Conditions and prospects for the development of ornithological tourism in Poland

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CONDITIONS AND PROSPECTS FOR THE DEVELOPMENT OF ORNITHOLOGICAL TOURISM IN POLAND

Abstract: The article describes the present condition and the development trends of ornithological tourism in Poland. A questionnaire survey, participant observation and interviews have produced a description of Polish bird-watchers and ornithological tourism organizers. A partial distribution of bird-watching sites and needs for development have also been described. Polish ornithological tourism is at an early development stage, however, as in other countries, a dynamic growth of interest in this activity is found.

Keywords: ornithological tourism, wetlands, Poland.

1. INTRODUCTION

Ornithological tourism is an important part of wildlife tourism (KOWALCZYK 2010) for several reasons. First, it has a wide spatial extent - observations can be made in every landscape zone and in different ecosystems. As well garden birds, more exotic field and forest species are interesting too. Secondly, bird-watching develops an eco-friendly attitude and often results in a serious engagement in nature protection. This is why ornithological tourism is often pointed out as one that not just can but should be undertaken in highly protected areas (BUSHELL & EAGLES 2007).

The importance of bird-watching as a tourism activity has systematically grown (CONNELL 2009, COLLINS-KREINER et al. 2013). The reason for this is believed to lie in the isolation of modern man from his ‘natural roots’. Attempts to get closer to nature during free time are a form of compensation for everyday life in a highly urbanized, technological environment (OCKER 2001, JANeczko & ANDERWALD 2011). Ornithological tourism has also gradually gained popularity in Poland however this requires further research (CZECHOWSKI et al. 2008, JANeczko & ANDERWALD 2011). The recognition of the diversity and the present state of ornithological tourism is a basic condition for its sustainability (meaning appropriate to the needs of both bird-watchers and the natural environment).

2. METHODS OF RESEARCH

Participant observation on bird-watching trips, interviews with organizers and a questionnaire survey have been used to describe who Polish bird-watchers are and the range of their interests. The study focuses on wetlands as, because of their great species diversity, they are the most attractive bird-watching areas in Poland. The spatial pattern of popular observation sites, the level of their development and response to the needs of users is described.

The quantitative data was obtained by questionnaire surveys from September 2011 to August 2012 directed at Poles interested in bird-watching regardless of age. The questionnaire was emailed to members of groups on Facebook: Polish Society for the Protection of Birds, Lublin Ornithological Society, ‘Kulig’ – Research Group on Water Birds, Radom Region Naturalists Club, Avestom – an internet portal on birds in the northern Podlasie region, ‘Drapolica’ – Society for Migratory Bird Observation, Opole Ornithology Group, ‘Salamandra’ – Polish Society for Nature Protection, ‘Unitis Viribus’ – Society of the friends of Słońsk, and the Warsaw Society for Bird Protection. 145 replies were obtained and another 85 respondents completed the questionnaire during ornithological meetings and bird-watching trips: a meeting of the Warsaw group of the Polish Society for Bird

3. WHO ARE BIRD-WATCHERS?

Relative to the total population of the country, there are few bird-watchers in Poland. One of the most popular ornithological societies – Polish Society for the Protection of Birds (OTOP) in 2013 had 4000 members (OTOP website). The number of those who support the society is much higher and is growing dynamically – based on Facebook it was estimated at 6000 in July 2013.

Bird-watchers can be classified depending on their experience and involvement; J.J. VASKE et al. (2001) has distinguished four types: ‘highly involved’, ‘creative’, ‘generalists’ and ‘occasionalists’. The high number of pro-ecological organizations and the growing interest in voluntary activity for environmental protection shows that most Polish bird-watchers are ‘highly involved’ or ‘creative’ (e.g. nature photographers). ‘Generalists’ and ‘occasionalists’ seem to be less numerous since bird-watching is still not a mainstream activity.

Bird-watchers are both male (60% of respondents) and female (40%) and their ages are mostly between 21 and 40 (63%), those over 40 are less numerous (32%) and the smallest group are children and teenagers (5%). These results differ from those obtained in the USA, according to DYWER (1993) and WILLIAMS & LA MONTAGNE (2001) bird-watchers are typically middle aged (45-65) or older. Data from Poland is similar to that from Turkey (CAKICI & HARMAN 2007), a country which, like Poland, has a young and still developing bird-watching market. Because ornithology is still gaining in popularity, half of respondents have been involved in bird-watching for less than 10 years (the other half for more). The record belongs to those members of the Polish Society for the Protection of Birds for whom bird-watching has been a hobby for more than 50 years.

Most bird-watchers live in big cities (more than 500 000 inhabitants – 43%) explaining the popularity of bird trips from Warsaw and Poznań, 24% live in towns from 100 000 to 500 000 inhabitants, while 13% come from settlements up to 10 000. The smallest groups are those from medium-sized towns 10-50 000 inhabitants – 12%, and 50-100 0000 – 8%.

73% have higher education and another 20% secondary level which is similar to results obtained in other countries (WILLIAMS & LA MONTAGNE 2001, SIMANGO 2011, CONNELL 2009). 60% have a degree related to natural sciences and their interest in bird-watching resulting from a general love of nature (58%), their degree (14%), and from family and social experience (8% each).

4. FORMS OF ORNITHOLOGICAL TOURISM

The most popular (49%) is the traditional form of bird-watching: observation, often followed by taking notes. At the same time, easier access to high quality equipment makes bird photography increasingly popular – 32%. Another form is listening and recording birds’ calls (7% of answers) with the most popular being the recording of males during the mating season. 5% film bird behavior.

As for duration, it is often limited to one-day trips – 64%; trips longer than three days are seldom taken (11%).

Every form of bird-watching has its own specific practice. Usually bird-watchers make their observations alone (80%), rarely in small groups, parties larger than 20 are almost nonexistent with the exception of trips where observation is just one among other attractions. Those who photograph or film are determined solitaries because time and frequency cannot be scheduled. Another disadvantage of taking photos in a group is the risk of disturbing the birds. Group observation is possible (and often pleasant from a social point of view) during spring and autumn migration where birds are often observed at a considerable distance.

5. ORGANISATION OF ORNITHOLOGICAL TOURISM

As stated above, bird-watchers prefer self-organized, solitary trips. However, they are keen to take a part in meetings – lectures, presentations etc, usually attended by up to 100 participants. Such events, usually organized by clubs, offer bird-watchers an opportunity to present and discuss their achieve-
6. POLISH WETLANDS AS AN ORNITHOLOGICAL TOURISM SPACE: RESPONSE ANALYSIS

Bird-watching is possible everywhere, but less transformed areas assure an experience of ‘getting closer to the nature’ (Connell 2009). In Poland these are forests, parts of some mountain areas and, above all, the wetlands (Janeczko & Anderwald 2011) that form 13% of the country (Swiańiewicz 2006). It should be noticed that a large part of wetland areas are not suitable for the development of common forms of tourism. Wetlands are often protected by law. Even if not, they deserve special management due to their environmental fragility.

According to the respondents two highly protected areas are the best for bird-watching: Biebrza National Park (12% of responses) and Ujście Warty National Park (9%). Both of them have been known as ornithological sites long before the establishment of formal protection. Biebrza National Park has 270 bird species (almost 70% of the Polish avifauna) including more than 180 nesting (Czachowski et al. 2008). Within Ujście Warty National Park 245 bird species have been recorded, including 160 nesting (Mądrawska & Wypychowska 2002). The valley of the River Barycz, and Siemianówka, Turawa, Nysa and Rakutów Lakes are also popular bird-watching areas. Narew National Park, Sobieszewo Island and Całowanie Marsh are well known likewise (Fig. 1).

Besides the most popular sites, 70 more wetlands were indicated as good for bird-watching. The majority

![Figure 1. Wetlands declared as visited in 2011 and 2012; more than one site could be indicated](Source: author)
Table 1. Regions with more than one attractive bird-watching area

<table>
<thead>
<tr>
<th>Region</th>
<th>Bird-watching area</th>
<th>Approx. number of observed species</th>
<th>Species listed in the annex to CE 79/409/EWG directive</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upper Narew Valley</td>
<td>Siemianówka Lake</td>
<td>281</td>
<td>176</td>
<td>One of Poland’s most important nesting areas for little crane, white-winged black tern, little tern, whiskered tern and black-headed gull. Important migration stop for Anseriformes and Charadriiformes</td>
</tr>
<tr>
<td></td>
<td>Narew National Park</td>
<td>230</td>
<td>45</td>
<td>One of the most important national refuges for great snipe, aquatic warbler, comorant, little crane and Montagu’s harrier</td>
</tr>
<tr>
<td>Upper Vistula Valley</td>
<td>Goczałkowice Lake</td>
<td>200</td>
<td>29</td>
<td>Migration stopover for great crested grebe, great white egret and shoveler, the most important nesting place for night heron</td>
</tr>
<tr>
<td></td>
<td>Zator Ponds</td>
<td>No data</td>
<td>16</td>
<td>One of the few nesting places for ferruginous duck</td>
</tr>
<tr>
<td>Middle Vistula Valley</td>
<td>Calowanie Marsh</td>
<td>109</td>
<td>19</td>
<td>An important regional site for Montagu’s harrier and comorant, migration stopover for big groups of grey lag and bean geese</td>
</tr>
<tr>
<td>Vistula Valley</td>
<td>Vistula Valley</td>
<td>300</td>
<td>22</td>
<td>Winter refuge for wetland species; up to 20,000 individuals</td>
</tr>
<tr>
<td>Warsaw Valley</td>
<td>Kampinos Forest</td>
<td>225</td>
<td>58</td>
<td>Important (national level) nesting area for black stork, spotted crane and corncrake</td>
</tr>
<tr>
<td></td>
<td>Confluence of Wkra, around Pomezchowek</td>
<td>60</td>
<td>No data</td>
<td>Important nesting area for corncrake and black-tailed godwit; significant migration stopover point</td>
</tr>
<tr>
<td>Vistula Spit</td>
<td>Sobieszewo Island</td>
<td>300</td>
<td>36</td>
<td>The most important site for Sandwich tern; nearly 100% of the national population</td>
</tr>
<tr>
<td></td>
<td>Vistula Lagoon</td>
<td>230</td>
<td>27</td>
<td>One of the biggest breeding colonies of cormorants in Europe (up to 11,500 pairs)</td>
</tr>
<tr>
<td>Otmuchów Depression</td>
<td>Nysa Lake</td>
<td>200</td>
<td>15</td>
<td>Marsh sandpiper observed during migration</td>
</tr>
<tr>
<td></td>
<td>Otmuchów Lake</td>
<td>215</td>
<td>27</td>
<td>Winter refuge for up to 3000 bean and white-fronted geese</td>
</tr>
<tr>
<td>Rożnów Foothills</td>
<td>Czchów Lake</td>
<td>160</td>
<td>No data</td>
<td>Species of natural river valleys, eg. kingfisher, common sandpiper; grey gull, Caspian gull, white-tailed eagle</td>
</tr>
<tr>
<td></td>
<td>Rożnów Lake</td>
<td>180</td>
<td>No data</td>
<td>Species of natural river valleys, eg. kingfisher, common sandpiper; grey gull, Caspian gull</td>
</tr>
</tbody>
</table>

(75%) of them are protected, mostly as Natura 2000 nature reserves. 25% are small and close to major cities, or are artificial reservoirs.

The spatial distribution of areas considered attractive for bird-watching has been analyzed using the survey data with natural regions (KONDRACKI (2000) – meso-regional level) being used as reference units. This regional division reflects the natural diversity at national level and has served as reference in tourism research (BARTKOWSKI 1986, KISTOWSKI & ŚLESZYNSKI 2010). The number of sites indicated by respondents as interesting has been recognized as an attractiveness indicator. The attractive areas are dispersed throughout the country (Fig 2.), reflecting the spatial diversity of natural regions including a high number of wetlands (including large river valleys). Table 1 lists the regions for which more than one bird-watching area was identified. It should be noticed that many of them are relatively close to big cities as accessibility is probably the second most important factor (after natural value) of judging the attractiveness of bird-watching areas.

7. THE ENVIRONMENTAL IMPACT OF BIRD-WATCHING

Bird-watchers are environmentally conscious and their environmental sensitivity is further developed thanks to their hobby. The respondents are aware of their impact on wildlife but they try to minimize it. Trampling, littering and noise has been mentioned as the most common negative impacts.

It should be underlined that bird-watching is often transformed from leisure to serious activity for the protection of birds and their habitats. Birdwatchers take part in a wide spectrum of environmental action and thanks to their passion they help to protect migration, nesting and rearing sites as well as natural vegetation. Bird-watchers’ activities can be divided in two main groups:

− monitoring of birds (counting, ringing, inventory of nesting);
− protective actions (looking after valuable bird areas, maintenance of nesting sites – for example hay making).

As a result of this, bird-watchers attempt to keep the environmental quality of visited areas high.

However, some threats are associated with mass ornithological tourism. Tourism pressure on local environmental conditions can threaten valuable ecosystems that deserve protection (POSKROBKO 2005). Large groups of tourists fascinated with landscape beauty and wanting to see a new bird may unconscio-

8. TOURISM INFRASTRUCTURE FOR ORNITHOLOGICAL TOURISM

A properly located and designed infrastructure can increase birdwatchers’ satisfaction and at the same time lower their environmental pressure. Sometimes its existence is the basic condition that makes bird-watching possible.

The most numerous and useful are watchtowers and platforms (Foto 1.). The towers are usually as much as several meters high while platforms are lower. Helpful in wetlands, they are also protection against trampling while they are often situated in open fields or at a forest border. Inside there are benches that make observation more comfortable.

Hides and walls also play an important role in bird-watching. Hides are usually enclosed and small, embedded in the landscape, from which bird-watchers can observe (responding to their needs), but at the same time limiting disturbance. Hides are equipped with benches and tables displaying the species that can be seen. Apart from permanent elements of tourism infrastructure such as hides home-built constructions exist as well.

Photo 1. Watchtower on the educational trail ‘Bird Paradise’, Sobieszewo Island (Photo by M. Kordowska)

Observation walls separate bird-watchers and birds, but they have no roof nor place to sit. They are quite popular abroad, for example in Spain, but the first in Poland was constructed in 2012 in the valley of River Barycz (Nasza Barycz – blisko przyrody website).
Rental services are also a part of the accompanying base for ornithological tourism, for instance boat or bike hire, and can additionally offer tents, binoculars, waders and other equipment (e.g. portable shelters). In Poland rental services based on bird-watching are almost non-existent while the survey revealed that interest in such an offer is moderate – 38% of respondents considered it necessary. However, one respondent recognized that such services could help to popularize bird-watching. Many people, especially the young, will be happy to gain new experience but they cannot invest in expensive equipment.

An important element of tourist infrastructure is transport. Bird-watchers prefer using cars to reach an observation area as its dimensions and weight allow it to move freely. Passengers form a small group who can be flexible with time while another advantage is that some bulky equipment can be stored in the car. This results in the necessity of providing an adequate number of parking places in the vicinity of bird-watching areas.

Ornithological educational trails are very useful for beginners. They can partly or completely double as tourist trails, or they can be marked separately. The trails are equipped with boards giving information on length, number of stops and level of difficulty, often a map is provided. For some trails dedicated guides are published; for example ‘The Bird Trail’ in Ujście Warty National Park or the educational trails in the Beka reserve (Marczewski & Błaszkowska, no publication date).

Information boards and signposts are placed alongside trails with information on interesting sites often placed there (e.g. watchtowers or hides). A code of conduct and basic information on flora and fauna are often displayed which are helpful for tourists who do not have a map of the visited area or are not able to name bird species. The boards can encourage ornithological observations from passers-by (Photo 2.). However, their number and dimension should not have a negative aesthetic influence or interfere with contact with nature.

The technical level of the transport and information infrastructure of Polish wetlands has been assessed as moderate to poor (70% of answers) while 30% perceive it as good or very good. Signposts and information boards are the most highly. Existing viewing platforms and watchtowers were assessed as moderate while hides were rated lower. This is probably caused by their scarcity and uneven distribution, limited mainly to highly protected areas. The technical state is poor because of the material used for construction and the lack of funds for renovation.

9. CONCLUSIONS

Ornithological tourism in Poland is increasing dynamically, but in comparison to the UK or USA it is still in an early stage of development. This is demonstrated by the relatively small level of the commercial offer, compared to the popularity of ornithological trips and other events organized by clubs such as the Polish Society for the Protection of Birds and similar local organizations which are attracting growing support.

Polish bird-watchers are relatively young and well educated which makes them opinion leaders and suggests further development of this form of tourism. This will take place in a variety of areas and according to a variety of interests.

Two types of bird-watching area can be distinguished based on the survey. The first are unique natural areas, usually highly protected and widely recognized as worth a visit (for example Biebrza National Park and Ujście Warty National Park). They are well prepared for environmental tourism and frequently visited, even if they are in remote locations. The second are areas located near the homes of birdwatchers irrespective of their natural value, infrastructure and level of protection. The key to their popularity is easy access. However, if this feature is accompanied by a high natural value, their popularity can extend beyond the local area (e.g. Sobieszewo Island near Gdańsk, or Całowanie Marsh near Warsaw).

Little research has been undertaken into ornithological tourism in Poland and mainly focusing on natural values which are best recognized and managed within highly protected areas, mainly in national parks. The conducted research shows that beside this demand is the most important factor for
bird-watching development. The majority of bird-watchers live in big cities and have to fit their hobby around daily duties. This corresponds to trends from other countries (e.g. USA – Weidensaul 2007). More detailed recognition of this would help to bring interests and environmental protection requirements together.

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