

Airport Wildlife Hazard Management (AWHM)



by





BTEE SA: Who are we ?

+ 30 years-old private Ltd company from **Switzerland**





BTEE SA: Who are we ?

+ 25 years experience in Wildlife Management

Wildlife Control at GVA Airport from 2005 to 2023



UNITE PPA

GENEVE
AÉROPORT

Our domains:

- ✓ Environment
- ✓ Safety
- ✓ Airport



BTEE SA: Who are we ?

+ 25 years experience & know-how in:
Providing expertise & training @ +250 airports around the globe over the years

Developing tools & application and even more to support other airports

Multiple certifications training center



Ongoing risk analysis with AWHM

Airport Wildlife Hazard Management



Username

IATA.XXX

Password

[Password forgotten?](#)

LOG IN

Ongoing risk analysis with AWHM



Observations of wildlife and interventions

Wildlife observation within airport perimeter



Aircraft - wildlife collisions

Collisions between wildlife and aircraft



Events Log

Daily events



Weapons

Weapon maintenance



Ammunition inventory

Stocks manual adjustment in case of non-intervention use

✓ **Online application**

✓ **No installation required**



Environment and works

Airport environment modifications



Specific intervention report





Specific intervention report



Tasks


List of tasks to be completed other than daily log of reports

AWHM : Observations captured «live» onsite


<div>  <div>11/12/22, 12:00 AM to 11:59 PM</div> <div>   </div> </div>						
<div> <div>NEW OBSERVATION</div> <div>Wildlife observation and interventions</div> <div>  <div> <div>NO OBSERVATION</div> <div>NEW OBSERVATION</div> </div> </div> </div>						
Species						
Common Buzzard <i>Buteo buteo</i>	Time LT	Sector	Outside perimeter	Agent	Intervention(s)	
1	5:24 PM	G22	No	Michel Glorieux	-	>
	9:16 AM	F16	No	Michel Glorieux		
House Sparrow <i>Passer domesticus</i>	Time LT	Sector	Outside perimeter	Agent	Intervention(s)	
20	9:53 AM	H21	No	Michel Glorieux	-	
Pigeons (generic) <i>Columbidae</i>	Time LT	Sector	Outside perimeter	Agent	Intervention(s)	
20	9:25 AM	I15	No	Michel Glorieux	-	
Rook <i>Corvus frugilegus</i>	Time LT	Sector	Outside perimeter	Agent	Intervention(s)	
4	9:08 AM	G8	No	Michel Glorieux	-	
Black Redstart <i>Phoenicurus ochruros</i>	Time LT	Sector	Outside perimeter	Agent	Intervention(s)	
1	9:01 AM	E7	No	Michel Glorieux	-	



AWHM: Interventions (scaring and culling)







11/18/22



DETAILS OF OBSERVATION

Wildlife observation and interventions





NEW OCCURRENCE

Number	Class	Species
35	Birds	Corvids (generic) (Corvus)

11/18/22, 4:34 PM

Modify - New intervention

GENERAL INFORMATION

Reference

OBS22322-34

Agent

Alaric Glorieux

Behaviour

En vol

WEATHER AND LOCATION

Sector

G19

QFU runway(s) in use

22

Outside perimeter

No

Weather (cloud cover)

Mostly sunny, some clouds

Luminosity

Day

INTERVENTION(S)

Time LT	Vehicle(s)	Means of intervention	Effectiveness (the specie escape to)
4:34 PM	HERON 1	Efoitech embarqué	Leave critical area

11/18/22, 3:45 PM

Modify - New intervention

GENERAL INFORMATION

Reference

OBS22322-34

Agent

Alaric Glorieux

Behaviour

Au sol

WEATHER AND LOCATION

Sector

G17

QFU runway(s) in use

22

Outside perimeter

No

Weather (cloud cover)

Mostly sunny, some clouds

Luminosity

Day



AWHM: Aircraft-Wildlife Collisions: Data Capture



COL22190-03/83 7/9/22 4:07 PM



DETAIL OF AIRCRAFT - WILDLIFE COLLISION

Aircraft - wildlife collision



Number of individuals observed	Number of individuals involved	Class	Species
-	1	Birds	Common Buzzard (Buteo buteo)

7/9/22, 4:07 PM

GENERAL INFORMATION

Agent	Airline report
Alaric Glorieux	No
≤ 500 feet	Altitude/flight level
Yes	-
Reference	Status
COL22190-03/83	Confirmed
Pilot advised of birds	
-	

LOCALISATION

Grid pattern	QFU runway(s) in use
F14	04
Latitude	Longitude
46.238397	6.109491

STATUS AND DESTINATION OF WILDLIFE

Status
Dead
Destination
Freezer

AERONAUTICAL DATA

Airline code	Aircraft type
EMIRATES	BOEING B777-300 (B773)
Flight No.	Registration
EK090	A6EQM
Flight phase	Flight status
Take-off	No consequence
Aircraft speed	
-	
Aircraft parts struck	
Other/Unidentified	
Parts of the aircraft damaged	
-	



AWHM: Daily events log

Type of event

☐ Part of annual report

Start time

--:--

End time

--:--

Event

Select...

Description of event

Main runway (3700 x 50) Concrete

☐ 24

☐ 06

Grass runway (850 x 35)

☐ 05

☐ 23

NEW EVENT

[Events Log](#)

Type of event

☐ Part of annual report

Start time

09:00

End time

12:00

Event

Select...

Select...

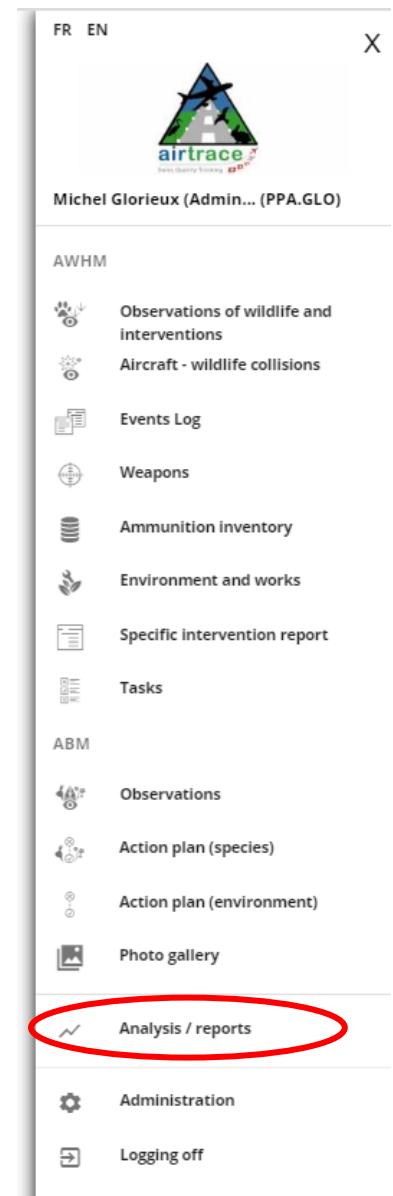
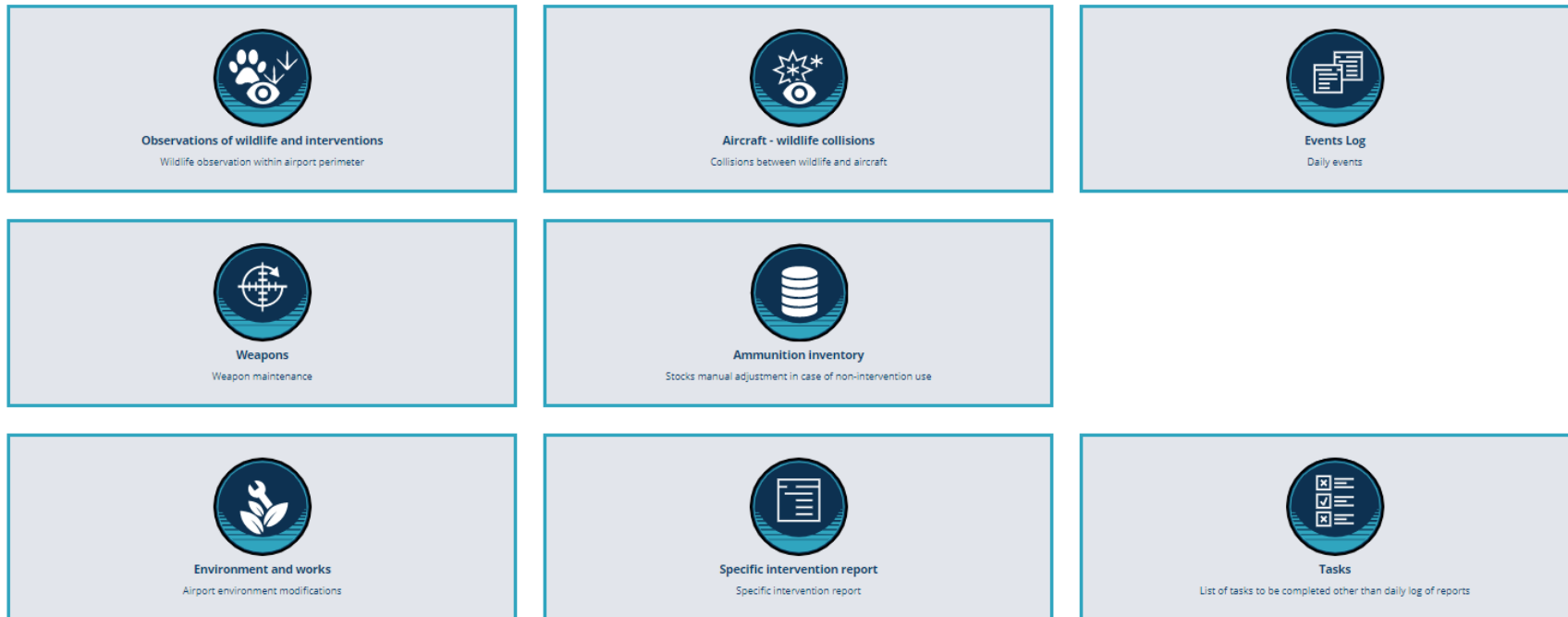
- Call from APRON
- Call from TWR/ATC
- Daily Patrol
- Fence inspection
- Nesting monitoring
- Remains Management (freezer)
- Runway inspection
- Runway inspection following suspected strike
- Training session
- Visite SPRA

☐ 06



AWHM: Analysis / reports:

A gift for Wildlife Hazard Managers, CAA's, etc.



AWHM: Wildlife observation: Extraction, Report and Maps

PPA

AWHM

Wildlife observation

Extraction

Report

Maps

Ammunition

Weapon

Aircraft-wildlife collisions

Report of specif. intervent.

Events Log

Environment and works

Tasks

ABM

Reports

MANIRA-Airport *

MANIRA-Airport *

Wildlife observation and interventions

Extraction

Search

Reference

Agent

Select...

Search

Extraction of raw data (10 Result(s))

Origin of the data

☐ Full list of observations

☐ Species per day

☐ Species per period of time

☐ Species per sector

☐ Detail of the interventions

Species	Species (Latin)	Number	Date	Time	Weather (cloud cover)	Light	Grid Pattern
Corvids (generic)	Corvus	50	11/22/22	4:33 PM	Very cloudy	Day	G8
Corvids (generic)	Corvus	50	11/22/22	4:07 PM	Very cloudy	Day	G8
Eurasian (Common) Kestrel	Falco tinnunculus	1	11/22/22	4:01 PM	Very cloudy	Day	D13
Common Buzzard	Buteo buteo	1	11/22/22	4:00 PM	Very cloudy	Day	D13
Common Buzzard	Buteo buteo	1	11/22/22	3:57 PM	Very cloudy	Day	E26
Corvids (generic)	Corvus	15	11/22/22	3:54 PM	Mostly sunny, some	Day	G13
Corvids (generic)	Corvus	40	11/22/22	3:28 PM	Very cloudy	Day	F23
Corvids (generic)	Corvus	15	11/22/22	3:26 PM	Mostly sunny, some	Day	G12
Eurasian (Common) Kestrel	Falco tinnunculus	1	11/22/22	2:50 PM	Very cloudy	Day	G22
Corvids (generic)	Corvus	40	11/22/22	2:47 PM	Very cloudy	Day	F21
Corvids (generic)	Corvus	40	11/22/22	2:16 PM	Very cloudy	Day	G22
Eurasian (Common) Kestrel	Falco tinnunculus	1	11/22/22	2:01 PM	Very cloudy	Day	E15
Eurasian (Common) Kestrel	Falco tinnunculus	1	11/22/22	1:56 PM	Very cloudy	Day	G22
Eurasian (Common) Kestrel	Falco tinnunculus	1	11/22/22	1:51 PM	Very cloudy	Day	G9
Common Wood Pigeon	Columba palumbus	7	11/22/22	1:51 PM	Very cloudy	Day	G9

AWHM: Wildlife observation: Extraction, Reports and Maps:

PPA

Wildlife observation and interventions Reports

AWHM

Wildlife observation

Extraction

Report

Maps

Ammunition

Weapon

Aircraft-wildlife collisions

Report of specif. intervent.

Events Log

Environment and works

Tasks

ABM

Reports

MANIRA-Airport *

MANIRA-Airport *

Reports

Type

Select...

Year/start year

Select...

Year/end year

Select...

Reports

☐ Daily observations per individual and per time slot (including all species)

☐ Number of species observed per month (including all species)

☐ Daily observation per month and per species

☐ Daily observations per species and per time slot

☐ Number of individuals observed per month (including all species)

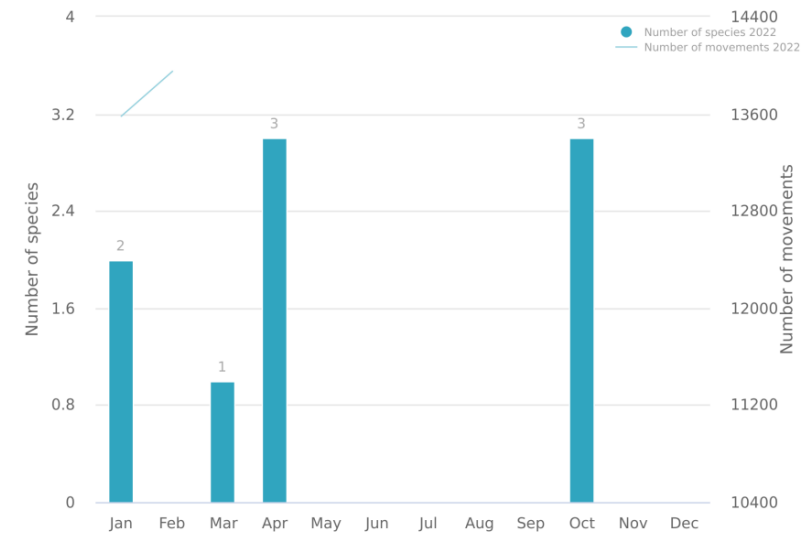
☐ Daily observations per individual and per month (including all species)

Downloads

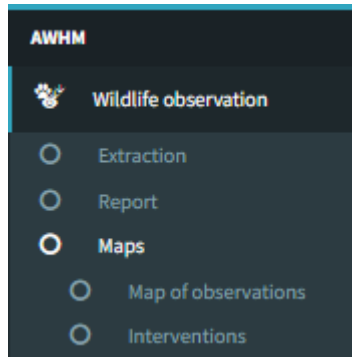
Date	Type	Year/start year	Year/end year
11/18/22, 5:39 PM	A single year	2022	2022
4/26/22, 3:07 PM	A single year	2022	2022
4/26/22, 3:07 PM	A single year	2022	2022



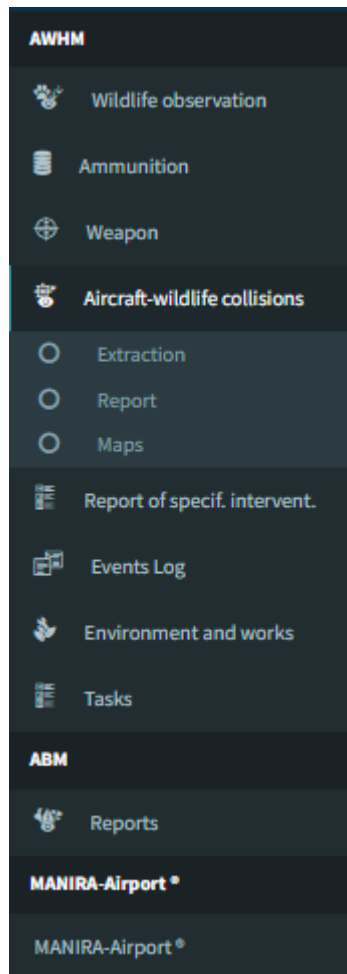
WILDLIFE OBSERVATIONS AND INTERVENTIONS AWHM



AWHM: Wildlife observation: Extraction, Reports and Maps



AWHM: Aircraft-wildlife collisions: Extraction, Reports and Maps:



Aircraft-wildlife collisions Extraction

Search

Grid pattern
Select...

Keyword
Search

Extraction of raw data (7 Result(s))

Origin of the data

- ☐ List of wildlife/aircraft impacts

Faunistic data (collisions ≤ 500 feet and shock confirmed)

- ☐ Strikes per species (all categories)
- ☐ Strikes per species (risk cat. 1, 2 and mammal)
- ☐ Strikes per species and month

Periodic data (collisions ≤ 500 feet and shock confirmed)

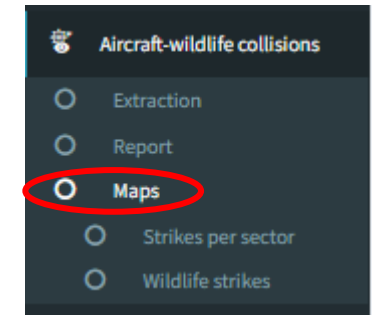
- ☐ Wildlife strikes per month
- ☐ Monthly movements
- ☐ Cumulative monthly movements
- ☐ Strikes according to time of day
- ☐ Wildlife strikes according to luminosity
- ☐ Wildlife strikes according to nebulosity

Aeronautical data (collisions ≤ 500 feet and shock confirmed)


- ☐ Strikes per phase of flight
- ☐ Wildlife strikes per aircraft type
- ☐ Parts of aircraft affected
- ☐ Parts of aircraft damaged
- ☐ Impact on the flight

Reports

- List of collisions
- Number of collisions per month
- Strikes per annum
- Strikes according to weather conditions (cloud cover)
- Strikes per species
- Cumulative species strikes
- Strikes per hour (UTC)
- Shock according to the luminosity
- Strikes per flight phase
- Strikes per parts affected
- Strikes according to the consequences for the flight
- Strikes per aircraft type
- Total number of strikes per 10,000 movements
- Collisions and total number of collisions for 10,000 movements




AWHM : Aircraft-Wildlife Collisions: Reports



AIRCRAFT-WILDLIFE COLLISIONS

COL22190-03/83

7/9/22, 4:07 PM



Number of individuals observed

Number of individuals involved

-

1

Class

Species

Birds

Common Buzzard (Buteo buteo)

4:07 PM

GENERAL INFORMATION

Agent

Alaric Glorieux

Airline report

No

≤ 500 feet

Altitude/flight level

Yes

-

Reference

COL22190-03/83

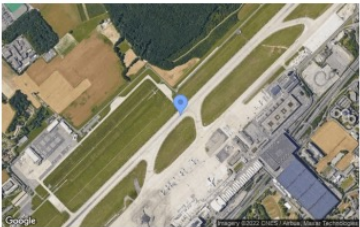
Status


Confirmed

Pilot advised of birds

-

LOCATION






AIRCRAFT-WILDLIFE COLLISIONS

COL22190-03/83

7/9/22, 4:07 PM



Grid pattern

QFU runway(s) in use

F14

04

Latitude

Longitude

46.238397

6.109491

AERONAUTICAL DATA

Airline code

EMIRATES

Aircraft type

BOEING B777-300 (B773)

Flight No.

EK090

Registration

A6EQM

Flight phase

Take-off

Flight status

No consequence

Aircraft speed

-

Aircraft parts struck

Other/Unidentified

Parts of the aircraft damaged

-

STATUS AND DESTINATION OF WILDLIFE

Status

Dead

Destination

Freezer

METEOROLOGICAL DATA

Luminosity

Day

Weather (cloud cover)

Mostly sunny, some clouds

Wind

No wind


REQUESTED BY




COLLISIONS AÉRONEF-FAUNE

COL18060-01/3

02/03/2018 12:49



IMAGES



Collisions aéronef-faune

COL18060-01/3

Airport Wildlife Hazard Management

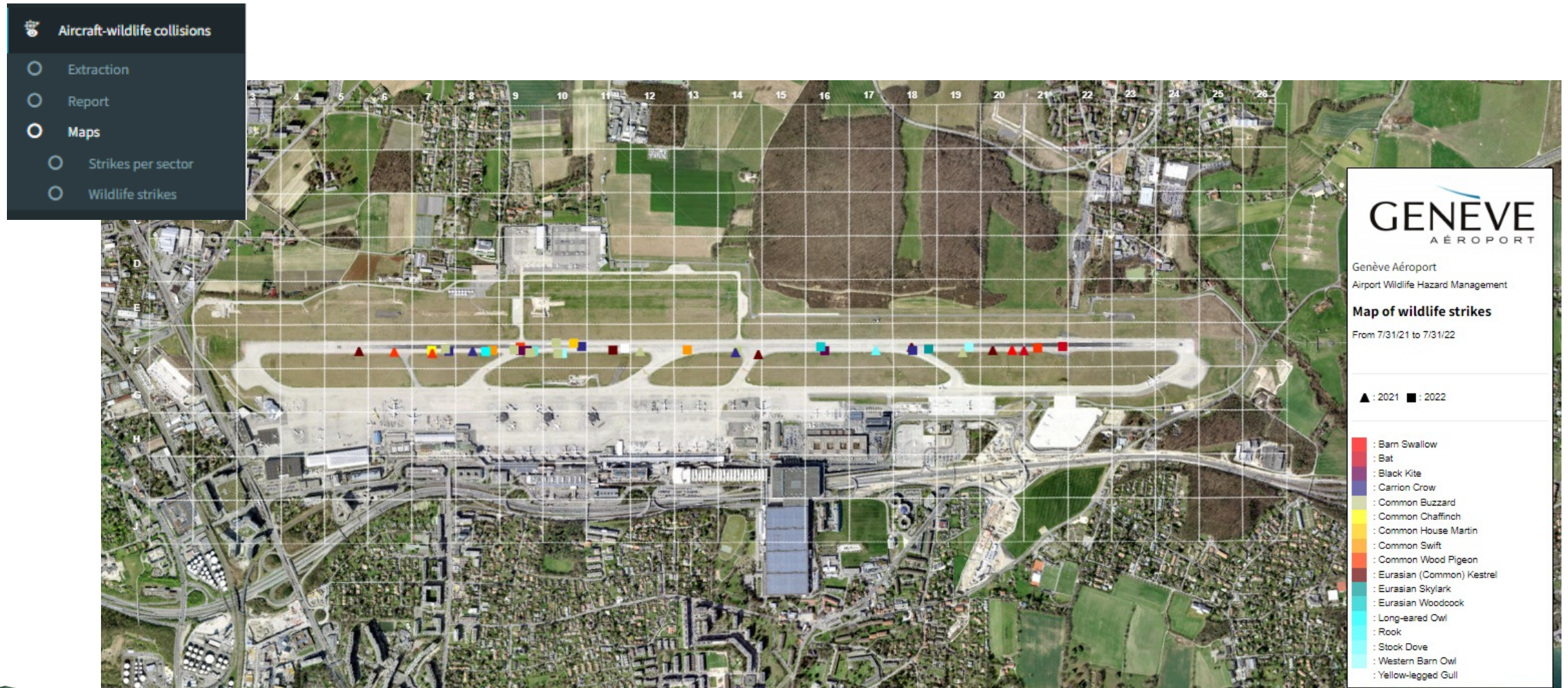
16/03/2018

PAGE 3 / 3

READY for
ECCAIRS data
transmission



AWHM : Extraction, Reports and Maps: Aircraft-wildlife collisions



AWHM: Weapons Management

PPA

AWHM

Wildlife observation

Ammunition

Weapon

Aircraft-wildlife collisions

Report of specif. intervent.

Events Log

Environment and works

Tasks

ABM

Reports

MANIRA-Airport®

MANIRA-Airport®

Weapons Extraction

Search

Start date

Search

Extraction of raw data

Weapon maintenance routine list

Realtime control of
your ammunition
stock



AWHM: Environment & Works Management

PPA

AWHM

- Wildlife observation
- Ammunition
- Weapon
- Aircraft-wildlife collisions
- Report of specif. intervent.
- Events Log
- Environment and works**
- Tasks

ABM

- Reports

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Environment and works Extraction

Search

Start date

End date

Keyword

Type of work

Search

Extraction of raw data (3 Result(s))

☐ List of changes to the environment & works



AWHM: Task Management

PPA

AWHM

- Wildlife observation
- Ammunition
- Weapon
- Aircraft-wildlife collisions
- Report of specif. intervent.
- Events Log
- Environment and works
- Tasks**

ABM

- Reports

MANIRA-Airport®

- MANIRA-Airport®

Tasks Extraction

Search

☐ Completed

Start date

Keyword

Individual in charge

Select...

Search

Extraction of raw data (35 Result(s))

All the data

☐ List of tasks



AWHM: Indicative wildlife strike risk assessment methodology for an airport: MANIRA ® - Airport

AWHM

- Wildlife observation
- Ammunition
- Weapon
- Aircraft-wildlife collisions
- Report of specif. intervent.
- Events Log
- Environment and works
- Tasks

ABM

- Reports

MANIRA-Airport ®

- MANIRA-Airport ®

MANIRA-Airport ®

- MANIRA-Airport ®

MANIRA-Airport ® Extraction

Search

Start date

01-2022

End date

08-2022

Search

Extraction of raw data

Gravity of damage per species

- ☐ Gravity of damage per species present at airport

Wildlife danger scale per species

- ☐ Wildlife danger scale

Indicative level of wildlife danger per airport

- ☐ Wildlife danger matrix
- ☐ Indicative level of danger at airport

Level of risk based on the consolidated gravity of damage (G)

Level of risk based on consolidation of gravity (G): **III (Moderate animal risk)**

Indicative level of risk of probability of wildlife collisions (P)

Number of movements: **109'486**

Number of collisions (≤ 500 feet): **43**

Number of wildlife collisions/10,000 movements: **3.93**

Probability of occurrence after consolidation (P): **C (Occasional)**

Download



AWHM: Indicative wildlife strike risk assessment methodology for an airport: MANIRA ® - Airport

Gravity of damage per species present at airport

Time-Related Data 1/1/22 au 8/31/22

							Reference for analysis				
						Presence index	Single Individual				
ID	Name	Latin Name	Family	Average weight [kg]	Average wingspan [m]	Probability of occurrence (p)	F1 [N] V1: 100 knots (185 km/h) Decision Speed	Fr [N] Vr: 135 knots (250 km/h) Rotation Speed	F2 [N] V2: 150 knots (279 km/h) Initial climb speed	Flocking birds [No. of individuals]	Gravity of damage (g)
1	Bat	Chiropterae	Mammalia	0.004	0.2	Uncommon	53	96	120	-	Very low
2	Eurasian Skylark	Alauda arvensis	Alaudidae	0.039	0.35	Very common	294	537	669	-	Very low
3	Eurasian Woodcock	Scolopax rusticola	Scolopacidae	0.42	0.65	Rare	1707	3112	3881	-	Medium
4	Grey Wagtail	Motacilla cinerea	Motacillidae	0.022	0.29	Rare	200	365	456	-	Very low
5	White Wagtail	Motacilla alba	Motacillidae	0.023	0.31	Very common	196	357	446	-	Very low
6	Motacilla flava	Motacilla flava	Motacillidae	0.023	0.28	Uncommon	217	396	493	3	Very low
7	Yellowhammer	Emberiza citrinella	Emberizidae	0.021	0.26	Rare	213	389	485	3	Very low
8	Corn Bunting	Emberiza calandra	Emberizidae	0.0465	0.32	Rare	384	700	873	-	Very low
9	Common Buzzard	Buteo buteo	Accipitridae	1	1.13	Very common	2338	4262	5315	-	Serious
10	Mallard	Anas platyrhynchos	Anatidae	1.4	1	Occasional	3699	6743	8409	2	Very serious
11	European Goldfinch	Carduelis carduelis	Fringillidae	0.016	0.25	Common	169	308	384	3	Very low
12	White Stork	Ciconia ciconia	Ciconiidae	3.25	2.17	Uncommon	3957	7213	8996	34	Very serious
13	Rook	Corvus frugilegus	Corvidae	0.52	0.94	Very common	1462	2664	3323	9	Very serious

AWHM: Indicative wildlife strike risk assessment methodology for an airport: MANIRA ® - Airport

Wildlife danger scale

Time Related Data: 1/1/22 au 8/31/22

ID	Name	Latin name	Average weight [kg]	Average wingspan [m]	Probability of occurrence (p)	Evaluation of danger per species (D)
1	Bat	Chiropterae	0.004	0.2	Uncommon	Minor
2	Eurasian Skylark	Alauda arvensis	0.039	0.35	Very common	Minor
3	Eurasian Woodcock	Scolopax rusticola	0.42	0.65	Rare	Medium
4	Grey Wagtail	Motacilla cinerea	0.022	0.29	Rare	Minor
5	White Wagtail	Motacilla alba	0.023	0.31	Very common	Minor
6	Motacilla flava	Motacilla flava	0.023	0.28	Uncommon	Minor
7	Yellowhammer	Emberiza citrinella	0.021	0.26	Rare	Minor
8	Corn Bunting	Emberiza calandra	0.0465	0.32	Rare	Minor
9	Common Buzzard	Buteo buteo	1	1.13	Very common	Major
10	Mallard	Anas platyrhynchos	1.4	1	Occasional	Major
11	European Goldfinch	Carduelis carduelis	0.016	0.25	Common	Minor
12	White Stork	Ciconia ciconia	3.25	2.17	Uncommon	Major
13	Rook	Corvus frugilegus	0.52	0.94	Very common	Major
14	Carrion Crow	Corvus corone	0.525	1	Very common	Major
15	Corvids (generic)	Corvus	0.525	1	Very common	Major
16	Western Barn Owl	Tyto alba	0.57	0.95	Uncommon	Medium

AWHM: Indicative wildlife strike risk assessment methodology for an airport: MANIRA® - Airport

Airport Birdville Airport
Time-Related Data 1/1/22 8/31/22
Individual Responsible for Analysis GLO
Risk Matrix: Evaluation of danger per species (D)

Probability of occurrence (p)						
E	Rare	70	20, 26, 73	3	17, 27, 28, 30	4, 7, 8, 25, 35, 36, 44, 47, 59, 66, 67, 68, 75,
D	Infrequent	12, 24, 46, 72, 74		16, 42, 49	22, 45, 65	1, 6, 21, 32, 39, 48, 56, 57, 60
C	Occasional	10, 71		53	34, 58	62
B	Frequent	69, 76	55	23, 29, 52	31, 38, 50	11, 37, 40, 63, 64
A	Very frequent	13, 15	9, 54	14, 18, 41	19	2, 5, 33, 43, 51, 61
		Very Serious	Serious	Moderate	Low	Very Low
		I	II	III	IV	V
		Seriousness of damage (g)				

Remark: The number listed in the "ID" column of the table of species is reused in the matrix.

Zones of danger

	Species posing a major danger	Implement passive measures and deal with the remaining risk using active measures throughout the
	Species posing a moderate danger	Implement passive measures and deal with the remaining risk using active measures as periodically required.
	Species posing a minor danger	Implement passive measures and deal with any residual risk using active measures.

MANIRA-Airport® Indicative wildlife strike risk assessment methodology for an airport

© by BTEE SA

ID	Name
1	Bat
2	Eurasian Skylark
3	Eurasian Woodcock
4	Grey Wagtail
5	White Wagtail
6	Motacilla flava
7	Yellowhammer
8	Corn Bunting
9	Common Buzzard
10	Mallard
11	European Goldfinch
12	White Stork
13	Rook
14	Carrion Crow

AWHM: Indicative wildlife strike risk assessment methodology for an airport: MANIRA® - Airport

Airport
Time-Related Data
Individual Responsible for Analysis

Birdville Airport
01/01/2022 31/08/2022
GLO

Indicative level of wildlife strike risk at airport (R)

Probability of occurrence (P)						
E	Rare					
D	Infrequent					
C	Occasional			X		
B	Frequent					
A	Very frequent					
		High wildlife strike risk	Moderate to high wildlife strike risk	Moderate wildlife strike risk	Moderate to low wildlife strike risk	Low wildlife strike risk
		I	II	III	IV	V
		Level of strike risk based on the consolidated gravity of the damage (G)				

risk category

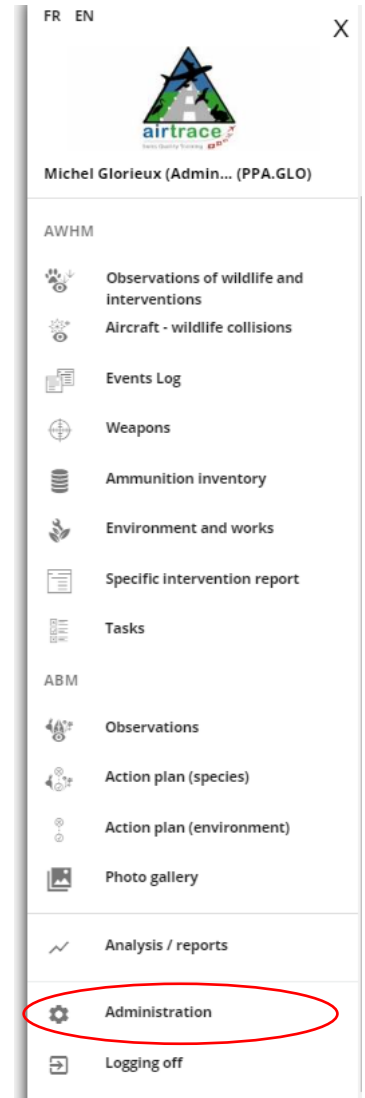
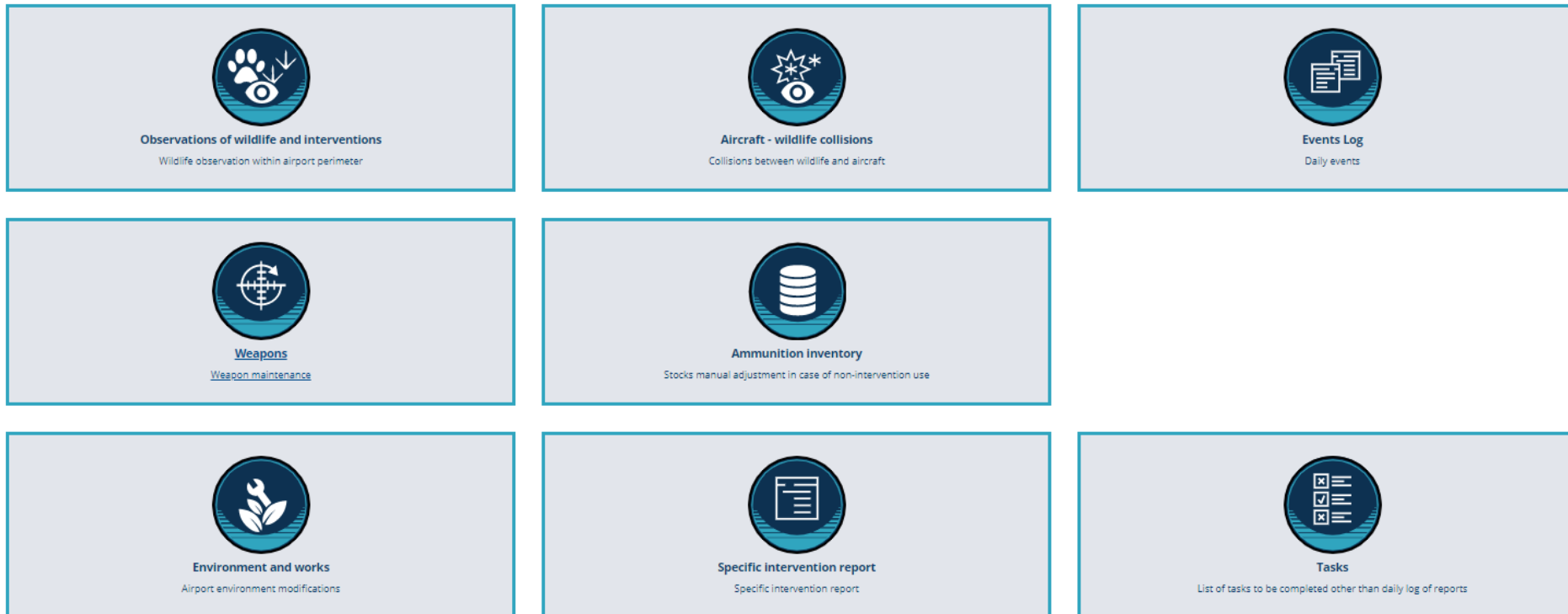
	High wildlife strike risk	Implement a wildlife control programme with passive measures and deal with the remaining risk using suitable active means and clearly defined intervention methodologies. Hourly animal risk prevention coverage must be implemented on a permanent basis by intervening according to the risk involved.
	Moderate wildlife strike risk	
	Low wildlife strike risk	Implement a wildlife control programme with passive measures and deal with the remaining risk using suitable active means and clearly defined intervention methodologies. The hourly coverage of animal risk prevention can be adapted to aeronautical operations always linked to the risk

MANIRA-Airport® Indicative wildlife strike risk assessment methodology for an airport
© by BTEE SA



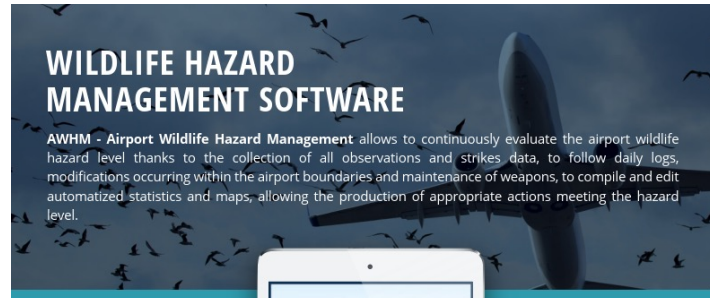
Administration: Local Application Manager

Local settings considered in AWHM



AWHM: THE AFFORDABLE RIGHT TOOL FOR YOU WHMP!

Compliant with ICAO SARPS & EASA guidelines



Wildlife observations

Recording of wildlife observations and interventions, automatic editing of statistics and maps, photo library.

Aircrafts - wildlife strikes

Log of wildlife strikes, automatic generation of statistics and maps.

Daily logs

All relevant information can be recorded, data sorting, development of statistics and annual operations reports edition.



Environment and works

Recordings of airport environment modifications to feed general statistics and graphics allowing the analysis of the actual wildlife hazard level.

Stock management

Monitoring of ammunition use. Stock data are automatically updated.

Weapons maintenance

Log of weapons and periodical weapons maintenance.

Hazard analysis - MANIRA-Airports®

Automatic analysing of hazard according to the methodology of airport indicative wildlife hazard level assessment.

ECCAIRS compliant

Strikes reports can be directly sent to the Airport SMS manager, the national authority or the EASA.

Reports and maps

The software allows to extract raw data in xls format, predefined statistics with graphics meeting EASA and ICAO audit requirements, observations, interventions and strikes location maps, as well as combined maps.



The AWHM software has been developed in order to implement, as part of the active prevention, the methodology of an ICAO and EASA compliant wildlife management concept in airports. This tool and the methodology beyond it have been developed thanks to the Geneva Airport Wildlife Hazard Management Unit field experience. The app is designed to ease the daily work of the field officers and managers.



Can your airport afford less than 5 € / day ? (Equivalent to 5.2 USD)

AWHM & ABM LOGS - ANALYSIS - STATISTIC - MAPPING - MONITORING

PRICES

			
System setup	2,000 € *	2,000 € *	2,000 € *
5 years licence	1,800 € / year	600 € / year	2,000 € / year
4 years licence	1,900 € / year	700 € / year	2,100 € / year
3 years licence	2,000 € / year	800 € / year	2,200 € / year
2 years licence	2,100 € / year	900 € / year	2,300 € / year
1 year licence	2,200 €	1,000 €	2,400 €

* Price per airport, regardless the number of concurrent users. It includes airport geo-referencing (An 180 m. x 180 m. grid covering the whole platform) and up to 5 hours online support for application setup and basic training.

Not included
HW (tablets), SIM cards (Min. 3G, 4G recommended) and communication costs, at the buyer's / airport's expense.
Onsite training, user accounts setup, structuring of customized logs are complimentary services for which we will gladly propose you an offer.



ENVIRONMENT - SAFETY - AIRPORTS

ABOUT BTEE SA

BTEE SA provides services in the fields of Environment, Safety and Airports. It offers support, expertise and training in the area of airport operations and safety.

Thanks to its long term experience in airport area and by the trust of more than 200 airports across the globe, BTEE SA has developed these applications allowing its customers to gain in performance and safety in the wildlife hazard and biodiversity management.

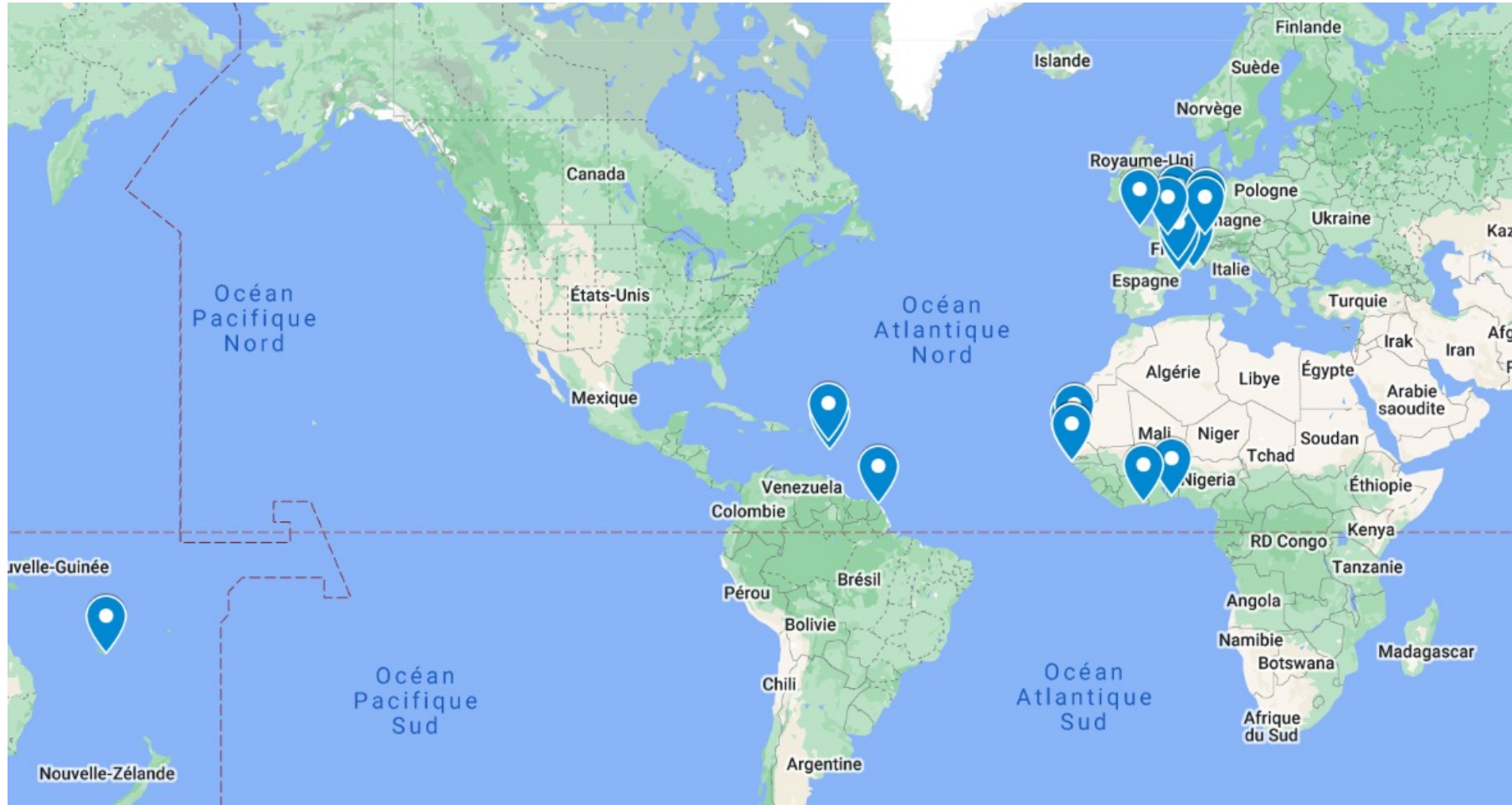
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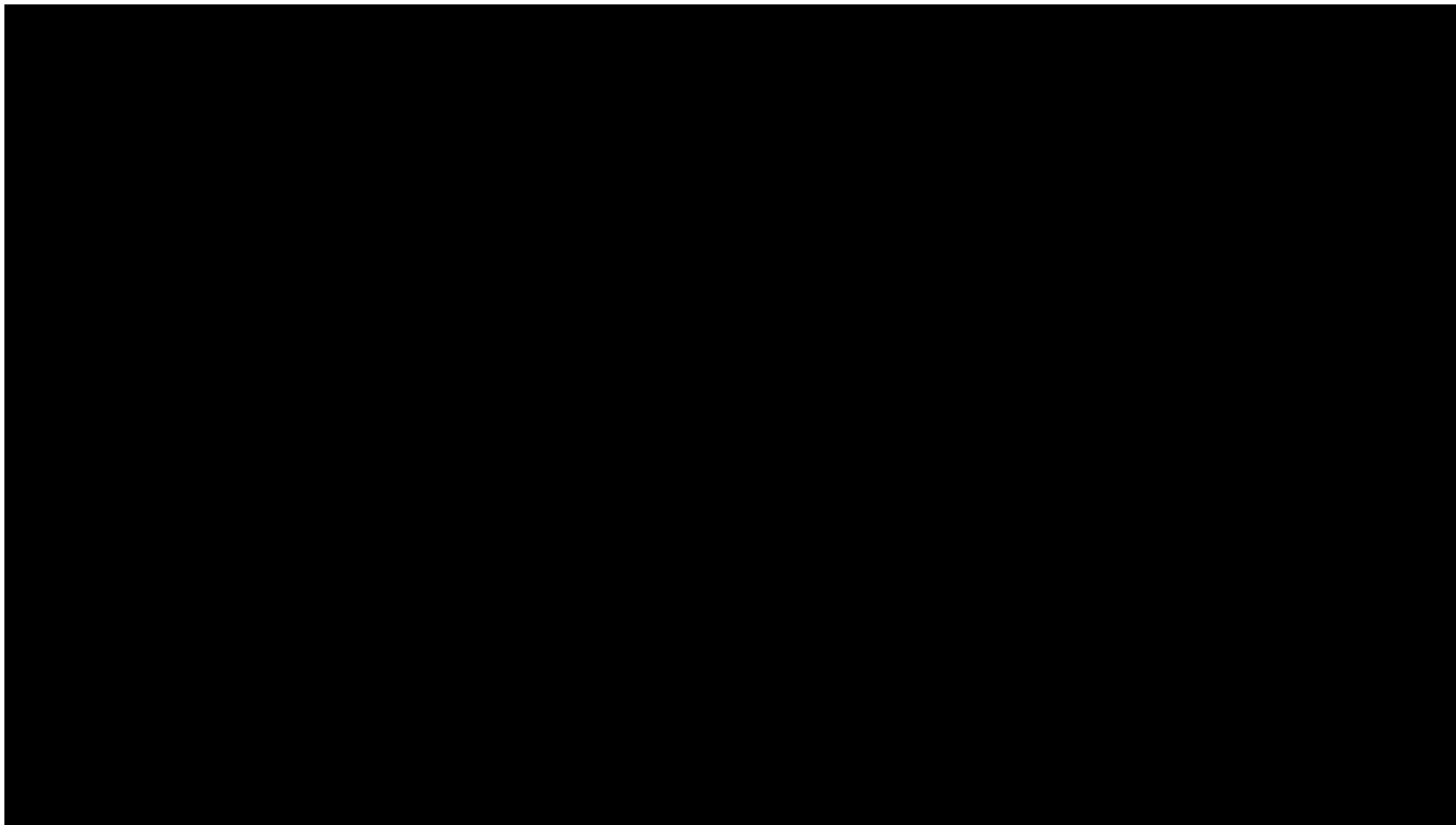
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AWHM video summary





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Thank you for your attention

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Merci de votre attention



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