

Esercitazioni software GEOPHYSICA

GPR

CASI STRATI INCLINATI:

1A Compute: L1A_S

Layer, 25m, 50traces, 600ps, 128samples
500MHz, sand, depths 1m, 4m

1B Compute: L1B_S

Layer, 25m, 50traces, 600ps, 128samples
500MHz, clay, depths 1m, 4m

ALTRO CASO:

2A Compute: L2A_S

Layer, 25m, 50traces, 600ps, 512samples
100MHz, sand, depths 1m, 12m

2B Compute: L2B_S

Layer, 25m, 50traces, 600ps, 512samples
100MHz, clay, depths 1m, 12m

CASI con TUBAZIONI:

3 Compute: P1_S

circle, 25m, 50traces, 600ps, 128samples
500MHz, sand,

Position 15m, depth 1m, diameter 0.5m

4 Compute: P2_S

circle, 10m, 100traces, 600ps, 128samples
500MHz, sand,

Position 5m, depth 2m, diameter 0.5m

CASI con CANALI:

5A Compute: C1_S

Channel, 20m, 25traces, 600ps, 128samples

250MHz, sand,

Larghezza top 10m, larghezza bottom 4m, profondità top 1m, profondità bottom 4m

5B Compute: C2_S

Channel, 20m, 200traces, 600ps, 128samples

250MHz, sand,

Larghezza top 10m, larghezza bottom 4m, profondità top 1m, profondità bottom 4m

ELETTRICA: SEV

ESEMPIO-1

min el. spacing 1m, max 100m, n° 20

3 strati

$\rho_1=100 \text{ Ohm}\cdot\text{m}$, $\rho_2=20 \text{ Ohm}\cdot\text{m}$, $\rho_3=500 \text{ Ohm}\cdot\text{m}$

$H_1=10\text{m}$, $H_2=2\text{m}$

ESEMPIO-2

min el. spacing 1m, max 100m, n° 20

3 strati

$\rho_1=200 \text{ Ohm}\cdot\text{m}$, $\rho_2=10 \text{ Ohm}\cdot\text{m}$, $\rho_3=500 \text{ Ohm}\cdot\text{m}$

$H_1=30\text{m}$, $H_2=20\text{m}$

ESEMPIO-3

min el. spacing 1m, max 400m, n° 20

3 strati

$\rho_1=200 \text{ Ohm}\cdot\text{m}$, $\rho_2=10 \text{ Ohm}\cdot\text{m}$, $\rho_3=500 \text{ Ohm}\cdot\text{m}$

$H_1=10\text{m}$, $H_2=20\text{m}$

ESEMPIO-4A

**EQUIVALENZA: CASO CONDUTTANZA LONGITUDINALE, CONDUTTORE
TRA RESISTORI, $z/\rho=\text{COST}$**

CASO PRECEDENTE CON VALORI CORRETTI

min el. spacing 5m, max 200m, n° 30

3 strati

$\rho_1=200 \text{ Ohm}\cdot\text{m}$, $\rho_2=10 \text{ Ohm}\cdot\text{m}$, $\rho_3=500 \text{ Ohm}\cdot\text{m}$

$H_1=10\text{m}$, $H_2=20\text{m}$

ESEMPIO-4B

**EQUIVALENZA: CASO RESISTENZA TRASVERSALE, DIELETTRICO TRA
CONDUTTORI, $z\rho=\text{COST}$**

min el. spacing 5m, max 200m, n° 30

3 strati

$\rho_1=20 \text{ Ohmxm}$, $\rho_2=100 \text{ Ohmxm}$, $\rho_3=5 \text{ Ohmxm}$

$H_1=10\text{m}$, $H_2=20\text{m}$