

## ENR 5.6 BIRD MIGRATION AND AREAS WITH SENSITIVE FAUNA

### 1 BIRD MIGRATION

#### 1.1 General

Birds migrate year-round in a broad front over the Netherlands, with dense migratory routes along the coastal region and the Dutch-German border. Birds also commute between sleeping/breeding and foraging sites all year round and in all regions of the Netherlands. Colliding with birds, especially large and or flocking ones, could jeopardize the safety of the aircraft, its crew and passengers.

#### 1.2 Spring migration

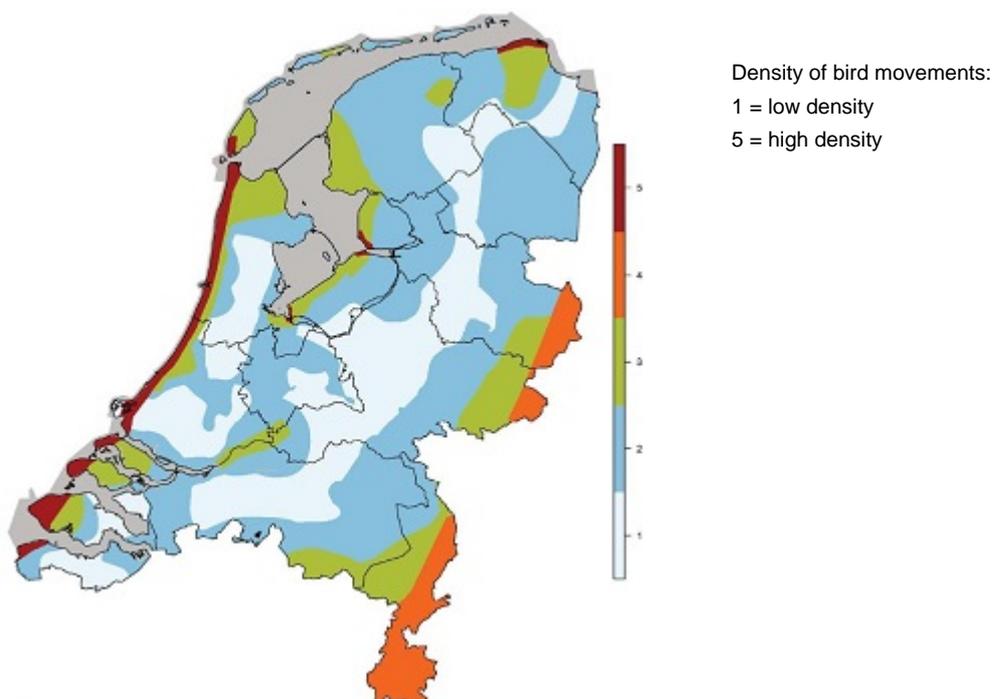
Spring migration takes place in the months March, April and May and peaks during strong SW/W winds. Migration is less likely during periods of rain.

#### 1.3 Autumn migration

Autumn migration takes place in the months mid-August, September, October and Mid-November and peaks during strong NE/E winds. Migration is less likely during periods of rain.

#### 1.4 Migration altitudes

High bird densities occur up to altitudes up to 6000 FT AGL during the night and 4000 FT AGL during the day. Local bird movements around sunrise and sunset occur up to altitudes of 1000 FT AGL.



#### 1.5 Bird migration forecast

The FlySafe Bird Avoidance Model (<https://www.flysafe-birdtam.eu>) provides near real-time and forecast information on large scale bird movements over Belgium, Germany and the Netherlands. The data are disseminated via BIRDTAMs (bird notice to airmen) to military pilots.

#### 1.6 Reporting of bird strikes

To achieve more comprehensive statistics of bird strikes, the Civil Aviation Administration is collecting information on bird strikes. All pilots on flights within Amsterdam FIR are therefore requested to report all cases of bird strikes or incidents where a risk of bird strike has been present. Information about the reporting process can be found on <https://www.ilent.nl/onderwerpen/voorvallen-luchtvaart>.

### 2 AREAS WITH SENSITIVE FAUNA

#### 2.1 General

Sensitive fauna are animals that are sensitive to disturbance by human activities like, among others, overflying aircraft:

- birds breeding in colonies;
- birds congregating in large flocks, and
- seals.

## 2.2 Minimum flight altitude

To avoid disturbing sensitive fauna, pilots are strongly advised not to cross areas with sensitive fauna below 1000 FT AGL. The areas with large flocks of birds and/or seals are depicted on chart ENR 6-5.3 and on aerodrome visual approach charts. In paragraph 3 all locations of these areas are listed by name, including the season and the minimum altitude to cross these areas.

## 2.3 Waddenzee

### 2.3.1 Minimum flight altitude

To protect the sensitive fauna in the Waddenzee, by Decree the following applies:

- motorised civil flights below 1500 FT AGL are prohibited;
- when ceiling < 1500 FT AGL or flight visibility < 8 KM, flights between 1000 FT AGL and 1500 FT AGL are allowed within the corridors depicted on chart ENR 6-5.3.

These altitude restrictions do not apply to:

- that part of the flight necessary to depart from or land at an aerodrome, as well as the part necessary to follow a prescribed traffic pattern and/or departure or arrival procedure;
- flights in an emergency situation;
- helicopters encountering icing-conditions, and
- the following special flights:
  - search and rescue as well as HEMS operations;
  - inspection flights or flights in pursuit;
  - pipeline control flights;
  - power lines control flights;
  - survey flights in the interest of public health, supervision or science;
  - flights for shooting films or taking photographs, in the interest of news provision and or public relations.

**Note:** the above-mentioned flights are only exempted if they are executed by companies/bodies or pilots formally authorized for these activities.

### 2.3.2 Application for permits

For flights below 1500 FT AGL in the Waddenzee area, two permits are required:

- A low flying permit can be applied for at:  
<https://www.ilent.nl/documenten/formulieren/2015/01/20/formulier-aanvraag-ontheffing-op-besluit-luchtverkeer-2014>
- A permit under the Nature Conservation Act can be applied from the province where the flight is planned (if the flight is planned above the entire Waddenzee area, Friesland will coordinate the request).
  - Friesland, by email: [wnb@fryslan.frl](mailto:wnb@fryslan.frl)
  - Groningen, by email: [loketVTH@provinciegroningen.nl](mailto:loketVTH@provinciegroningen.nl)
  - Noord-Holland, by digital form:  
[https://www.odhjn.nl/Menu/Natuur/Gebiedsbescherming/Melding\\_of\\_vergunning/Formulieren/Meldingsformulier\\_start\\_werkzaamheden\\_gebieden](https://www.odhjn.nl/Menu/Natuur/Gebiedsbescherming/Melding_of_vergunning/Formulieren/Meldingsformulier_start_werkzaamheden_gebieden)

## 2.4 Zeeland Delta

In view of the protection of the sensitive fauna in the Zeeland Delta, flights above the following areas are prohibited below 1000 FT AGL:

- Grevelingen;
- Haringvliet;
- Hollands Diep;
- Oosterschelde;
- Veerse Meer;
- Westerschelde & Saeftinghe.

## 3 AREAS WITH SENSITIVE FAUNA

NR	Location	Season		Remarks
		Birds	Seals	
1	2	3	4	5
1	Abtskolk & De Putten	W	-	<sup>1)</sup>
2	Alde Feanen	Y	-	<sup>1)</sup>
3	Arkemheen	W	-	<sup>1)</sup>
4	Bargerveen	W	-	<sup>1)</sup>
5	Biesbosch	Y	-	<sup>1)</sup>
6	Boezems Kinderdijk	S	-	<sup>1)</sup>
7	De Wieden	Y	-	<sup>1)</sup>
8	De Wilck	W	-	<sup>1)</sup>
9	Deelen	Y	-	<sup>1)</sup>
10	Deurnsche Peel & Mariapeel	W	-	<sup>1)</sup>
11	Donkse Laagten	W	-	<sup>1)</sup>
		S = summer: APR-SEP. W = winter: OCT-MAR. Y = year-round.		<sup>1)</sup> Strongly advised not to cross below 1000 FT AGL.

NR	Location	Season		Remarks
		Birds	Seals	
1	2	3	4	5
12	Duinen en Lage Land Texel	S	Y	<sup>1)</sup>
13	Duinen Goeree & Kwade Hoek	W	Y	<sup>1)</sup>
14	Duinen Terschelling	S	Y	<sup>1)</sup>
15	Duinen Vlieland	S	Y	<sup>1)</sup>
16	Dwingelderveld	W	-	<sup>1)</sup>
17	Eemmeer & Gooimeer Zuidoever	Y	-	<sup>1)</sup>
18	Engbertsdijksvenen	W	-	<sup>1)</sup>
19	Fochteloërveen	W	-	<sup>1)</sup>
20	Grevelingen	Y	Y	Prohibited to cross below 1000 FT AGL.
21	Groote Peel	W	-	<sup>1)</sup>
22	Groote Wielen	W	-	<sup>1)</sup>
23	Haringvliet	Y	-	Prohibited to cross below 1000 FT AGL.
24	Hollands Diep	Y	-	Prohibited to cross below 1000 FT AGL.
25	IJsselmeer	Y	-	<sup>1)</sup>
26	Ilperveld, Varkensland, Oostzanerveld & Twiske	Y	-	<sup>1)</sup>
27	Kampina & Oisterwijkse Vennen	W	-	<sup>1)</sup>
28	Ketelmeer & Vossemeer	W	-	<sup>1)</sup>
29	Krammer-Volkerak	Y	-	<sup>1)</sup>
30	Lauwersmeer	Y	-	<sup>1)</sup>
31	Leekstermeergebied	W	-	<sup>1)</sup>
32	Lepelaarplassen	Y	-	<sup>1)</sup>
33	Markermeer & IJmeer	Y	-	<sup>1)</sup>
34	Markiezaat	Y	-	<sup>1)</sup>
35	Naardermeer	Y	-	<sup>1)</sup>
36	Nieuwkoopse Plassen & De Haeck	Y	-	<sup>1)</sup>
37	Noordzeekustzone	S	Y	<sup>1)</sup>
38	Oostelijke Vechtplassen	Y	-	<sup>1)</sup>
39	Oosterschelde	Y	Y	Prohibited to cross below 1000 FT AGL.
40	Oostvaardersplassen	Y	-	<sup>1)</sup>
41	Oudegaasterbrekken, Fluessen en omgeving	W	-	<sup>1)</sup>
42	Oudeland van Strijen	W	-	<sup>1)</sup>
43	Polder Zeevang	W	-	<sup>1)</sup>
44	Rijntakken	Y	-	<sup>1)</sup>
45	Sneekermeergebied	W	-	<sup>1)</sup>
46	Uiterwaarden Zwarte Water en Vecht	W	-	<sup>1)</sup>
47	Van Oordt's Mersken	W	-	<sup>1)</sup>
48	Veerse Meer	Y	-	Prohibited to cross below 1000 FT AGL.
49	Veluwerandmeren	W	-	<sup>1)</sup>
50	Voordelta	-	Y	<sup>1)</sup>
51	Voornes Duin	S	-	<sup>1)</sup>
52	Waddenzee	Y	Y	Prohibited to cross below 1500 FT AGL.
53	Weerribben	S	-	<sup>1)</sup>
54	Westerschelde & Saeftinghe	Y	Y	Prohibited to cross below 1000 FT AGL.
55	Witte en Zwarte Brekken	W	-	<sup>1)</sup>
56	Yerseke en Kapelse Moer	W	-	<sup>1)</sup>
57	Zoommeer	Y	-	<sup>1)</sup>
58	Zouweboezem	S	-	<sup>1)</sup>
59	Zuidlaardermeergebied	W	-	<sup>1)</sup>
60	Zwarte Meer	Y	-	<sup>1)</sup>
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