



National  
Transportation  
Safety Board

# Terrain Awareness and Warning System (TAWS)

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Systems



# Honeywell TAWS

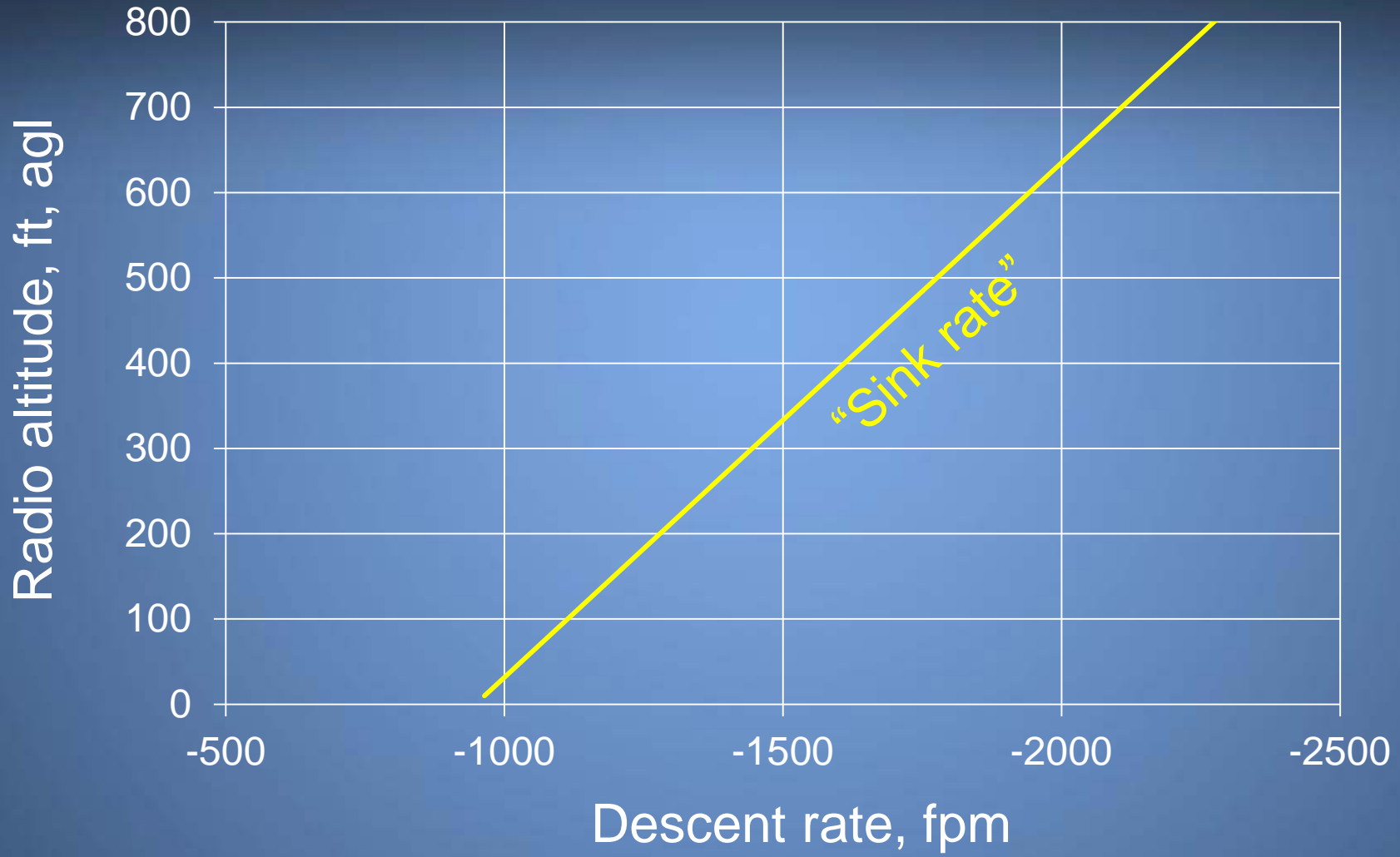
- MK V EGPWS
- Multiple different alert functions
  - Basic modes 1-6
  - Enhanced functions



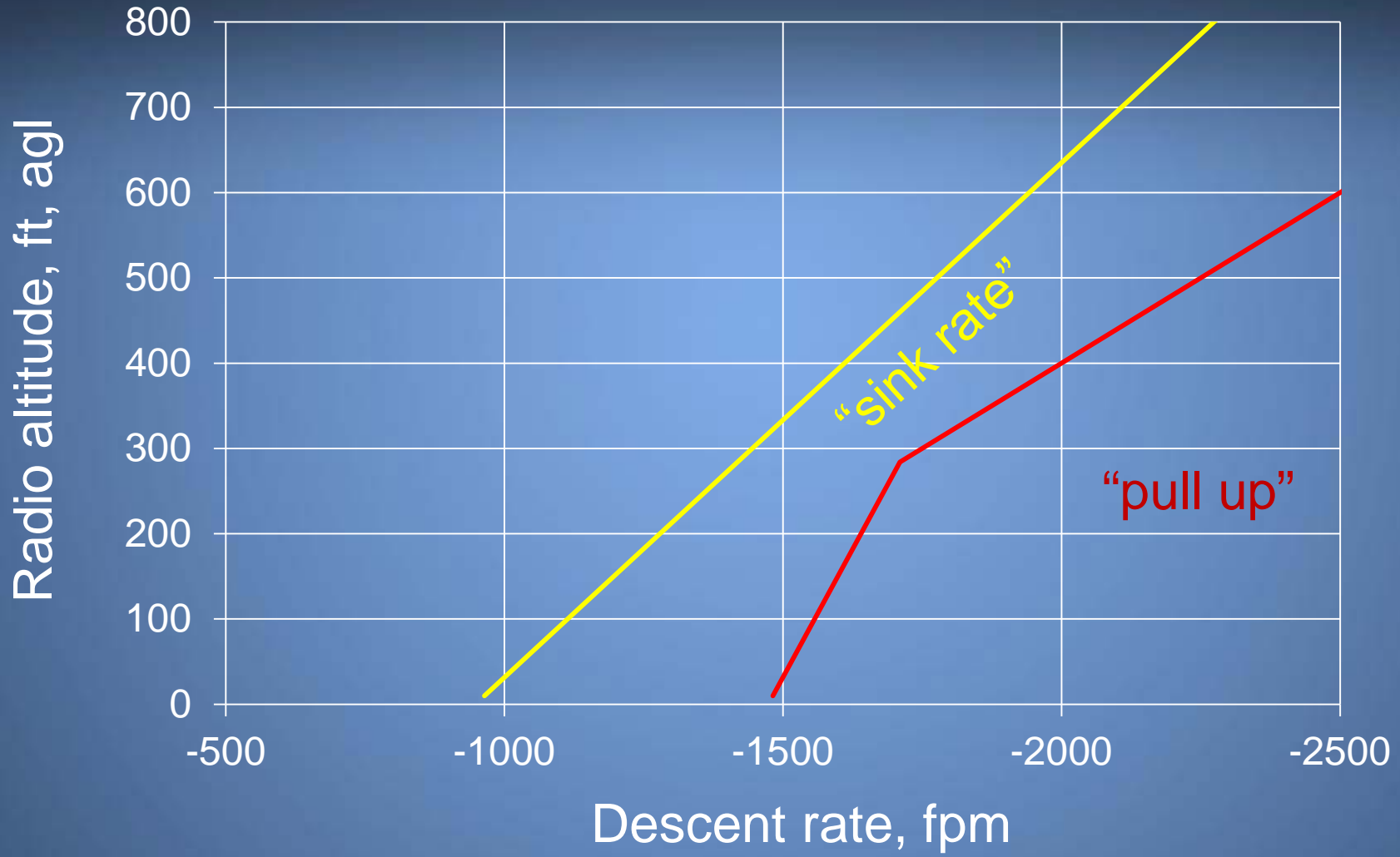
# TAWS Alert Modes

- Mode 1- excessive decent rate
  - “Sink rate” or “pull up”
- Terrain clearance floor
  - “Too low terrain”
- EGPWS limitations on approach to landing

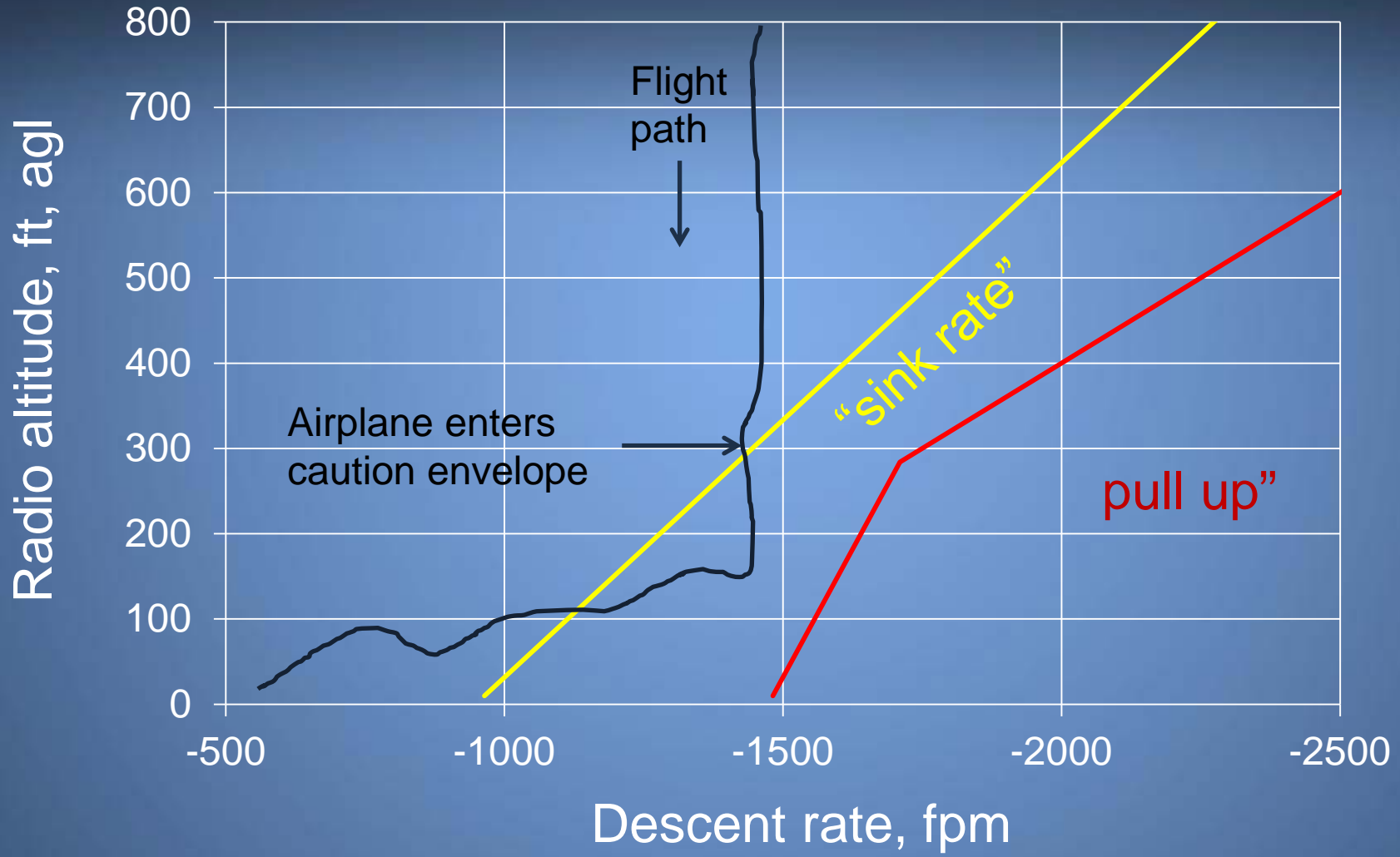
# Mode 1 "Sink Rate" Alert



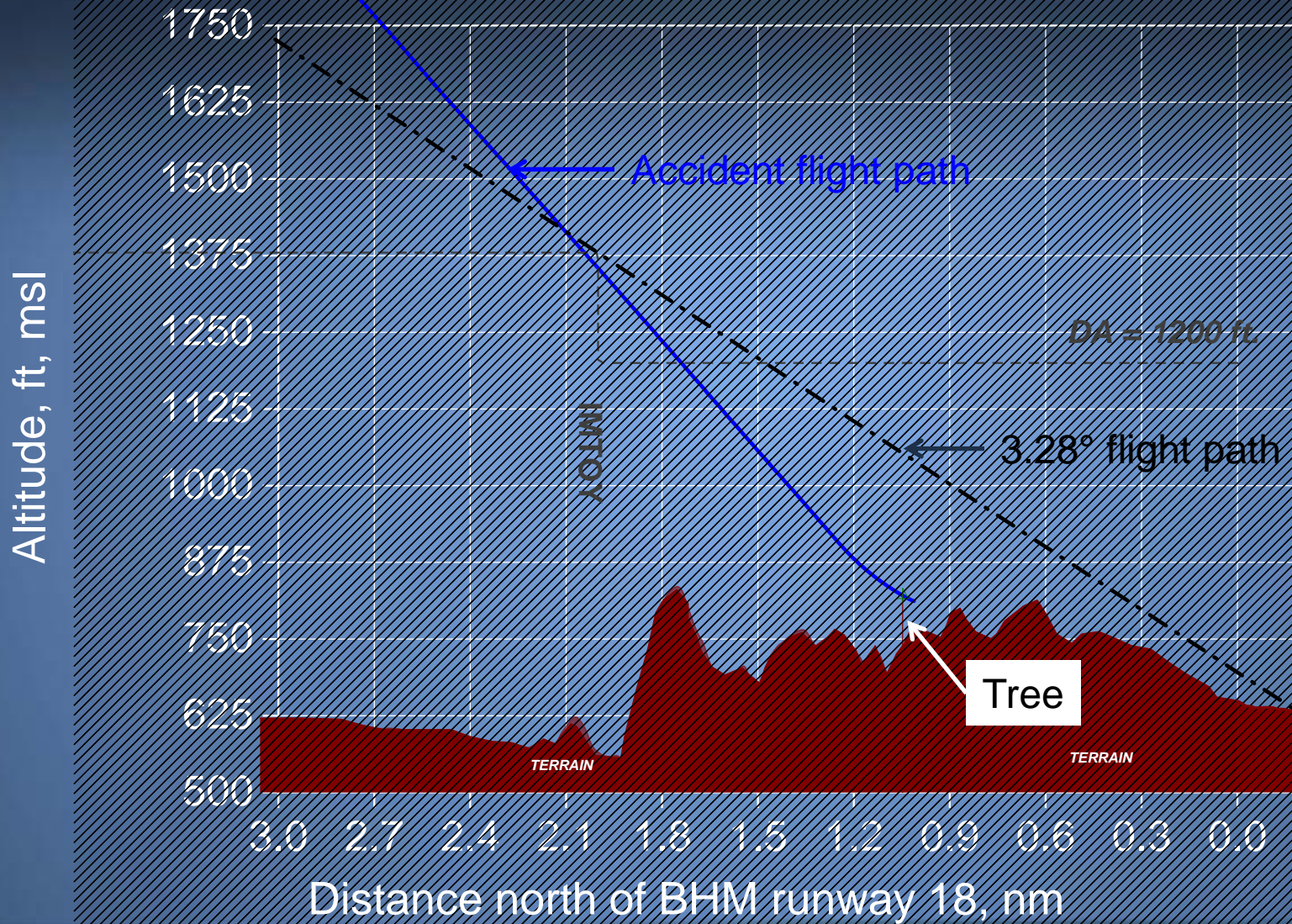
# Mode 1 "Sink Rate" Alert



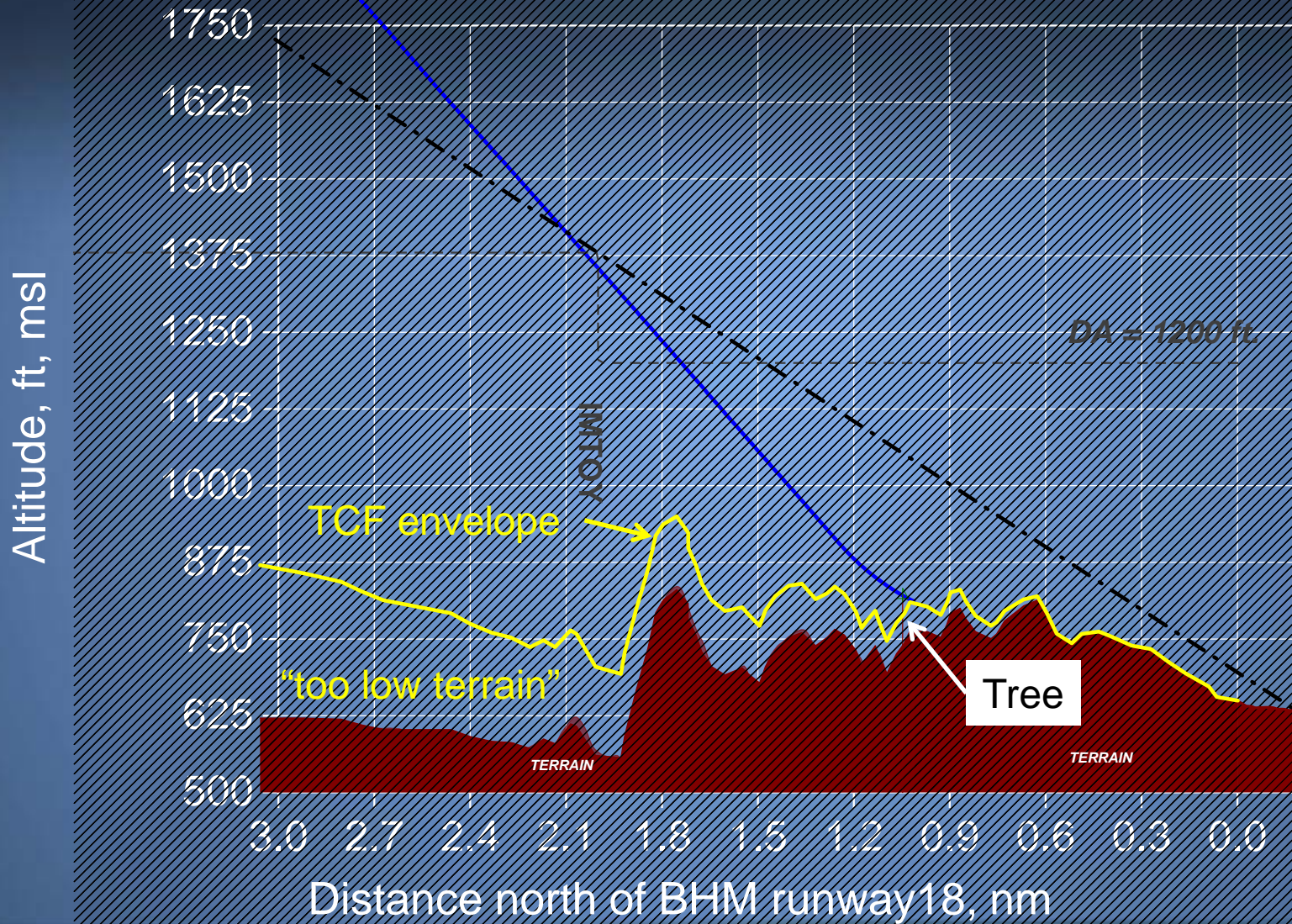
# Mode 1 "Sink Rate" Alert



# EGPWS Terrain Clearance Floor

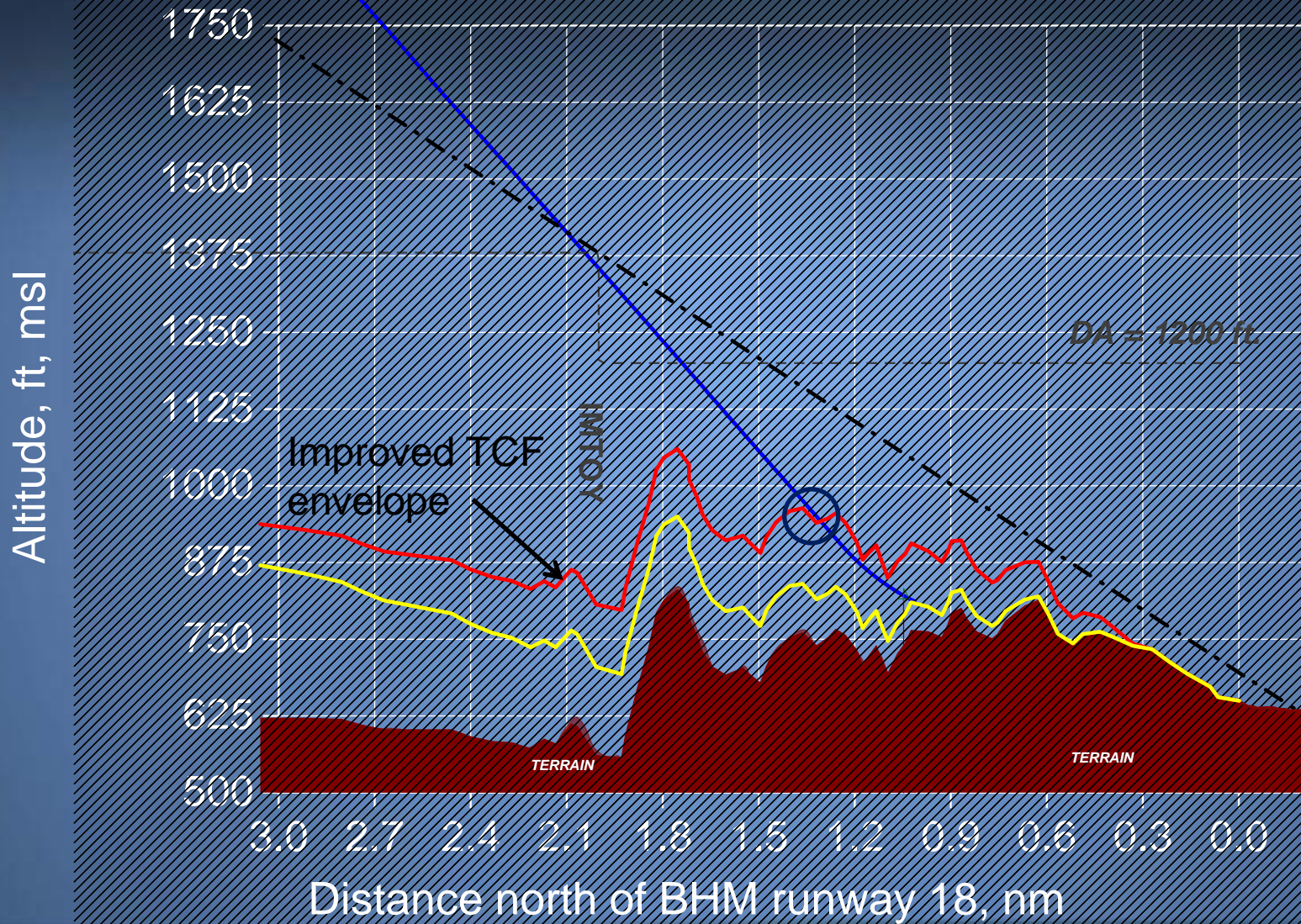


# EGPWS Terrain Clearance Floor





# EGPWS Terrain Clearance Floor



# EGPWS Limitations on Approach

- Mode 2 - Excessive closure rate to terrain envelope substantially reduced
- Terrain awareness look-ahead alerting desensitized
- Terrain clearance floor less effective with high descent rates



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