



**INTERNATIONAL CIVIL AVIATION ORGANIZATION
MIDDLE EAST REGIONAL OFFICE**

WILDLIFE HAZARD MANAGEMENT AND CONTROL (WHMC) WORKSHOP

(Khartoum, Sudan, 10-12 December 2018)

SUMMARY OF DISCUSSIONS

1. INTRODUCTION

1.1 The Wildlife Hazard Management and Control (WHMC) Workshop was successfully held in Khartoum, Sudan, from 10 to 12 December 2018 and hosted by the Sudan Civil Aviation Authority (SCAA).

1.2 The Workshop was attended by eighty-five (85) participants from five (5) States (Botswana, Egypt, Iran, Kenya and Sudan). The list of participants is at **Attachment A**.

1.3 The Workshop was opened by H.E. Capt. Ahmed Satti Abdelrahman Bajouri, Director General, Sudan Civil Aviation Authority (SCAA) who welcomed the participants to Sudan and thanked them for their attendance to this important Workshop and wished successful deliberations and outcomes.

1.4 Mr. Fakhreldin Osman Ahmed Mehadi, Aerodromes Safety & Standards, Sudan Civil Aviation Authority (SCAA) and Mr. Mohamed Iheb Hamdi, Regional Officer, Aerodromes and Ground Aids (AGA), ICAO Middle East were the Facilitators of the Workshop.

2. DISCUSSION

2.1 The Objective of the Workshop was to raise awareness about WHMC, share experiences/best practices and promote techniques and strategies related to WHMC. It included three days of presentations (10-12 December 2018) covering relevant Wildlife Hazard Management topics and providing feedback on implementation issues, especially those related to Wildlife Hazard Management Plan. The Workshop consisted of a forum where CAAs, Airports Operators, ANSP, airlines and other government environmental organizations exchanged their experiences on the subject. The Workshop Programme is at **Appendix A**.

2.2 All the materials presented during the Workshop are available on the ICAO MID website: <https://www.icao.int/MID/Pages/2018/WHMC-new.ASPX.aspx>

2.3 The Workshop agreed to the following Conclusions:

- 1) improving reporting culture and data collection;
- 2) fostering collaboration and communication among concerned stakeholders; ATCs, Aerodromes, Airlines and CAAs (including local authorities) to detect hazards and mitigate Wildlife;
- 3) Wildlife Hazard Management Programme should be developed based on the risk assessment conducted within the framework of aerodrome SMS;
- 4) roles and responsibilities should be clearly defined in the Wildlife Hazard Management Plan to ensure the effective implementation of the Plan;
- 5) using the appropriate strategy for managing Wildlife including, Habitat management, Active Management and removal strategy, considering the environment specifications on and around the airport;
- 6) consider inclusion of new technology as part of the Active management of wildlife; and
- 7) the follow up of the WHM Plan implementation should be part of the Runway Safety Team (RST) duties.

2.4 The participants thanked ICAO and Sudan Civil Aviation Authority (SCAA) for organising the Workshop and for the excellent arrangements and hospitality.



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WORK PROGRAMME




ICAO International Standards and Recommended Practices

Annex 14 to the Convention on International Civil Aviation

Aerodromes

Volume I
Aerodrome Design and Operations
Seventh Edition, July 2016



This edition supersedes, on 10 November 2016, all previous editions of Annex 14, Volume I.
For information regarding the applicability of the Standards and Recommended Practices, see Chapter 1, 1.2 and the Foreword.

INTERNATIONAL CIVIL AVIATION ORGANIZATION



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AN/898
Part 3

Airport Services Manual

Part 3
Wildlife Control and Reduction

Approved by the Secretary General and published under his authority

Fourth Edition — 2012

International Civil Aviation Organization



RASG-MID SAFETY ADVISORY – 13 (RSA-13)
September 2017

MID-Region
Wildlife Management and Control Regulatory Framework & Guidance Material

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Day 1 – Monday, 10 December 2018

Time	Session Title/Presentation(s)	Speaker/Moderator/Panelist
08:30 09:00	Registration	-
09:00 09:30	Session 1.1: Opening Ceremony Master of Ceremony (MC): ICAO MID RD / Sudan <i>DGCA</i>	
	<ul style="list-style-type: none"> • Introduction by the MC followed by welcoming and Opening Remarks 	ICAO MID
Coffee Break & Group Photo – 30 minutes		
10:00 10:30	Session 1.2: WHMC – Global Developments	
	<ul style="list-style-type: none"> • Outcome of ICAO/ACI Wildlife Strike Hazard Reduction Symposium (Montreal, Canada, 16-18 May 2017) • ADOP activities related to WHMC Wildlife Hazard Management Plan • ICAO Provisions related to WHMC 	<ul style="list-style-type: none"> ○ Mr. Mohamed Iheb Hamdi, RO/AGA, ICAO MID
10:30 11:30	Session 1.3: Wildlife Management – Overview	
	<ul style="list-style-type: none"> • Wildlife Management from Regulatory Perspective 	<ul style="list-style-type: none"> ○ Eng. Angie Mostafa, Head of Aerodromes Safety and Standards, Egyptian CAA
11:30 12:00	Session 1.4: Wildlife Management – Regulatory Perspective	
	<ul style="list-style-type: none"> • States' best practices on Wildlife Management • 	<ul style="list-style-type: none"> ○ Mr. Fakhreldin Osman Ahmed DASS Director, CAA of Sudan
Lunch Break – 75 minutes		
13:15 14:00	Session 1.5: Wildlife Management – Stakeholders' Perspective: Airport Operator	
	<ul style="list-style-type: none"> • Cairo International Airport experiences and perspectives related to WHMC 	<ul style="list-style-type: none"> ○ Mrs. Nour El Hoda, Aerodrome Director, Egypt CAA
14:00 14:30	Session 1.5: Wildlife Management – Stakeholders' Perspective: Airline Operator	
	<ul style="list-style-type: none"> • Bird Hazards Management 	<ul style="list-style-type: none"> ○ Capt. Ahmed Hashim Hussein, Safety Director, Badr Airlines
End of Day 1		



Day 2 – Tuesday 10 December 2018

Time	Session Title/Presentation(s)	Speaker/Moderator/Panelist
09:00 09:45	<ul style="list-style-type: none"> • Session 2.1: Guidance on WHMC 	
	<ul style="list-style-type: none"> • Guidance on Wildlife Management and Control Plan 	<ul style="list-style-type: none"> ○ Mr. Mohamed Iheb Hamdi, RO/AGA, ICAO MID
09:45 10:30	<ul style="list-style-type: none"> • Session 2.2: Habitat Management/ land use 	
	<ul style="list-style-type: none"> • Habitat Management Best Practices <ul style="list-style-type: none"> ○ Birds strikes hazards 	<ul style="list-style-type: none"> ○ Dr. Dawi Musa, Dept. of zoology, University of Khartoum (Ethologist)
Coffee Break – 20 minutes		
10:50 11:30	<ul style="list-style-type: none"> • Session 2.3: WHMC Intervention Techniques 	
	<ul style="list-style-type: none"> • The Phoenix Airport wailer for bird's Deterrent in Sudan 	<ul style="list-style-type: none"> ○ Dr. Abderahman Elamin Abdelgadir, Energy & Environment Consultant
11:30 12:30	<ul style="list-style-type: none"> • Session 2.4: Guidance on WHMC 	
	<ul style="list-style-type: none"> • Wildlife Experience at Khartoum International Airport 	<ul style="list-style-type: none"> ○ Mr. Mohamed Osman Atta, Environment Manager, Aerodrome Engineering Consultancy Company
Lunch Break – 75 minutes		
11:30 12:15	<ul style="list-style-type: none"> • Session 2.5: WHMC Plan 	
	<ul style="list-style-type: none"> • Sharm Esheikh Airport Wildlife Hazard Management Plan 	<ul style="list-style-type: none"> ○ Mrs. Nour El Hoda, Aerodrome Inspection Director, Egypt CAA
13:30 15:00	<ul style="list-style-type: none"> • Session 2.6: Effective implementation of Wildlife Management and Control 	
	<ul style="list-style-type: none"> • Practical application and exercises based on the Global and Regional Framework 	<ul style="list-style-type: none"> ○ Kamran Akhavan Attari, Safety Manager Deputy of Iran Airports & Air Navigation Company ○ All
End of Day 2		

Day 3 – Wednesday 10 December 2018

Time	Session Title/Presentation(s)	Speaker/Moderator/Panelist
09:00	<ul style="list-style-type: none"> • Session 3.1: Wildlife and its impact on ATS 	
09:45	<ul style="list-style-type: none"> • Wildlife in the Aerodrome Traffic Circuit 	○ Mr. Imad Elhag, Sudan ANSP
09:45	Session 3.2: Environmental matters related to Wildlife	
10:30	<ul style="list-style-type: none"> • Environment and Wildlife and its impact on Aviation Safety at KHartoum International Airport 	○ Mrs. Rehab Ahmed, Environment Director Khartoum International Airport.
Coffee Break – 30 minutes		
11:00	Session 3.3: Panel Discussion / Workshop	
12:15	Workshop on WHMC Plan <ul style="list-style-type: none"> • Implementation Challenges and recommendations 	All
Lunch Break – 75 minutes		
13:30	Session 3.4: Closing Ceremony	
14:30	<ul style="list-style-type: none"> • Wrap-up/Conclusions • Closing 	All
End of the Workshop		

- END -

LIST OF PARTICIPANTS

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