



# TEFKROS 2023

ICAO/JRCC SAR Regional Workshop

Larnaca  
06 Oct 2023



# Exercise TEFKROS 2023



## Scenario



A civil passenger aircraft with flight number **000**, carrying 5 crew members, and 155 passengers, was flying from Lebanon to Larnaca airport. While in the process of landing at 09:55, the hydraulic system of the landing gear failed, which caused the pilot to perform an emergency landing. Due to this failure, the aircraft slid outside the landing gauge and ended up at the salt lake located outside the airport.



# Exercise TEFKROS 2023



## COORDINATORS

SMC: JRCC LARNACA

OSC: POLICE OFFICER

OSC IN THE RED ZONE: FIRE SERVICE OFFICER

## EXERCISE MAIN OBJECTIVES

1. **TEST IN PRACTICE THE PROCEDURES OF THE SAR NATIONAL PLAN**
2. **COOPERATION BETWEEN 20 GOVERNMENTAL SERVICES**
3. **COOPERATION WITH PRIVATE SECTOR AND AIRPORT OPERATOR**
4. **COMMUNICATION WITH THE LARNACA ATC**
5. **DEBLOCKING AND RESCUE OF PASSENGERS/ FIRE FIGHTING OPS: FIRE SERVICE.**
6. **HOVERCRAFT DEPLOYMENT: FIRE SERVICE & AIRPORT LIFEGUARD TEAM**
7. **USE OF SPECIAL EQUIPMENT/FLOATING CORRIDORS: HERMES AIRPORTS LTD**
8. **SEARCH AND RESCUE OPS (INCL SALT LAKE TERRAIN): SEARCH TEAMS: UDT, SOF, DRSU, CIVIL DEFENSE, FORESTRY DEPARTMENT**
9. **TRIAGE-COLLECTION/TRANSPORTATION OF INJURED PERSONS- SHSO – AMBULANCE SERVICE**



# Exercise TEFKROS 2023



## EXERCISE MAIN OBJECTIVES

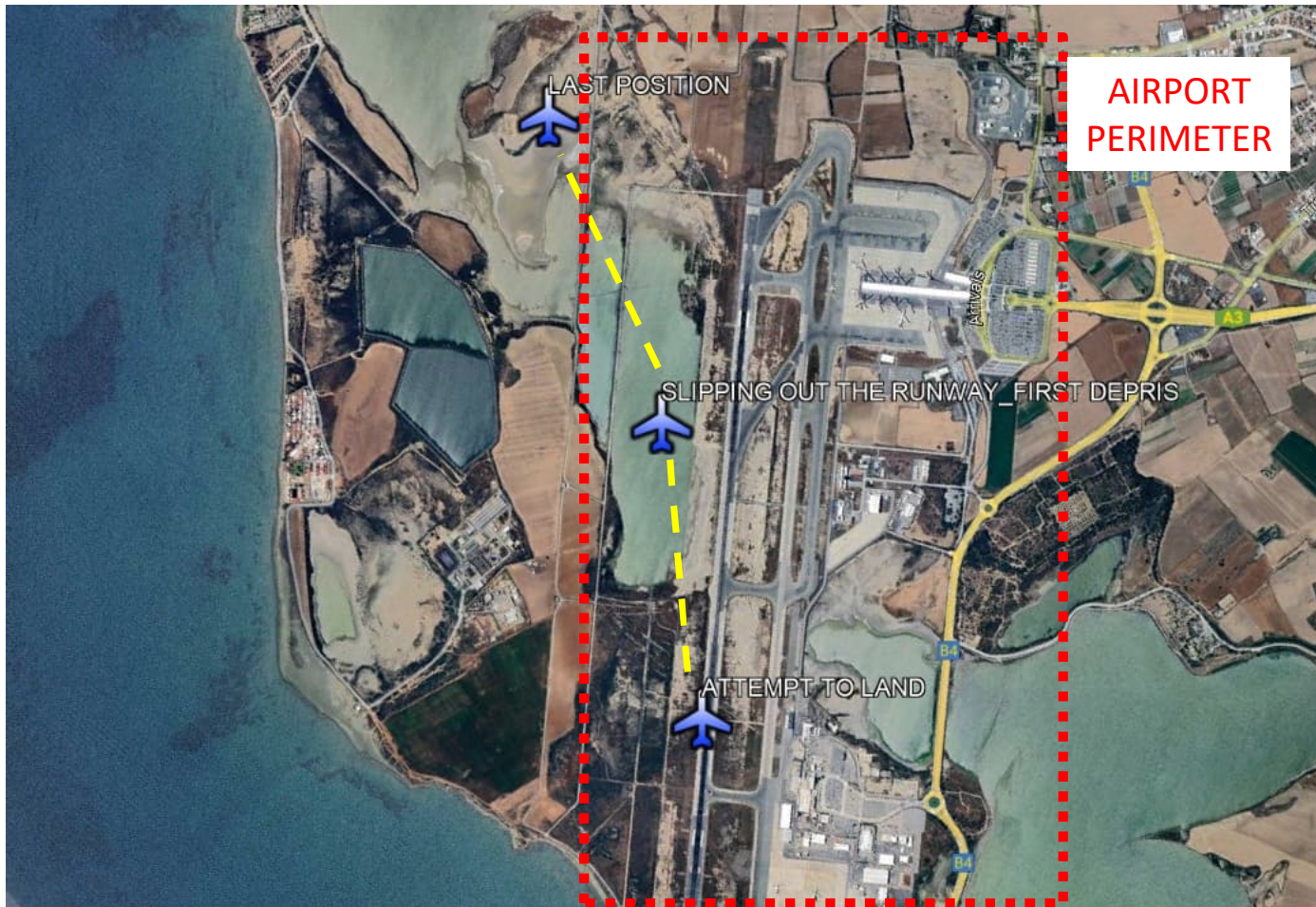
10. RESCUE AND MEDEVAC OF INJURED PERSONS: SEARCH TEAMS- HELICOPTERS
11. FAMILIARIZATION OF THE INVOLVED UNITS WITH THE UNIQUE ENVIRONMENT OF SALT LAKES
12. AERIAL FIRE FIGHTING– FORESTRY DEPARTMENT/ FLIGHT UNIT
13. ACTIVATION OF FAMILY SUPPORT PLAN- HERMES AIRPORTS LTD –CYPRUS AIRWAYS–TUS AIRWAYS



# Exercise TEFKROS 2023

## AIR INCIDENT

### FLIGHT 000 BEIRUT TO LARNACA





# Exercise TEFKROS 2023



## Involved Agencies

### AIRCRAASH INLAND

POLICE	NGHQ	FIRE SERVICE	HEALTH MINISTRY	CIVIL DEFENSE	FORESTRY DPM	AAIIB	MOD	MTCW	MFA	DCA	HERMES AIRPORT	OPERATOR	SOCIAL SERVICES
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### SALT LAKE AIRCRAASH

POLICE	NGHQ	FIRE SERVICE	HEALTH MINISTRY	CIVIL DEFENSE	FORESTRY DPM	AAIIB	MOD	MTCW	MFA	DCA	HERMES AIRPORT	OPERATOR	SOCIAL SERVICES
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# Exercise TEFKROS 2023



## Involved Forces


Forces	Task
<p><b>Larnaca Police Forces</b></p> 	<p>OSC Safety Zones Activation of Command Post Medical Examiners</p>
<p><b>Cyprus Police Aviation Unit</b></p> 	<p>SAR Helicopter AW-139 to execute medevac Ops</p>



# Exercise TEFKROS 2023



## Involved Forces

Forces	Task
<b>460 SAR SQ</b> 	SAR Helicopter AW-139 to execute medevac Ops
<b>Special Forces Unit</b> 	SOF Team to execute Search and Rescue Ops Cooperation with Helicopters during medevac ops
<b>Underwater Demolition Team</b> 	UDT to execute Search and Rescue Ops in the Salt Lake Use of an inflatable boat and floating stretcher







# Exercise TEFKROS 2023



## Involved Forces


Forces	Task
<b>Larnaca Fire Service</b> 	Responsible within the Rescue Zone (RED ZONE) Fire Fighting Ops (outside the airport premises) Initial Rescue Operations inside RED ZONE
<b>Airport Fire Service</b>	Fire Fighting Ops (inside the airport premises) Special Equipment Implementation (Hovercraft, inflatable pathways)
<b>Disaster Response Special Unit</b> 	Rapid Water Team with an inflatable boat to execute search ops in the salt lake area outside the airport premises K-9 Team to support the search ops



# Exercise TEFKROS 2023



## Involved Forces



Forces	Task
<p><b>Civil Defense Larnaca</b></p> 	<p>Civil Rescue Team to execute search operations</p> <p>Volunteers to assist to the operations of Police and Ambulance Services</p> <p>Medic Team</p>



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## Involved Forces

Forces	Task
<p><b>Department of Forest</b></p> 	<p>A Rescue Team for Search Operations</p> <p>Fire Fighting Aircraft</p> 



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## Involved Forces

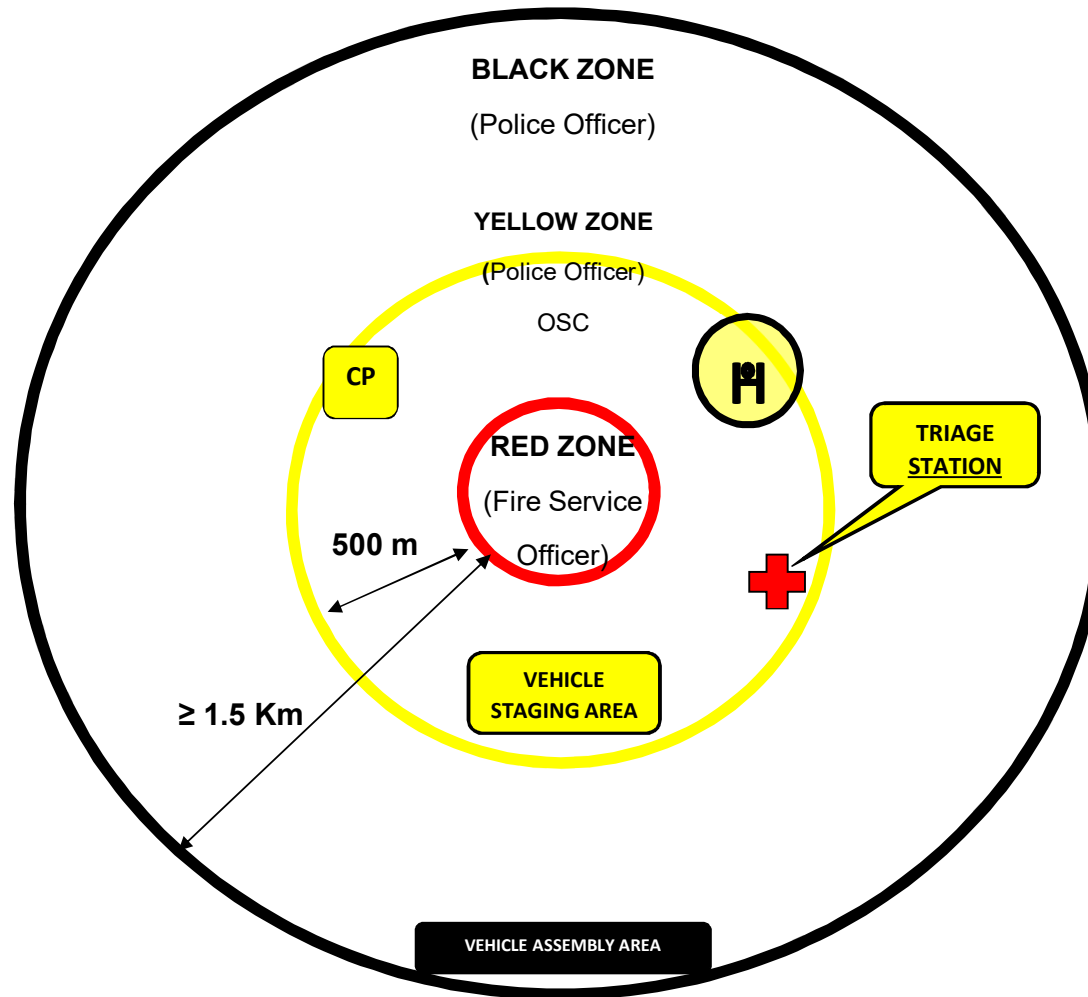
Forces	Task
<b>Ministry of Health/ State Health Services Organization</b>  Οργανισμός Κρατικών Υπηρεσιών Υγείας State Health Services Organisation	Medical personnel from Larnaca General Hospital to staffed the Triage area  Facilities to the State Hospitals to accept injured passengers
<b>Ambulance Services</b> 	Deployment of Triage Area at the Crash Site  Injured Persons Treatment  Transporting patients by ambulances to General Hospital



# Exercise TEFKROS 2023



## Safety Zones

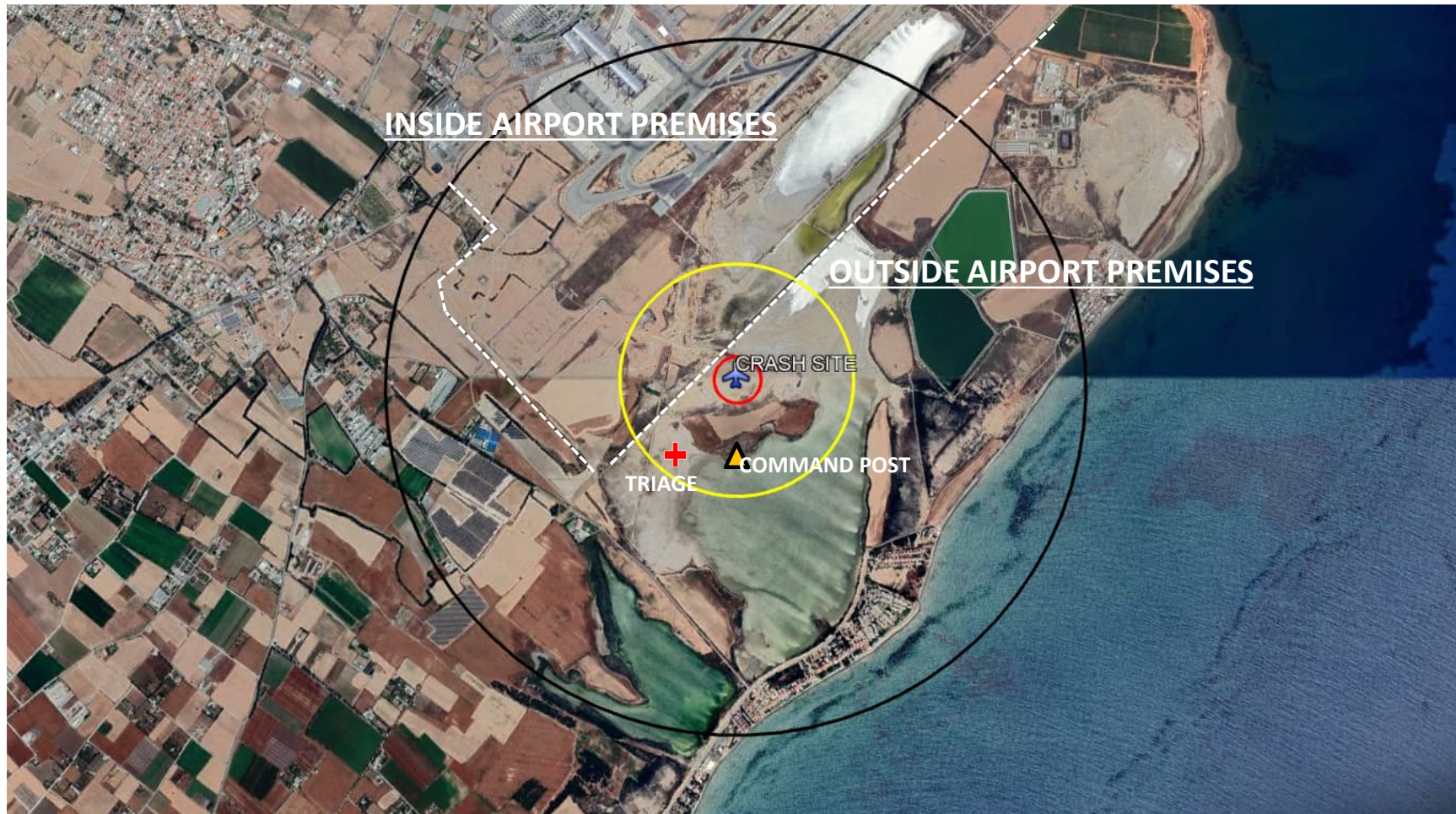






# Exercise TEFKROS 2023

## Safety Zones







# Exercise TEFKROS 2023

## Safety Zones

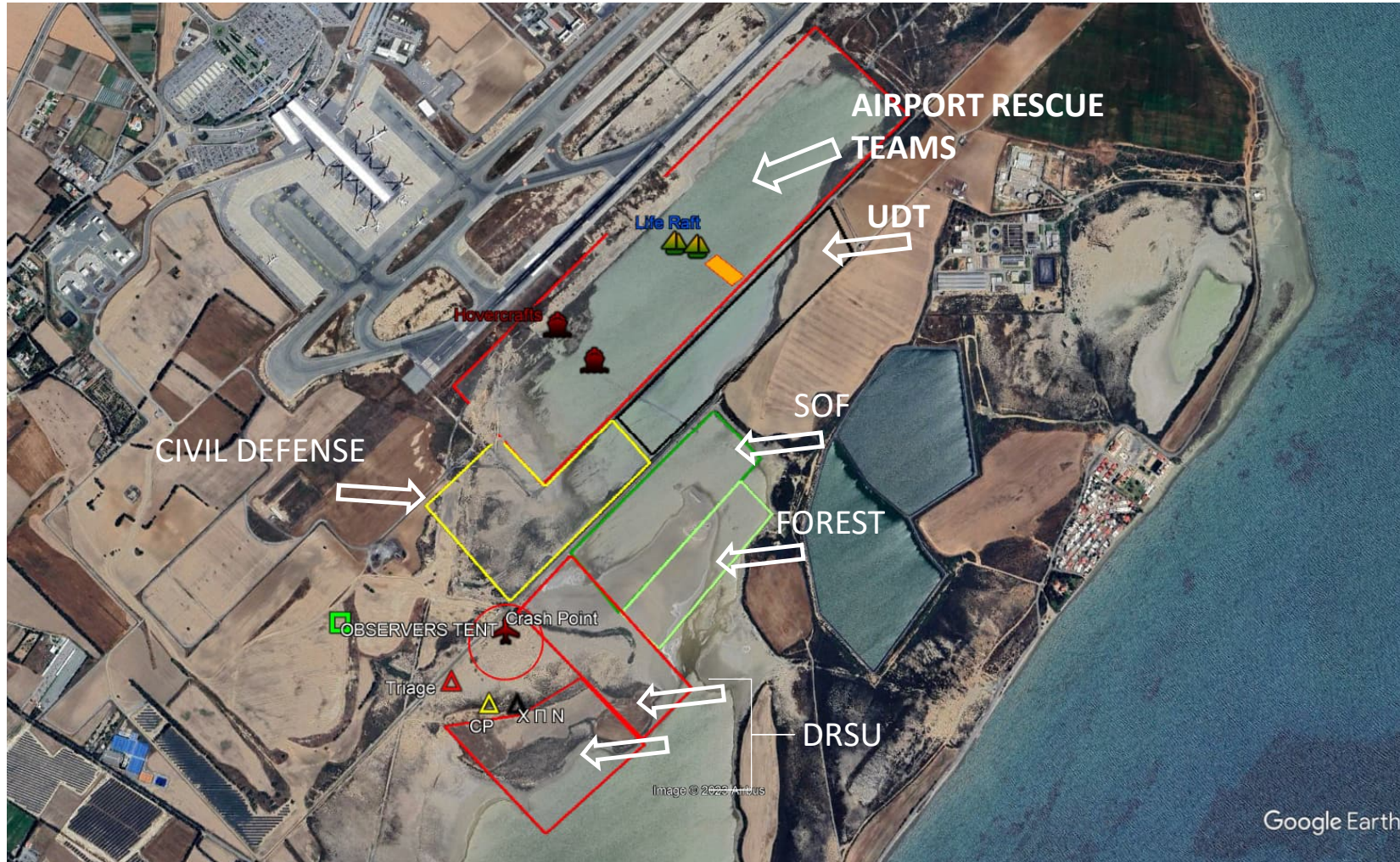






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## RESCUE TEAMS SEARCH SECTORS





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## COMMAND POST



CRASH LOCATION

POLICE  
(OSC)

AIR FORCE  
(ACO)

SHSO    AMBULANCE    CIVIL  
SERVICE    DEFENSE    DRSU    FIRE  
SERVICE

UDT    SOF    FORESTRY    CIVIL  
DPM    AVIATION    HERMES

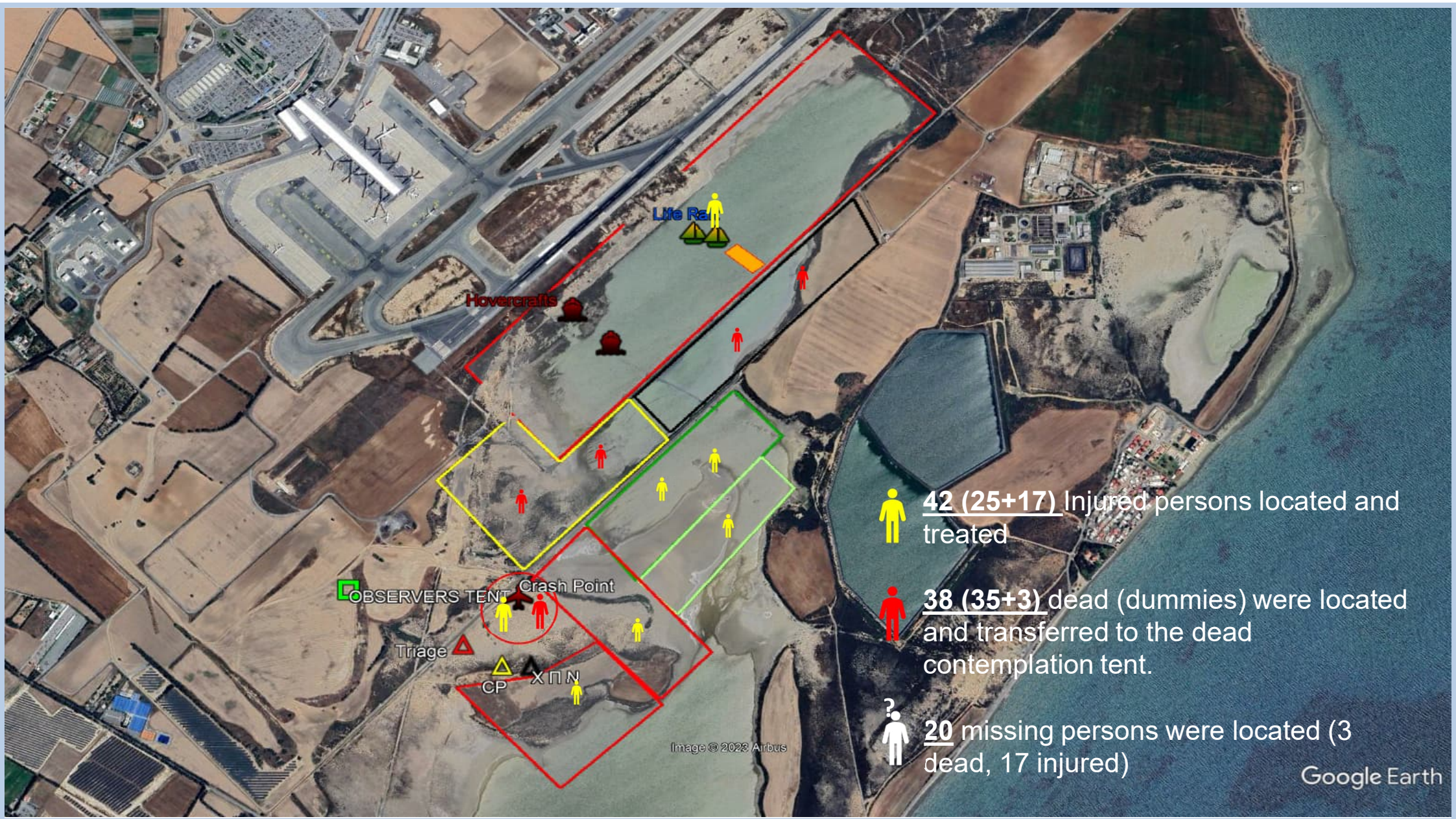


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## OPERATIONAL ACTION PLAN- FLOW CHART







Life Ra

Hovercrafts

Crash Point

OBSERVERS TENT

Triage

CP

X Π N

Image © 2023 Airbus



**42 (25+17)** Injured persons located and treated



**38 (35+3)** dead (dummies) were located and transferred to the dead contemplation tent.



**20** missing persons were located (3 dead, 17 injured)

Google Earth





# Exercise TEFKROS 2023



## FINDINGS

1. Very good cooperation between the Police and Fire Service to secure the area (RED-YELLOW AND BLACK ZONES)
2. VHF/AM 134,00 MHZ didn't cover the needs of the scenario. After the request of the OSC, the exercise was conducted on UHF 255,00 MHZ.
3. The commence of the search operations wasn't clear to all Rescue Units.
4. Time slots were sufficient for all assets/teams to complete their tasks.
5. Liaison officer from all the involved units were extremely helpful for the OSC and JRCC
6. Drone and UAV operations close to the airport facilities are needed to be fully coordinated with the Tower even if the airport declared at emergency and suspend its operations.





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## FINDINGS

8. The special equipment for the salt lakes is needed to be tested several times at different levels of water
9. During medevac operations land units used their own stretcher saving time to evacuate the person
10. 35 dead (dummies) were located and transferred to the dead contemplation tent but the procedure to be identified as fatality wasn't timely manner



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## RECOMMENDATIONS

1. Big scale exercises with more that 20 services involved are needed to be executed at least on an annual basis.
2. The ACO duties in case of inland SAR incident could be from Air Force with experience in air traffic control.
3. All units executing searching ops in the salt lakes SHOULD be equipped with all the necessary safety apparatus.
4. Police must be in advanced prepared for mass fatalities to deal with the incident timely manner.
5. The Family Assistance Plan must be tested frequently with the involvement of different participants each time to create basic level of experience and knowledge to a highest percentage of personnel.
6. All rescue units is recommended to be trained at PHTLS and carry the necessary medic equipment, including an appropriate stretcher for air medical evacuation.



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