





INTRODUCTION


- First utilization of dogs regarding drowned person search in the USA years 1980s
- Mainly non profit associations in most countries:
 - UK
 - Canada
 - Brasil
 - Netherlands
- Fire Fighter Corps:
 - Germany
 - France
 - ?



AIMS OF THE STUDY:

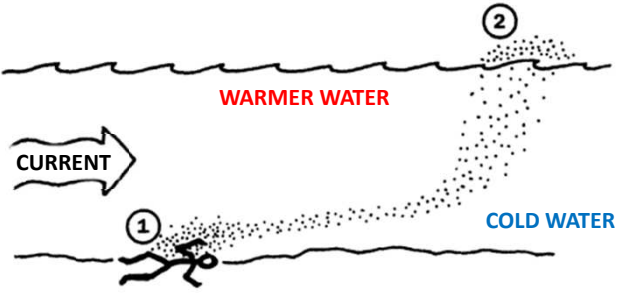
- MAKE OUR OWN MIND ON THE UTILITY OF DOG DETECTION OF DROWNED PERSONS
- VALIDATE THE CONCEPT BEFORE OFFICIALIZING IT AS AN OPERATIONAL TOOL
- NUMBER OF MISSIONS IN 2014 FOR « PERSON IN WATER »: 211





DIFFUSION OF ODORS IN WATER

☐ Molecules ou components coming from the skin ot the hair (sebum, dead cells, sweat...). Lower density than water



DIFFUSION OF ODORS IN WATER (REBMANN, 2000)

- Water temperature
- Current
- Obstacles
- Type of water

DIFFUSION OF ODORS IN AIR

- ❑ Some components are transformed into gas from and are then carried out by the wind

HEMISPHERE OF ODORS (REBMANN, 2000)

- Wind
- Ambient temperature
- Humidity
- Rain

DIFFUSION OF ODORS IN AIR

VERTICAL CONE OF ODORS DUE TO HEAT (REBMANN, 2000)

DESIGN OF THE STUDY

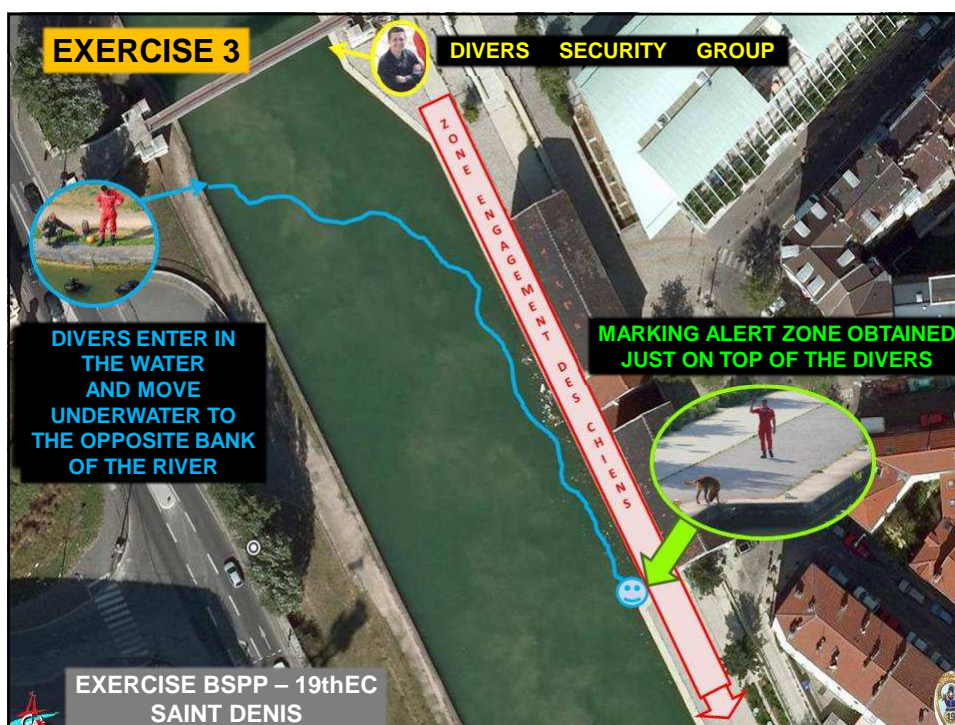
CLOSED CIRCUITS ARMY COMMANDO DIVERS


- No bubbles and exhaled substances
- Small surface of skin in contact with water

DESIGN OF THE STUDY


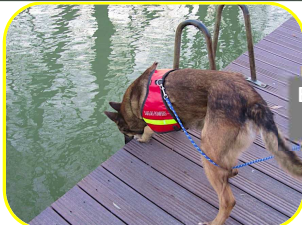

OTHER POSSIBILITIES EXIST
BUT REQUIRE HUMAN BODIES
REMAINS OR PLACENTA...







EXERCISE 4



EXERCISE BSPP – 19thEC
SEINE RIVER

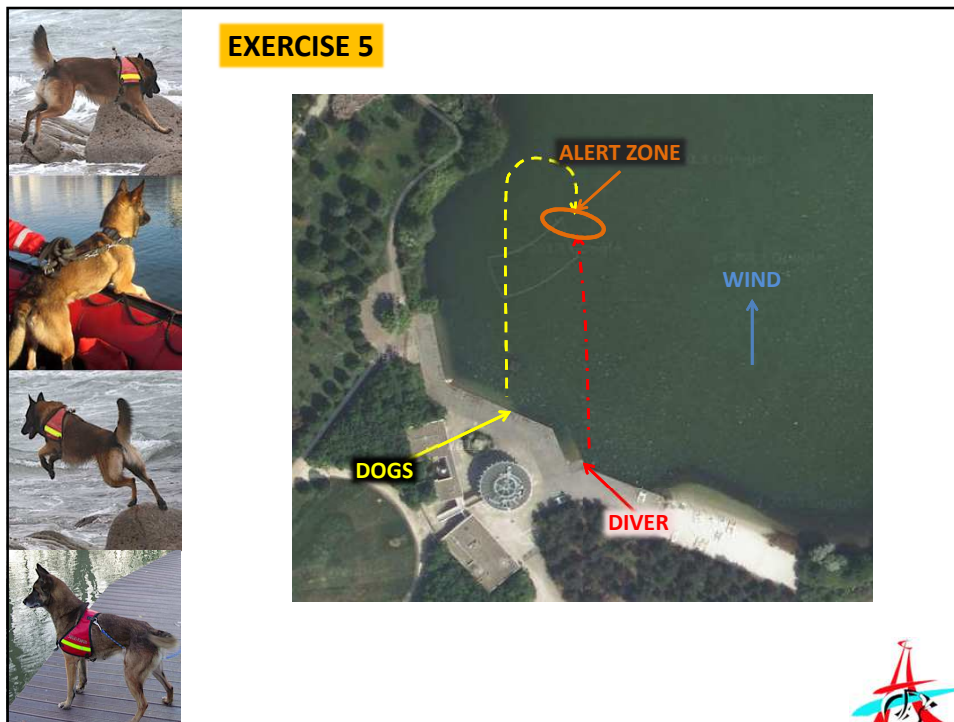


DESIGN OF THE STUDY



1. FROM SHORES

2. FROM BOATS



EXERCISE 7

- BOAT EXPLOSION
- WATER POLLUTION
- PLANT EXPLOSION

CONCLUSIONS

WIND AND FLOW DIRECTION/SPEED MUST BE TAKEN INTO ACCOUNT

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A PLATFORM IN FRONT OF THE BOAT IS MANDATORY



CONCLUSIONS

- MARKING BY THE DOG DEPENDS ON EACH INDIVIDUAL:
- SHOWS STRONG INTEREST
 - JUMPS INTO WATER AND SWIMS CIRCLES
 - RARELY BARKING
 - ONLY NOSE/HEAD MOVMENTS



MISSION WAS OFFICALIZED IN 2014 AND SINCE, DOGS HAVE BEEN ENGAGED SUCCESFULLY 6 TIMES FOR SUCH MISSIONS

