



**NTSB** National Transportation Safety Board

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*Office of Aviation Safety*

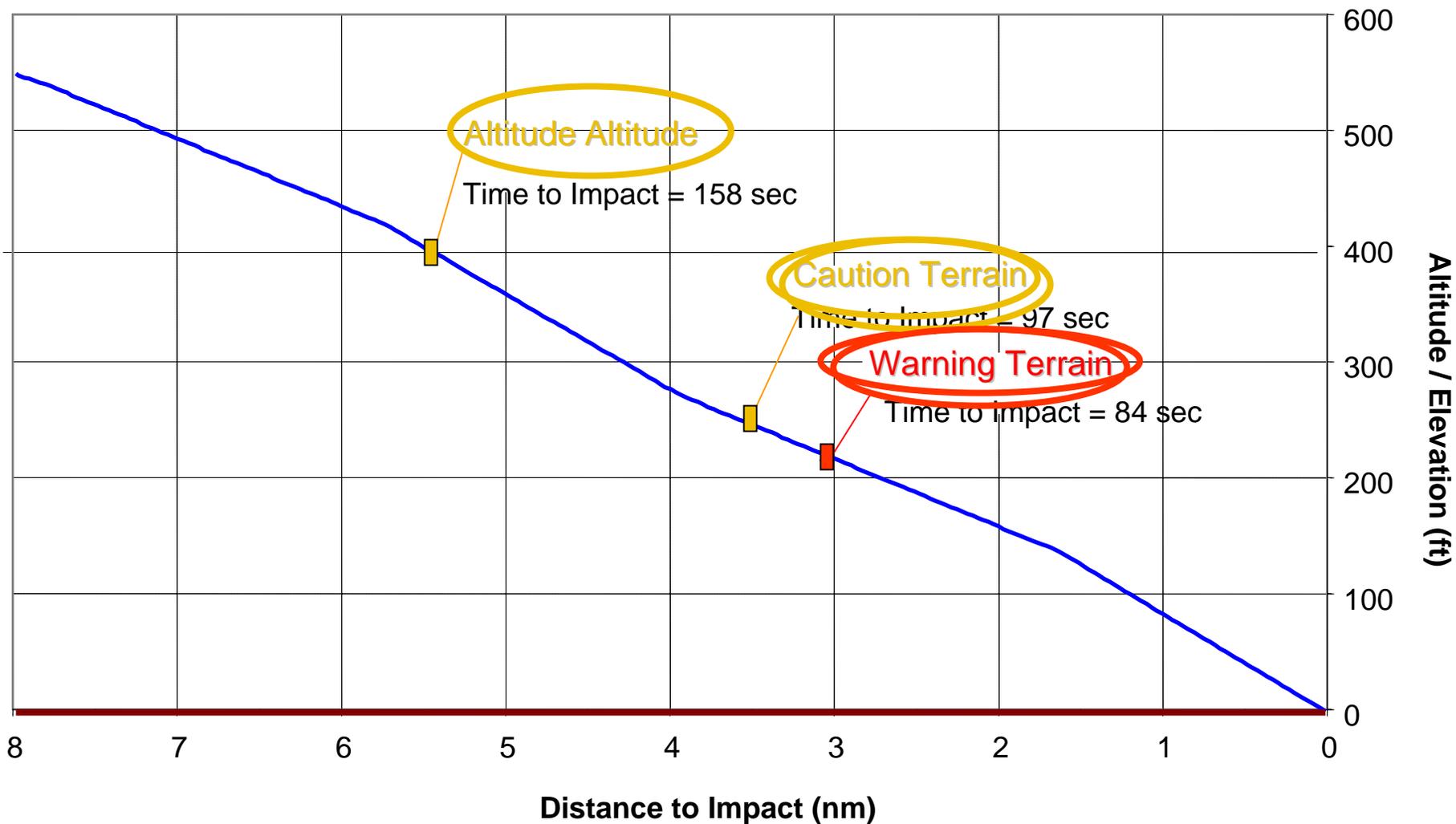
## **Terrain Awareness and Warning System**



# TAWS Background

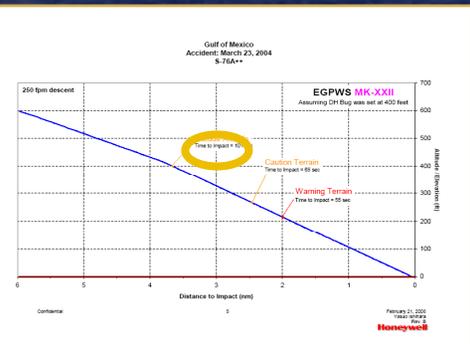
- Ability to look ahead of aircraft
- Required on turbine-powered airplanes
- Not required on turbine-powered helicopters

# Flight Profile at 150 fpm



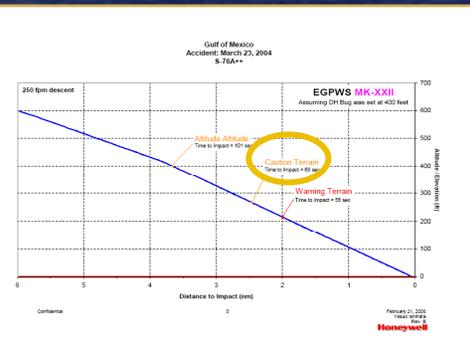
# Screen Display at 400 Feet

“Altitude, Altitude”



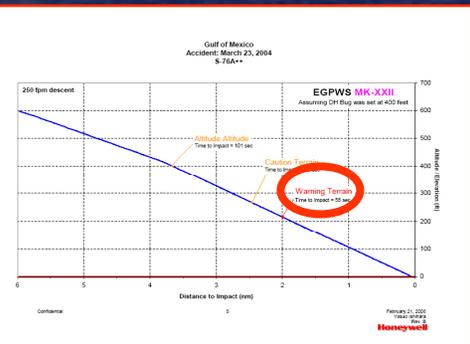
# Screen Display at 250 Feet

“Caution Terrain”

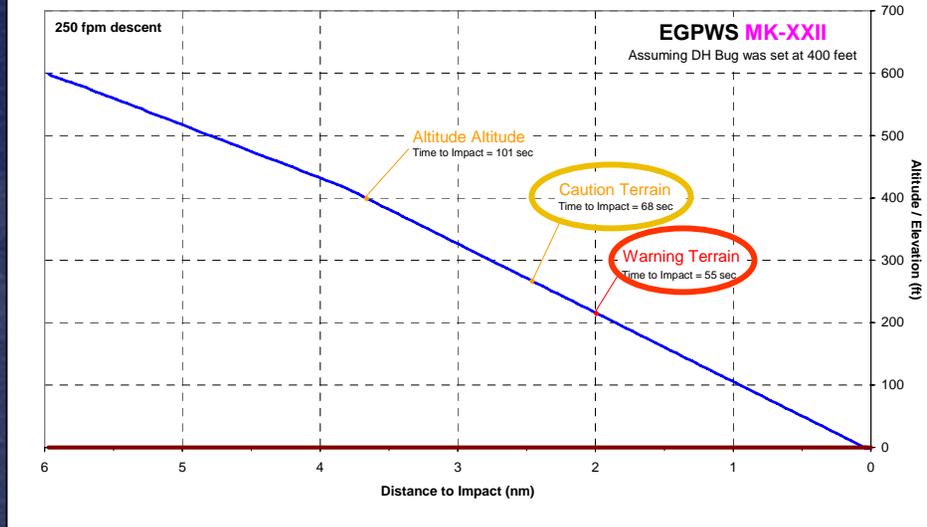


# Screen Display at 210 Feet

“Warning Terrain”



Gulf of Mexico  
Accident: March 23, 2004  
S-76A++



“Caution Terrain”



“Warning Terrain”





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