



IKAR

Average time to rescue a buried person below 1 m of snow:

Transceiver, probe and shovel

11 minutes



Transceiver and shovel

25 minutes



Only transceiver, hands, ski or snowboard

1 – 2 hours



Test: D. Stumpert



CHANCES AND LIMITATIONS OF AVALANCHE TRANSCEIVERS

ANALOG

DIGITAL

SINGLE/ DUAL ANTENNA (THREE ANTENNA)

FLUX LINE

MISLEADING MAXIMUM/ MISLEADING MINIMUM

f1
focus



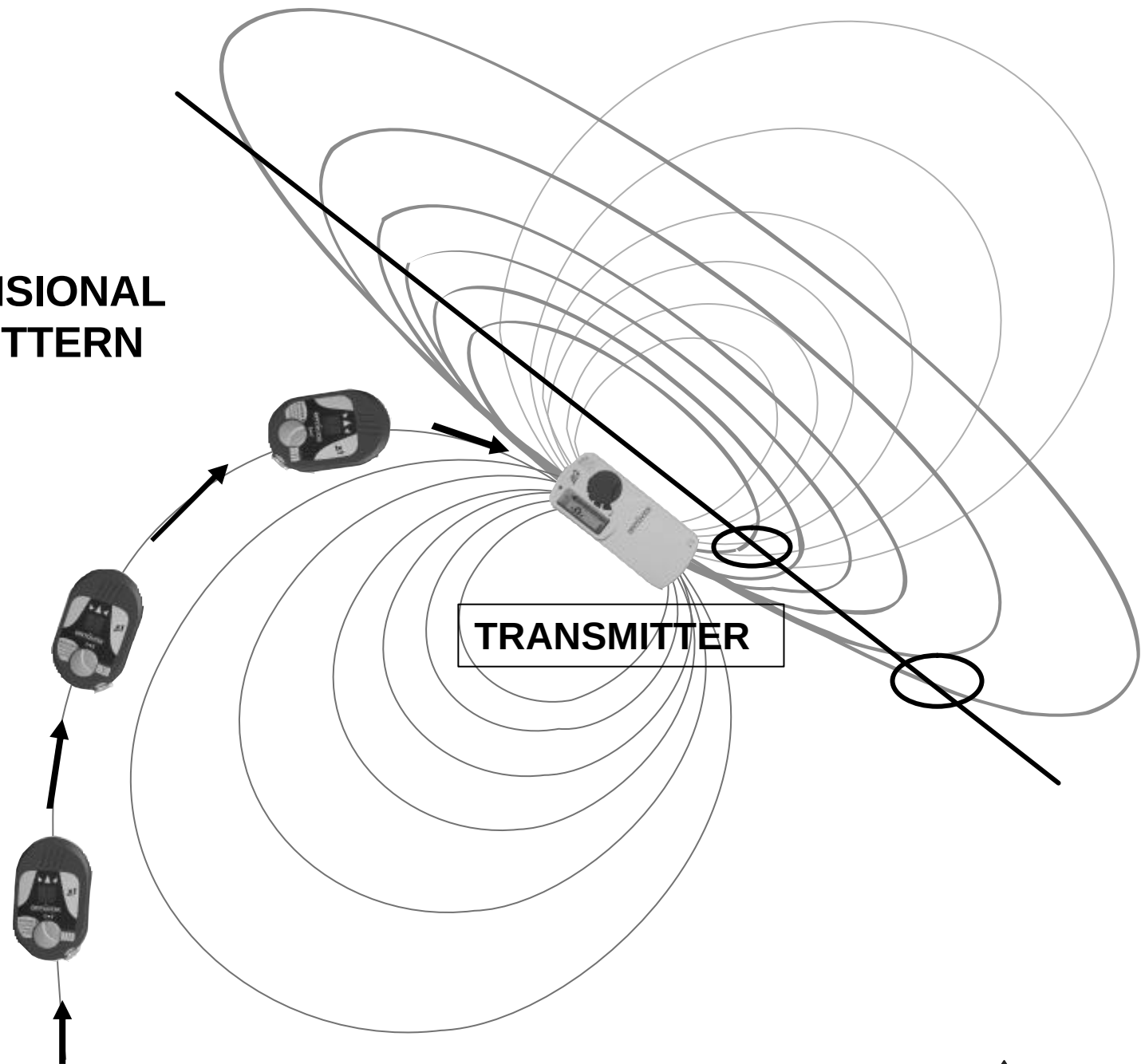
x1
DIGITAL



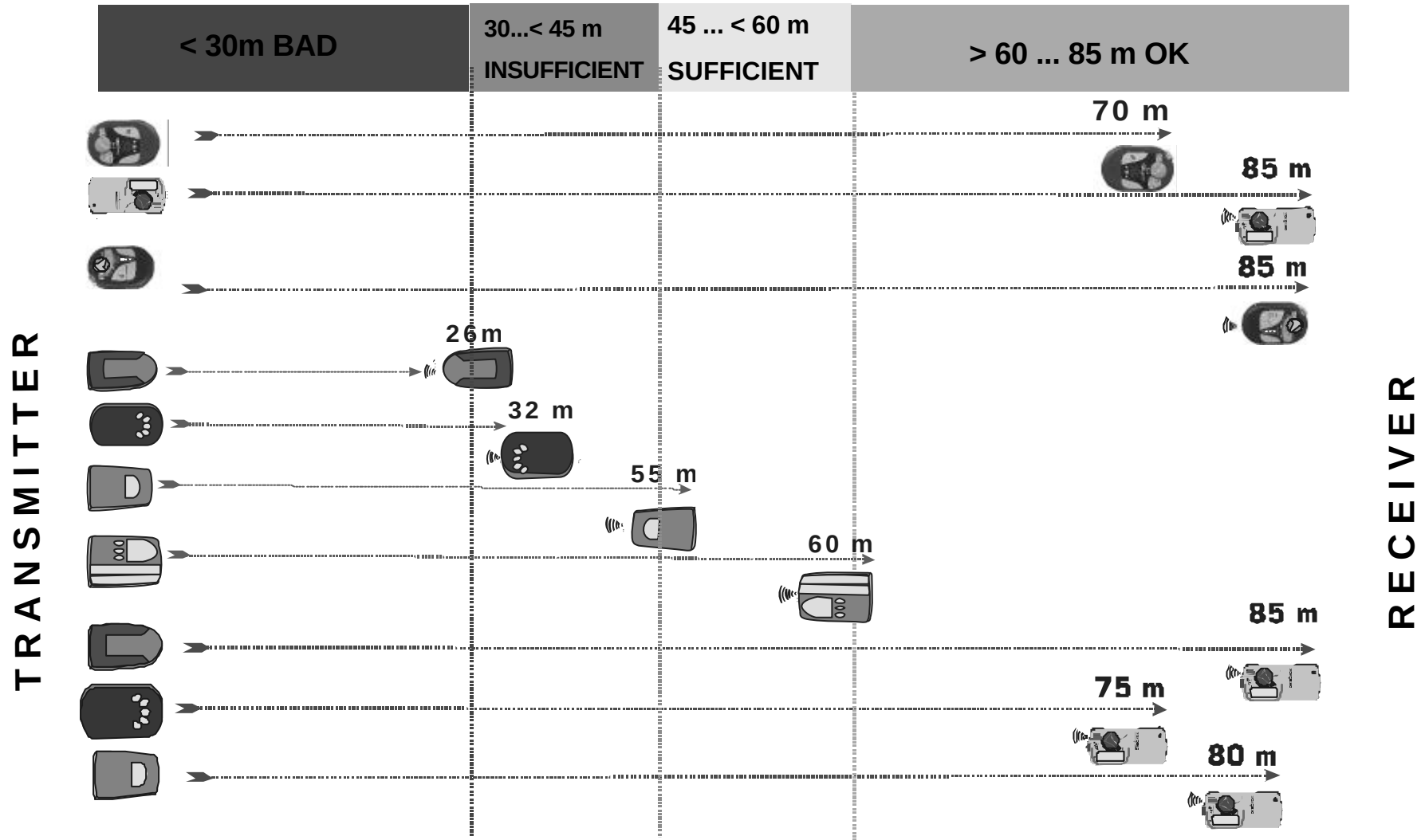
m2



THREE-DIMENSIONAL FLUX LINE PATTERN

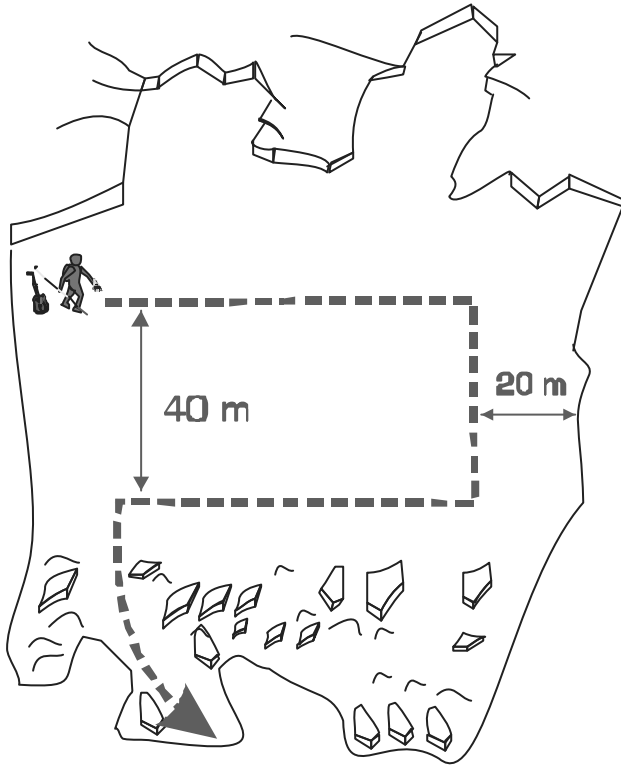


RANGE TEST



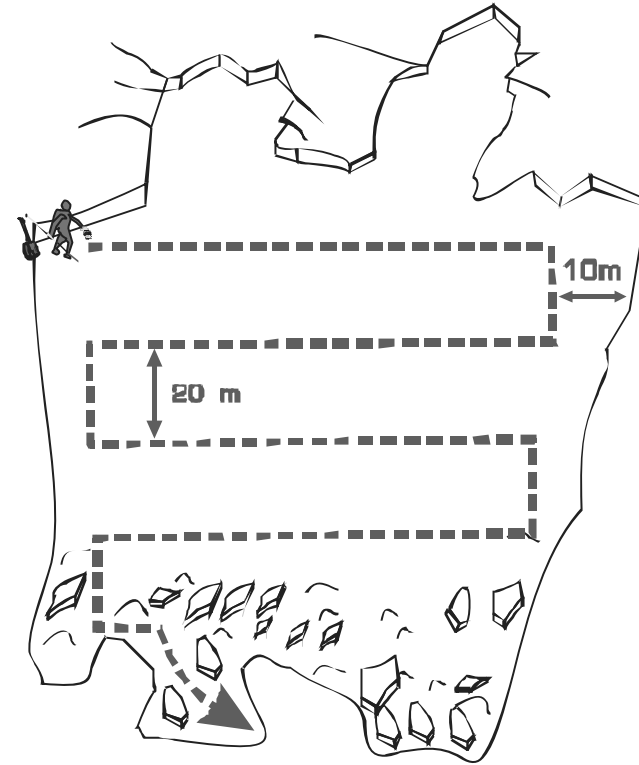
A LONG RANGE TRANSCEIVER LEADS YOU FASTER TO THE BURIED PERSON!

SEARCH STRIP WIDTH



DISTANCE OF BEACON 1 = about 160 m

TIME: about 3 minutes



DISTANCE OF BEACON 2 = about 450 m

TIME: about 7 minutes

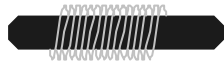
SEARCH STRIP WIDTH = HALF OF MAXIMUM RANGE

A LONG MAXIMUM RANGE PROVIDES A LONG SEARCH STRIP WIDTH.

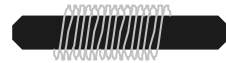
A LONG SEARCH STRIP WIDTH SAVES TIME!

SEARCH STRIP WIDTH

TRANSMITTING
ANTENNA



RECEIVING
ANTENNA



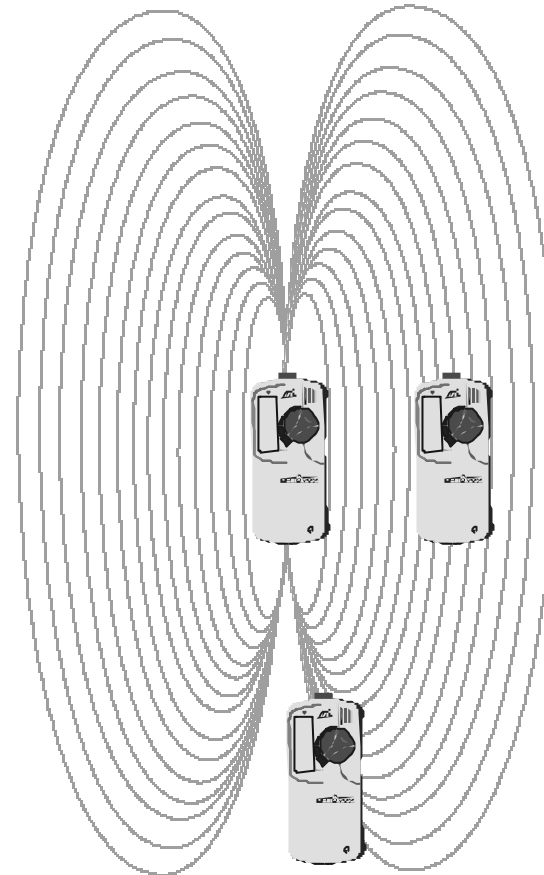
100%

TRANSMITTING
ANTENNA



RECEIVING
ANTENNA

50%

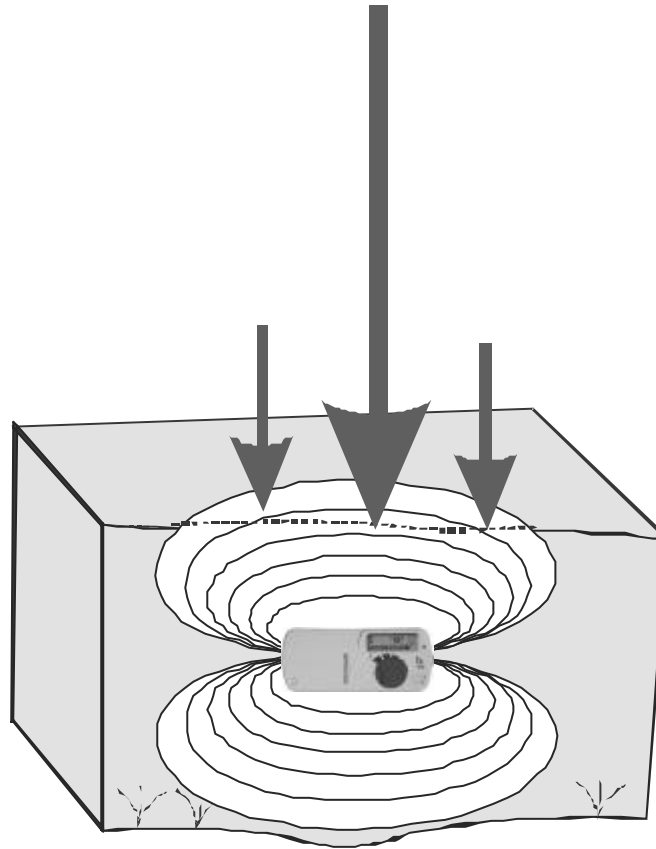


MISLEADING MAXIMUM



PIN POINT SEARCH: SHALLOW SNOW DEPTH

PIN POINTING

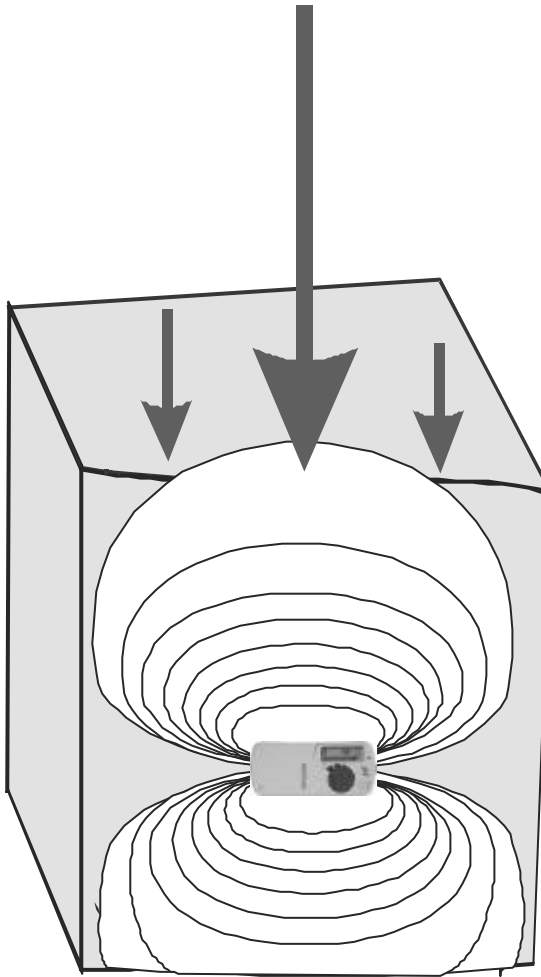


SHALLOW BURIAL



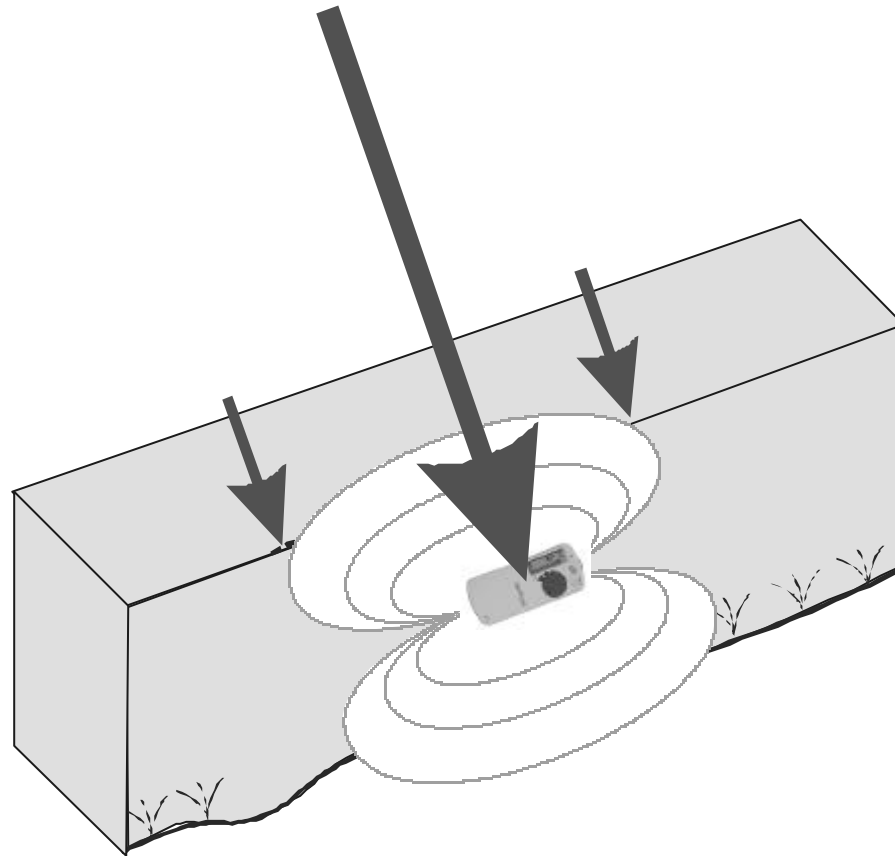
PIN POINT SEARCH: DEEP BURIAL

PIN POINTING

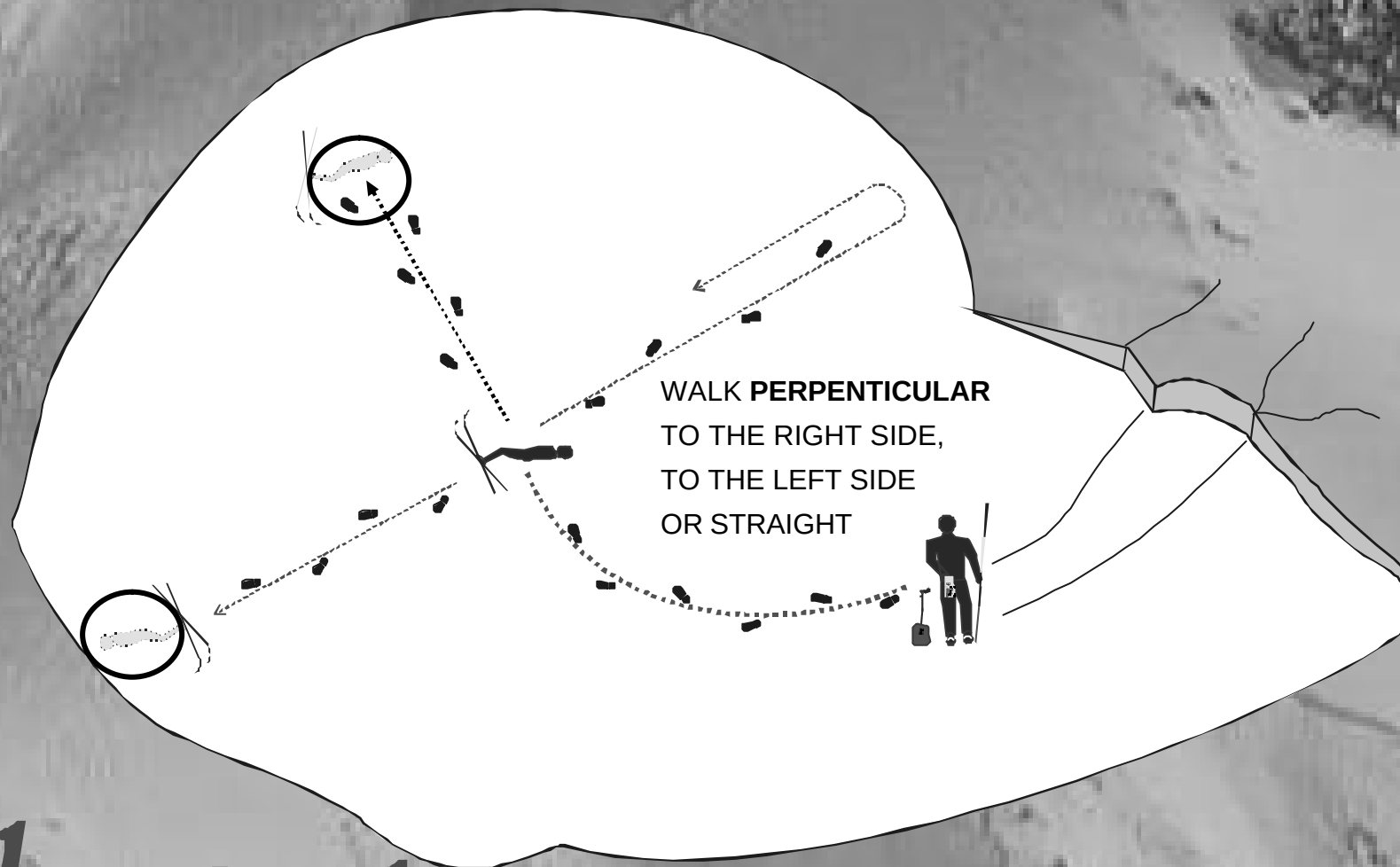


DEEP BURIAL

PIN POINTING ON A SLOPE



MULTIPLE BURIAL SCENARIO



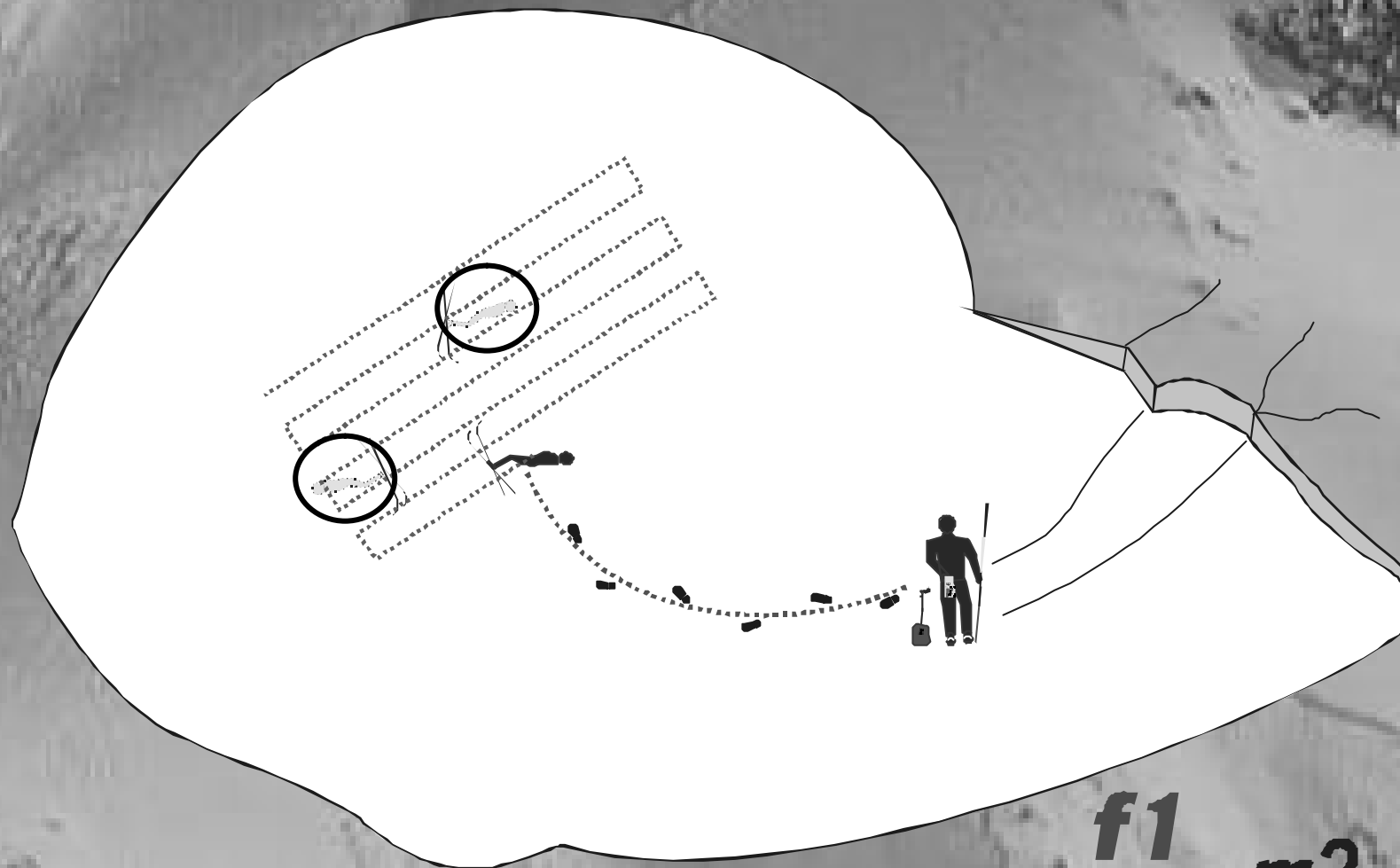
f1
focus

m2

x1
DIGITAL

ORTOVOX
www.ortovox.com

MULTIPLE BURIAL SCENARIO – MICRO SEARCH STRIP



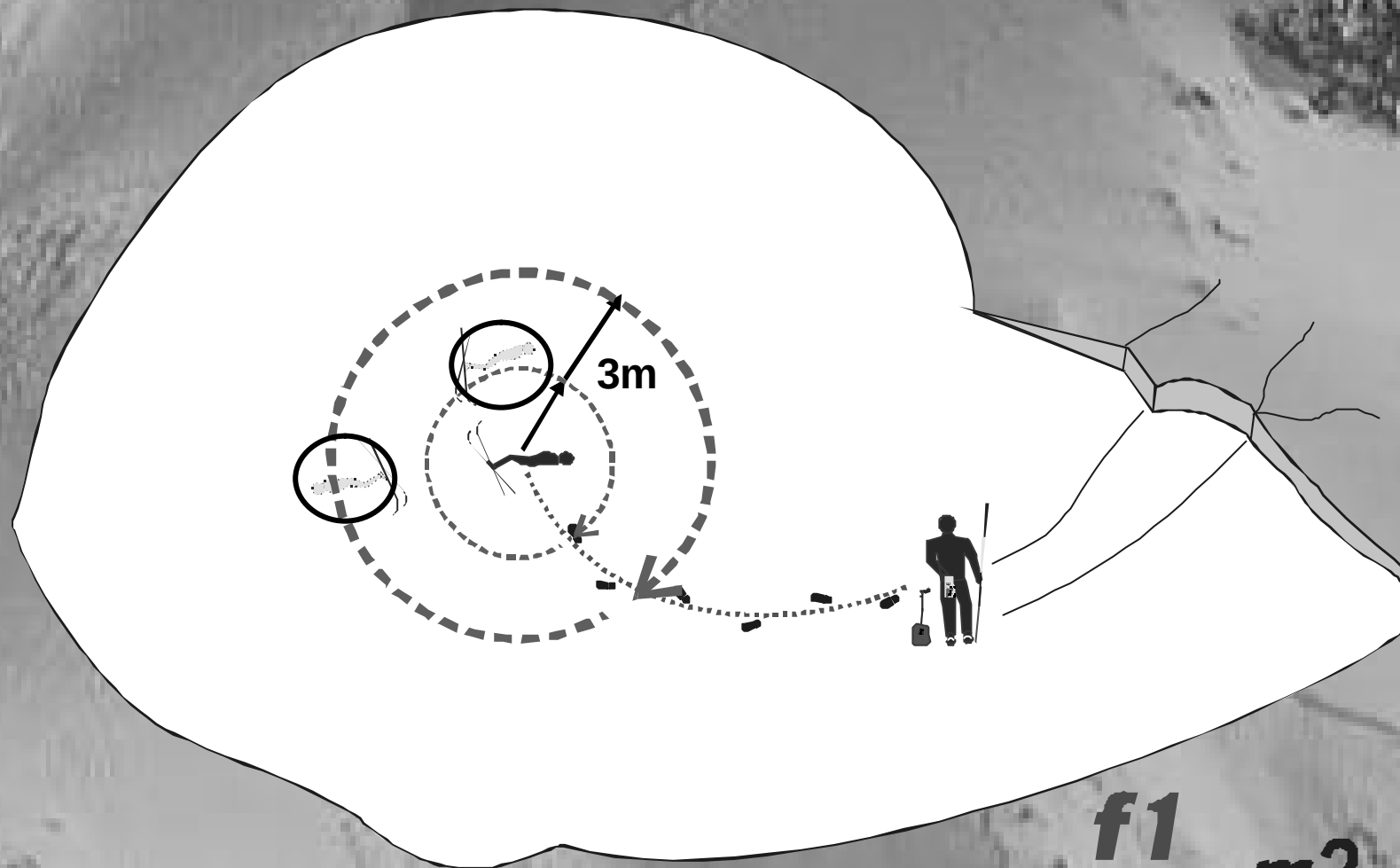
f1
focus

m2

x1

ORTOVOX
www.ortovox.com

MULTIPLE BURIAL SCENARIO – CIRCLE SEARCH STRIP



f1
focus

m2

x1

ORTOVOX
www.ortovox.com

THANK YOU!