	6	3	6	10	1	1	10	2	5	1	7	6	4	
<i>Fulica atra</i>		5				4		9	1	3											1	3	0	0	
<i>Larus ridibundus</i>		1																			0	0	0	0	
<i>Alcedo atthis</i>															1						0	0	0	0	
TOTAL ESPECIES	7	7	6	6	6	7	6	7	8	8	5	6	5	5	7	6	6	6	6	4	6	7	6	6	
TOTAL CENSO	31	38	22	23	30	44	18	54	66	99	29	60	70	53	73	46	105	222	72	32	29	56	57	95	
Especies 1996-2015	12																								

ENCORO DE PUMARES	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	1996 2000	2001 2005	2006 2010	2011 2015	
<i>Tachybaptus ruficollis</i>	1	1	9	9	5	1	10	6	14	14	13	8	16	30	10	26	47	43	20	28	5	9	15	33	
<i>Podiceps cristatus</i>	16	13	22	4	9	12	7	9	14	11	16	22	10	8	6	6	8	4	2	2	13	11	12	4	
<i>Phalacrocorax carbo</i>	4				7	1	4	5	6	33		21			17	11	19				2	10	8	6	
<i>Ardea cinerea</i>		2	2	5	2		13	8	16	6	9	20	12	9	6	7	8	8	3	4	2	9	11	6	
<i>Ciconia ciconia</i>			2	2	4	6		1	2	5	4		2			2	2				2	3	1	1	
<i>Anas platyrhynchos</i>	15	35	30	22	4	7	21	9	36	48	25	44	56	17	26	23	38	59	37	56	21	24	34	43	
<i>Aythya fuligula</i>		4	13		3		4		4			2									4	2	0	0	
<i>Gallinula chloropus</i>			1		3	1	5		2	6	7	4	5	8			2	1	4		7	1	3	5	3
<i>Fulica atra</i>	12	8	3	9	3	2															7	0	0	0	
<i>Actitis hypoleucos</i>									1												0	0	0	0	
<i>Alcedo atthis</i>			1				1	1					2				1	3			0	0	0	1	
<i>Cinclus cinclus</i>										4	5			1	2	1	1	3	2	1	1	0	1	2	2
TOTAL ESPECIES	5	6	9	6	9	7	8	7	9	8	7	7	8	6	6	8	9	7	5	6	7	8	7	7	
TOTAL CENSO	48	63	83	51	40	30	65	39	95	127	79	121	104	74	66	78	127	123	63	98	57	71	89	98	
Especies 1996-2015	12																								

ENCORO DE PENARRUBIA	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	1996 2000	2001 2005	2006 2010	2011 2015	
<i>Tachybaptus ruficollis</i>		5	2	2	4	2	3	2	7	8	6	11	12	17	11	5	14	10	16	8	3	4	11	11	
<i>Podiceps cristatus</i>	1	4	4	14	9	10	7	3	9	4	12	8	13	4	6	3	4	10	8	5	6	7	9	6	
<i>Phalacrocorax carbo</i>					33	5	4	16	6	14		9			14	56	69	83	81	148	7	9	5	87	
<i>Ardea cinerea</i>	6		1	4	2	4	1	3	4	1	6	8	6	2	2	7	8	5	1	4	3	3	5	5	
<i>Anas platyrhynchos</i>	21	9	5	173	9	46	8	15	67	7	28	23	109	29	63	24	16	114	57	96	43	29	50	61	
<i>Aythya ferina</i>				7	2																2	0	0	0	
<i>Aythya fuligula</i>		5	1	34	3				16												9	3	0	0	
<i>Fulica atra</i>		1		4		4	1	1													1	1	0	0	
<i>Actitis hypoleucos</i>																					0	0	0	0	
<i>Cinclus cinclus</i>												1						2			1	0	0	1	
TOTAL ESPECIES	3	5	5	7	7	6	6	6	6	5	4	6	4	4	7	5	5	6	5	6	5	6	5	5	
TOTAL CENSO	28	24	13	238	62	71	24	40	109	34	52	60	140	52	98	95	111	224	163	262	73	56	80	171	
Especies 1996-2015	10																								