

HAMS-GPS : Explosion Module

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Date : Friday, February 12, 2016

Data Entered

Reference No. : Explosive-1

Name of Chemical : Straight Dynamite

Scenario : 2. Total quantity explosive under ground

Average depth of the explosive under ground (m): 1.00

Height of simulation (m): 0.1

TNT Equivalent of the chemical : 0.50

Explosion Mass (lbm) : 0.5

Results

Under ground Explosion Summary at ground depth (m) 1.00

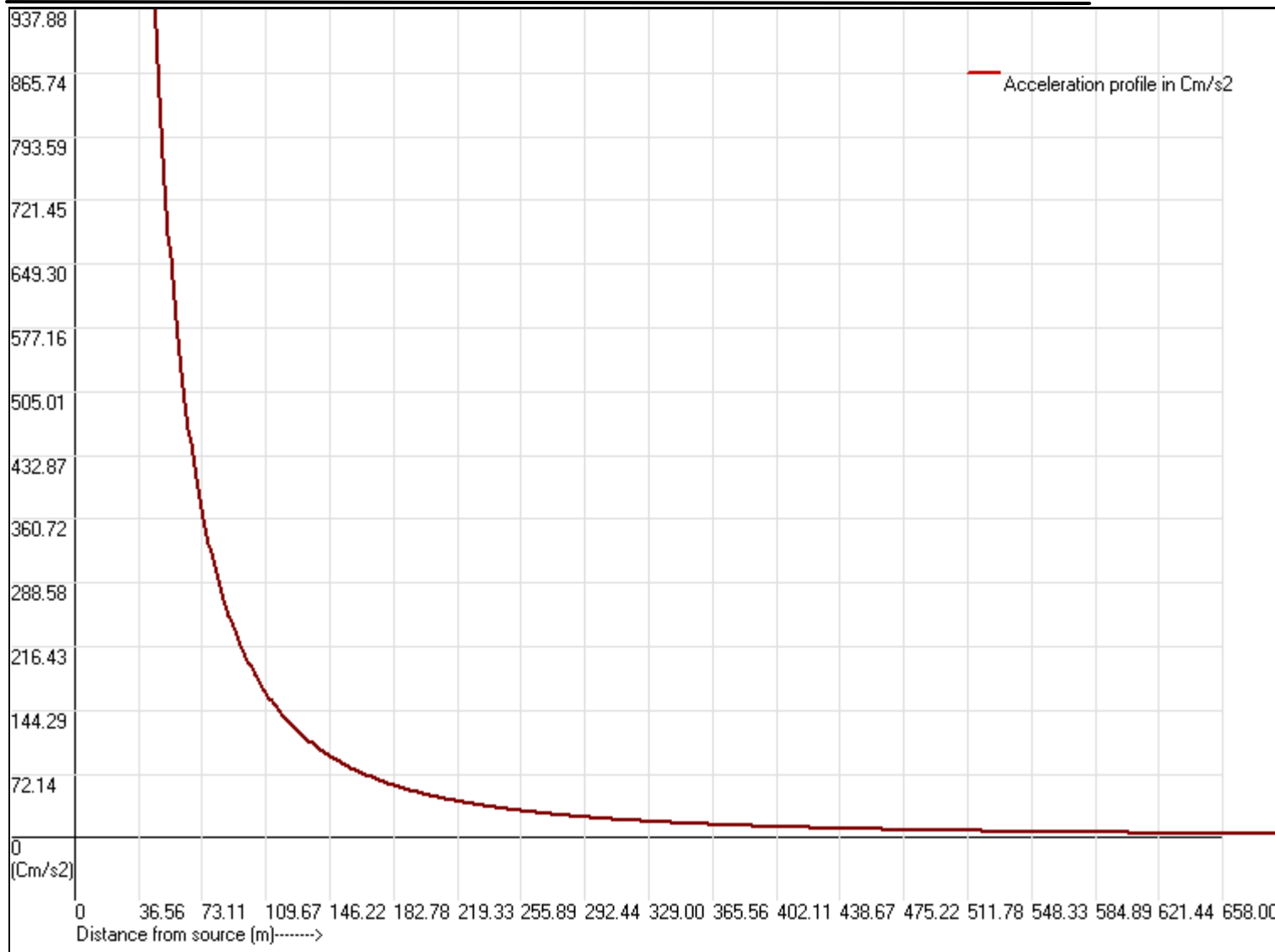
1, Mass of the Explosive used (lbm): Explosion Mass(lbm) : 0.5

(Magnitude : Richter Scale)

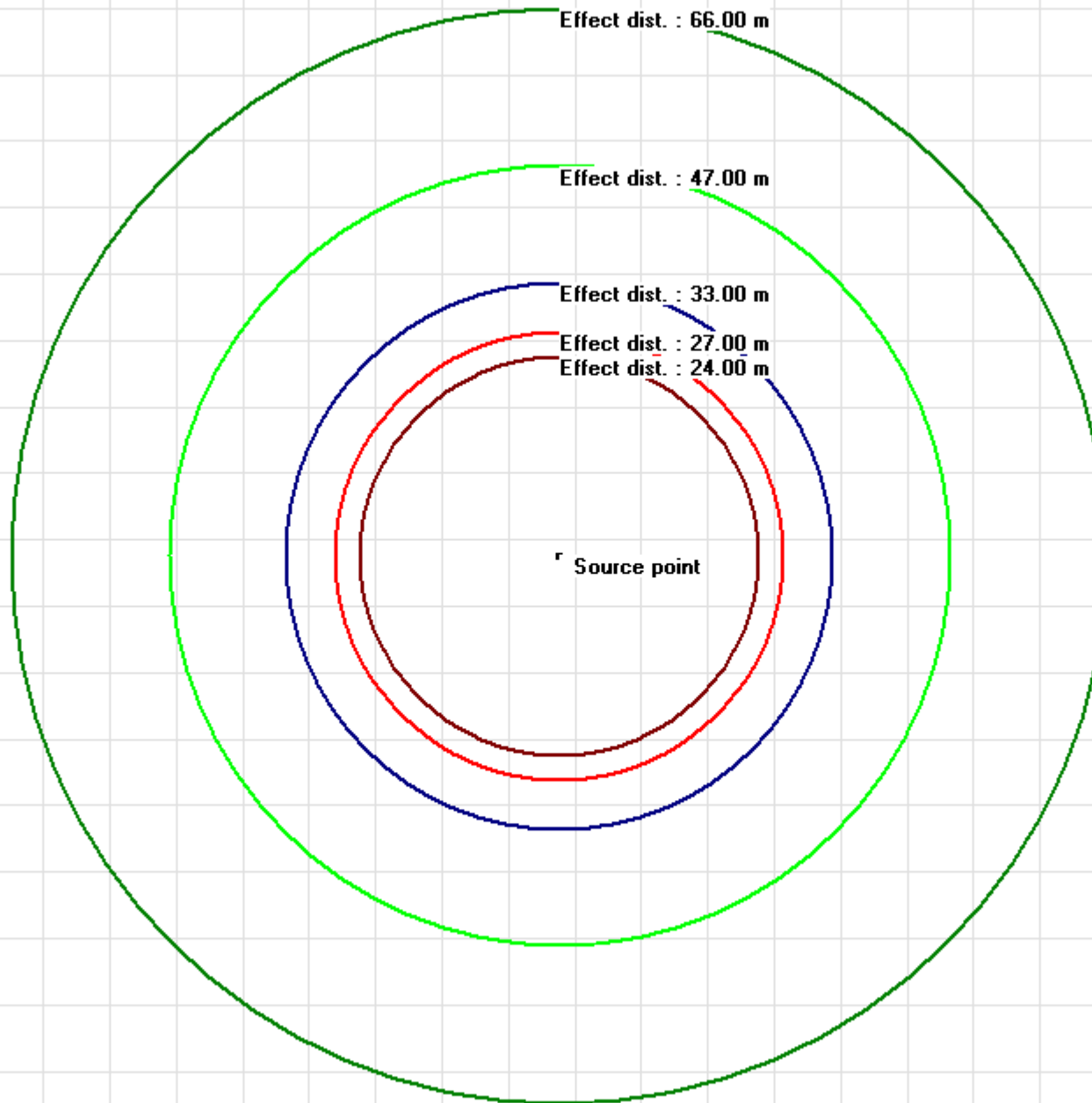
1. Detected only by seismographs. (Magnitude : 1 to 2): 736.00 m
2. Noticed only by sensitive people. (Magnitude : 2 to 3): 658.00 m
3. Resembling vibrations caused by heavy traffic. (Magnitude : 3 to 4): 466.00 m
4. Felt by people walking; rocking of free standing objects. (Magnitude : 4): 233.00 m

5. Sleepers awakened and bells ring. (Magnitude : 4 to 5): 148.00 m
6. Trees sway, some damage from overturning and falling object. (Magnitude : 5 to 6): 105.00 m
7. General alarm, cracking of walls. (Magnitude : 6): 74.00 m
8. Chimneys fall and there is some damage to buildings. (Magnitude : 6 to 7): 66.00 m
9. Ground begins to crack, houses begin to collapse and pipes break.(Magnitude : 7): 47.00 m
10. Ground badly cracked and many buildings are destroyed. There are some landslides.
(Magnitude : 7 to 8): 33.00 m
11. Few buildings remain standing; bridges and railways destroyed; water, gas, electricity
and telephones out of action. (Magnitude : 8): 27.00 m
12. Total destruction; objects are thrown into the air, much heaving, shaking and distortion of the ground.
(Magnitude : >8.1): 24.00 m

Acceleration profile in Cm/s²



HAMS-GPS : Explosion Model
Scenario: 2. Total quantity explosive under ground
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Scale: 1 : 8.00 m



- Magnitude >8.1: m 24.00
- Magnitude 8: m 27.00
- Magnitude 7 to 8: m 33.00
- Magnitude 7: m 47.00
- Magnitude 6 to 7: m 66.00