

**Time:** April 3, 2012 1058 hours ST (user specified)

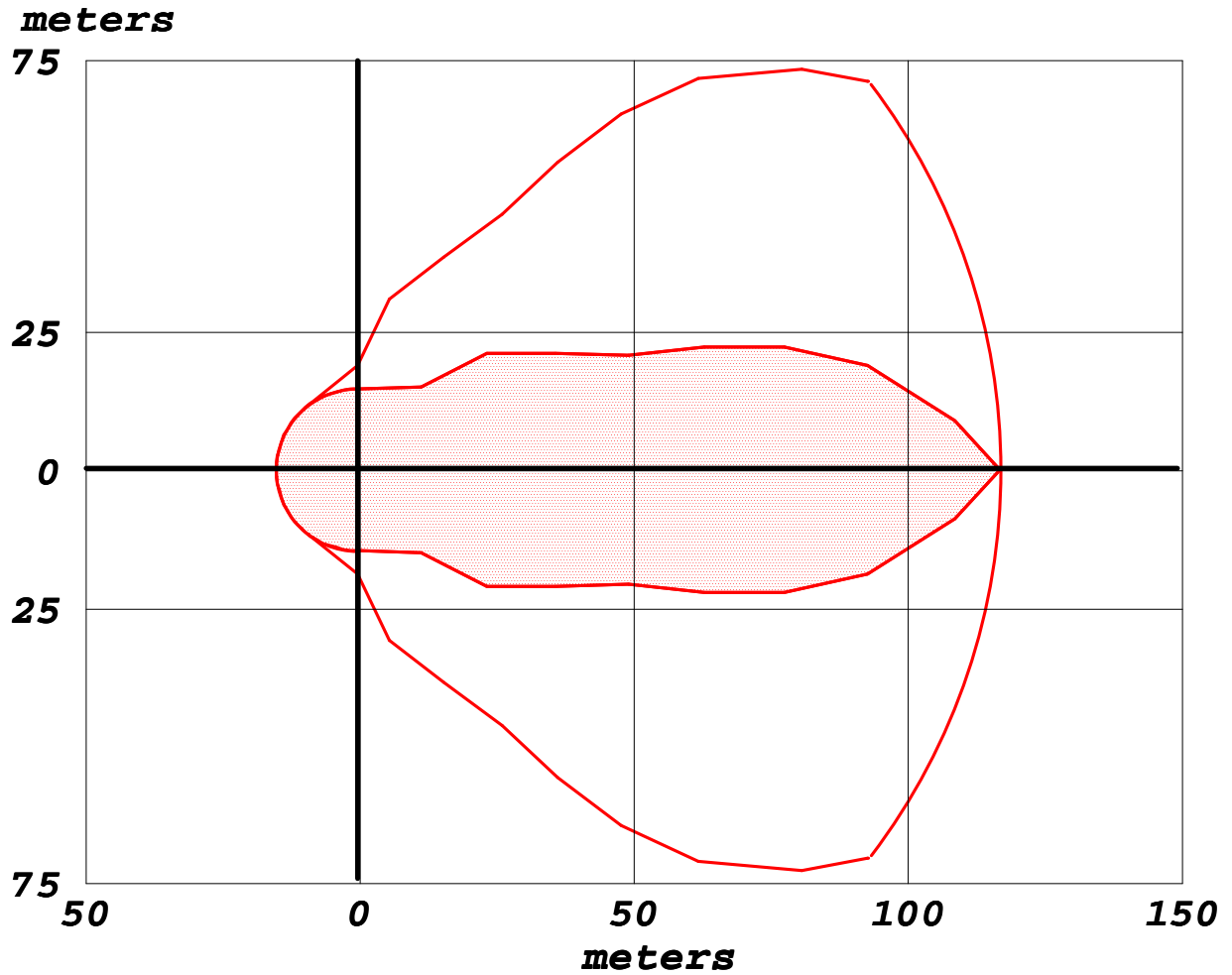
**Chemical Name:** METHANE



**Wind:** 2.8 meters/second from 315° true at 10 meters

**THREAT ZONE:**

**Model Run:** Heavy Gas

**Red** : 117 meters --- (30000 ppm)



-  greater than 30000 ppm
-  Confidence Lines

**SITE DATA:**

**Location:** MORA, PORTUGAL  
**Building Air Exchanges Per Hour:** 0.30 (unsheltered double storied)  
**Time:** April 3, 2012 1058 hours ST (user specified)

**CHEMICAL DATA:**

**Chemical Name:** METHANE **Molecular Weight:** 16.04 g/mol  
**PAC-1:** 2900 ppm **PAC-2:** 2900 ppm **PAC-3:** 17000 ppm  
**LEL:** 50000 ppm **UEL:** 150000 ppm  
**Ambient Boiling Point:** -161.6° C  
**Vapor Pressure at Ambient Temperature:** greater than 1 atm  
**Ambient Saturation Concentration:** 1,000,000 ppm or 100.0%

**ATMOSPHERIC DATA: (MANUAL INPUT OF DATA)**

**Wind:** 2.8 meters/second from 315° true at 10 meters  
**Ground Roughness:** open country **Cloud Cover:** 5 tenths  
**Air Temperature:** 22° C **Stability Class:** B  
**No Inversion Height** **Relative Humidity:** 25%

**SOURCE STRENGTH:**

**Evaporating Puddle (Note: chemical is flammable)**  
**Puddle Area:** 428 square meters **Puddle Mass:** 50.4 tons  
**Ground Type:** Concrete **Ground Temperature:** 22° C  
**Initial Puddle Temperature:** -161.6° C  
**Release Duration:** 48 minutes  
**Max Average Sustained Release Rate:** 5,100 kilograms/min  
(averaged over a minute or more)  
**Total Amount Released:** 45,722 kilograms

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