

## Case of Studie #1



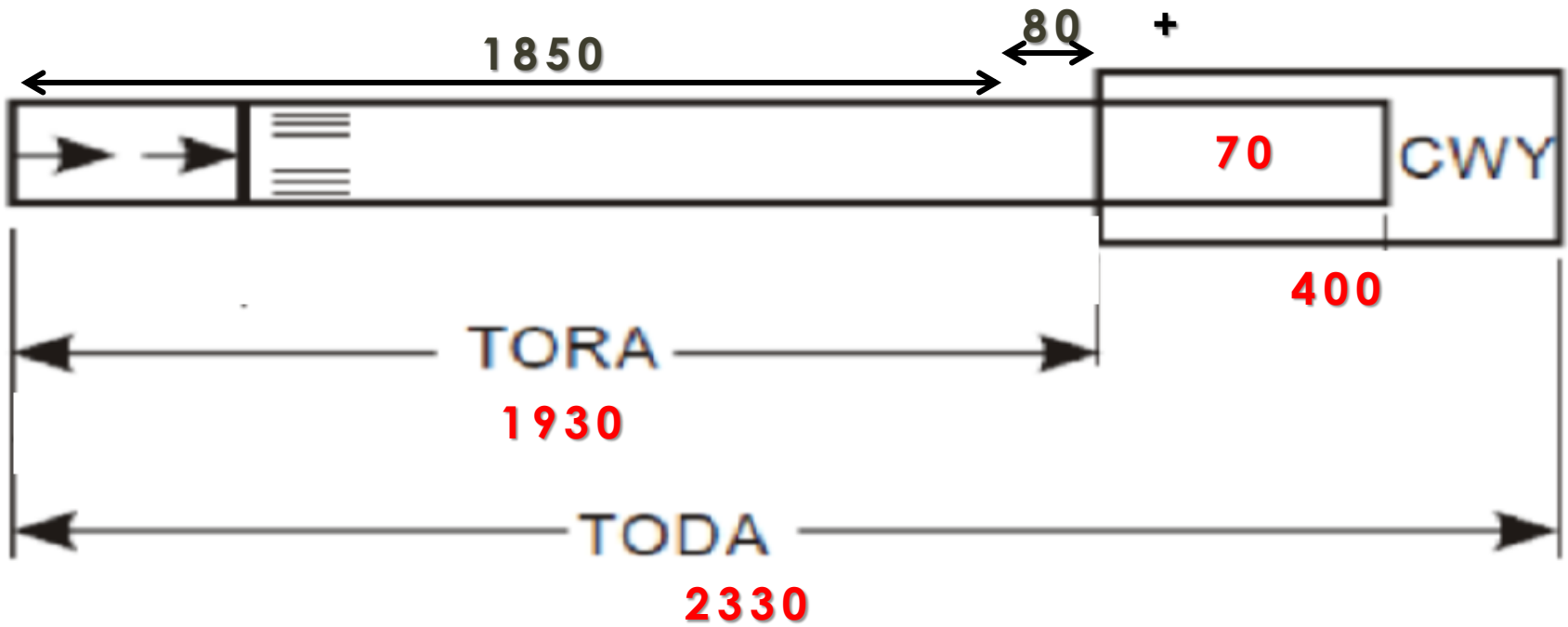
# Options

- Reduction of RWY Length (35% payload reduction)
- Build an EMA's
- Build Over the Sea

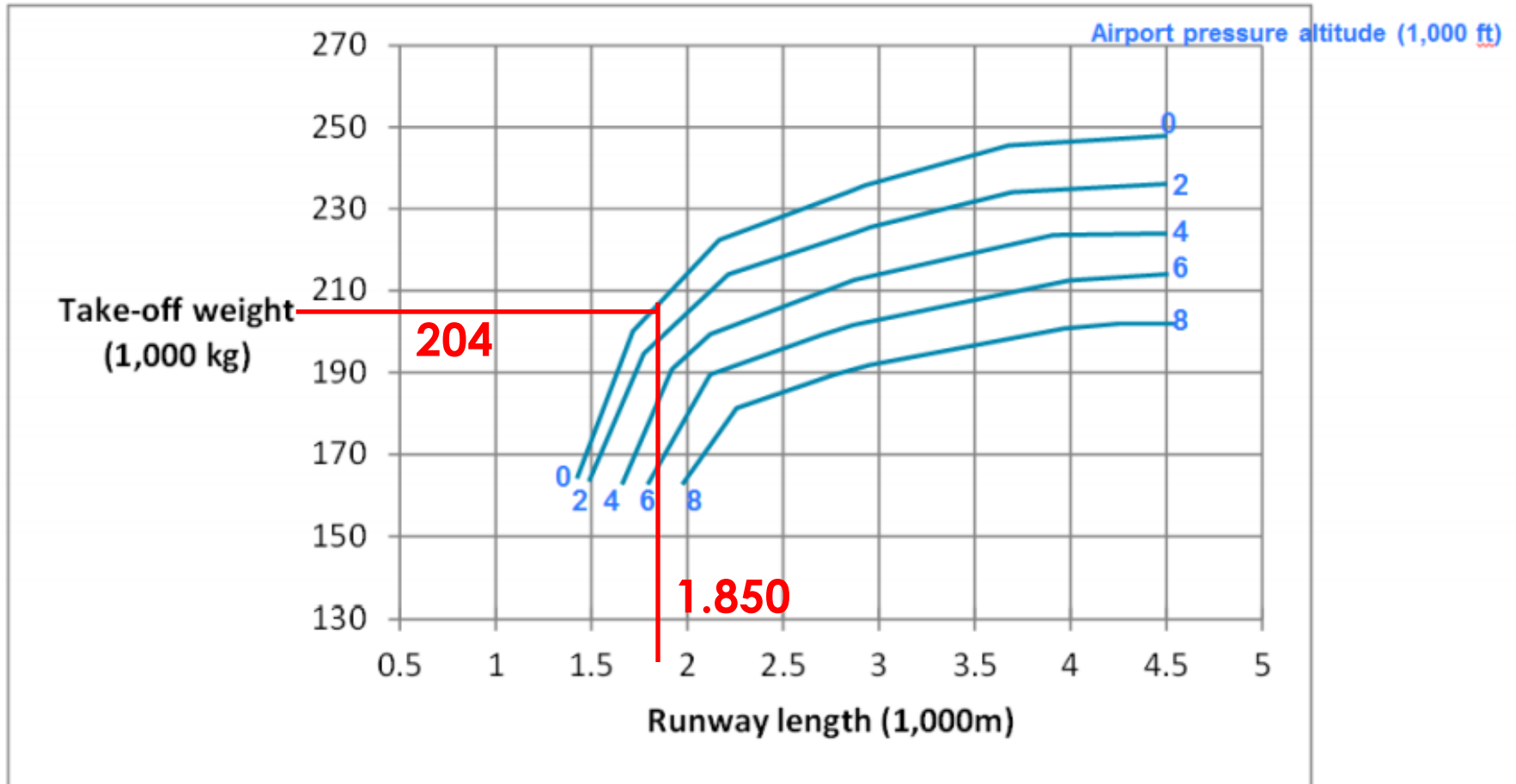
# Existing Situation



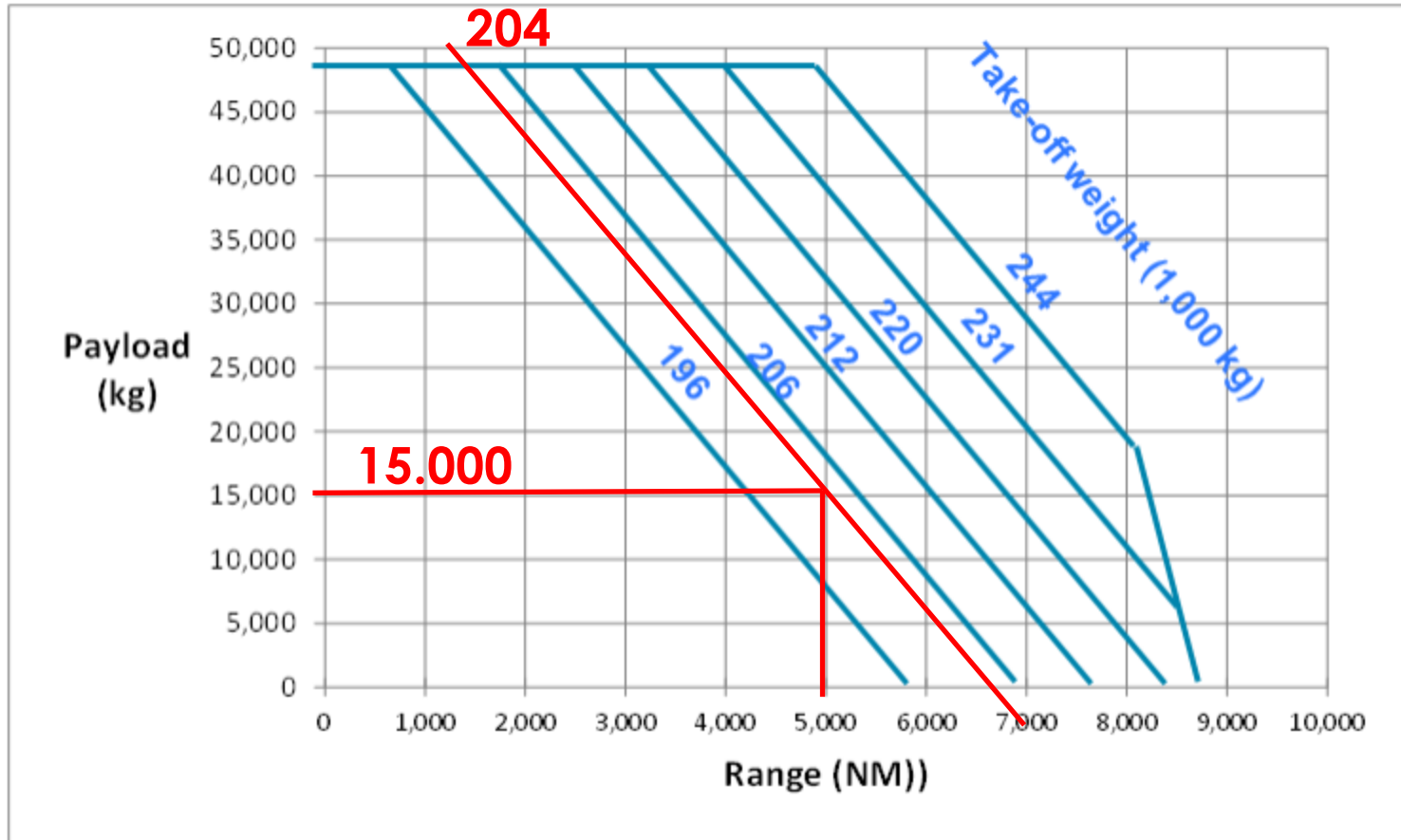
# Option #1



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**Runway 1.850m = Payload 15.000kg → Reduction of 35%**

## Option #2

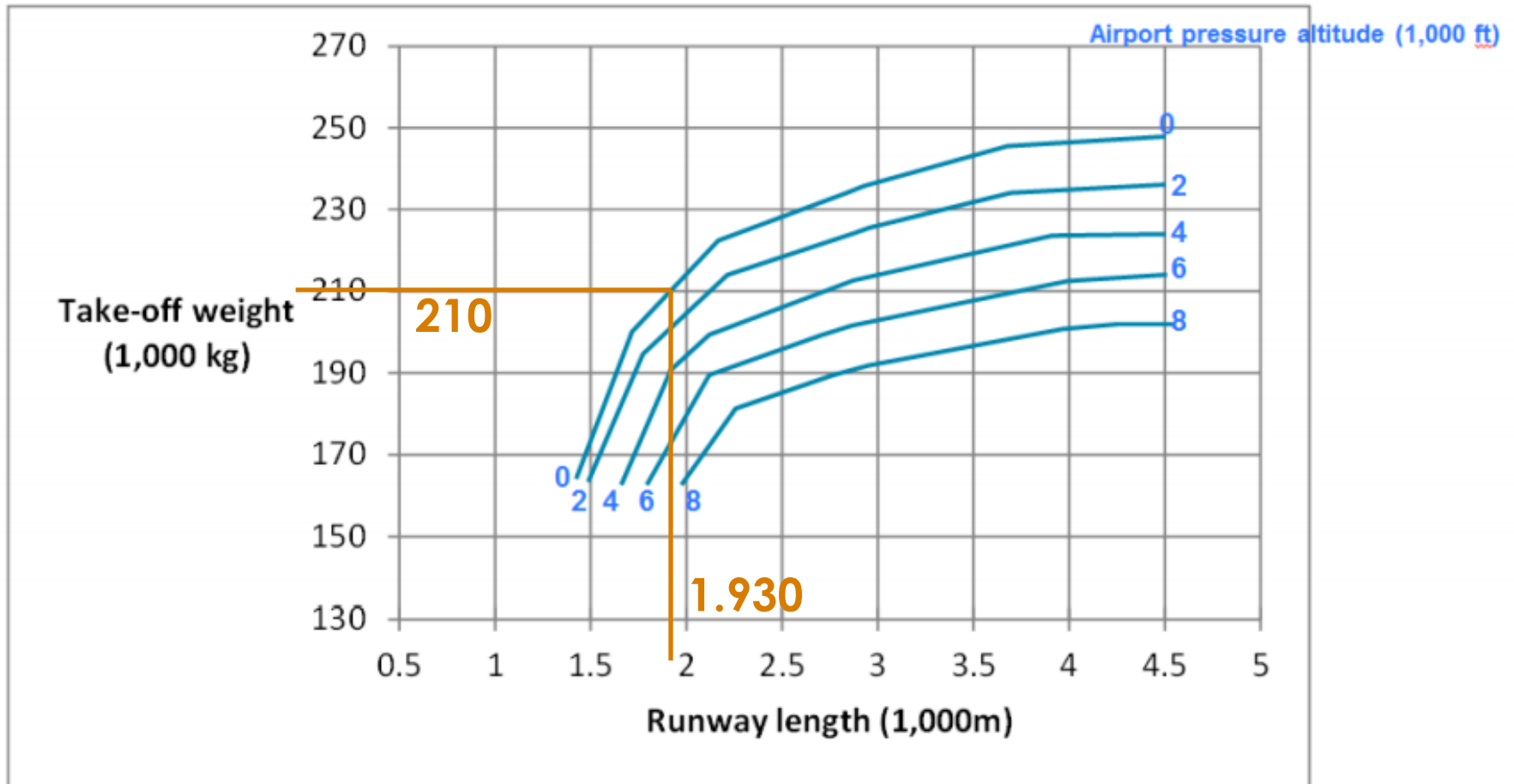
- EMAS: considerar 12 Millones US dollars

## Build over the Sea

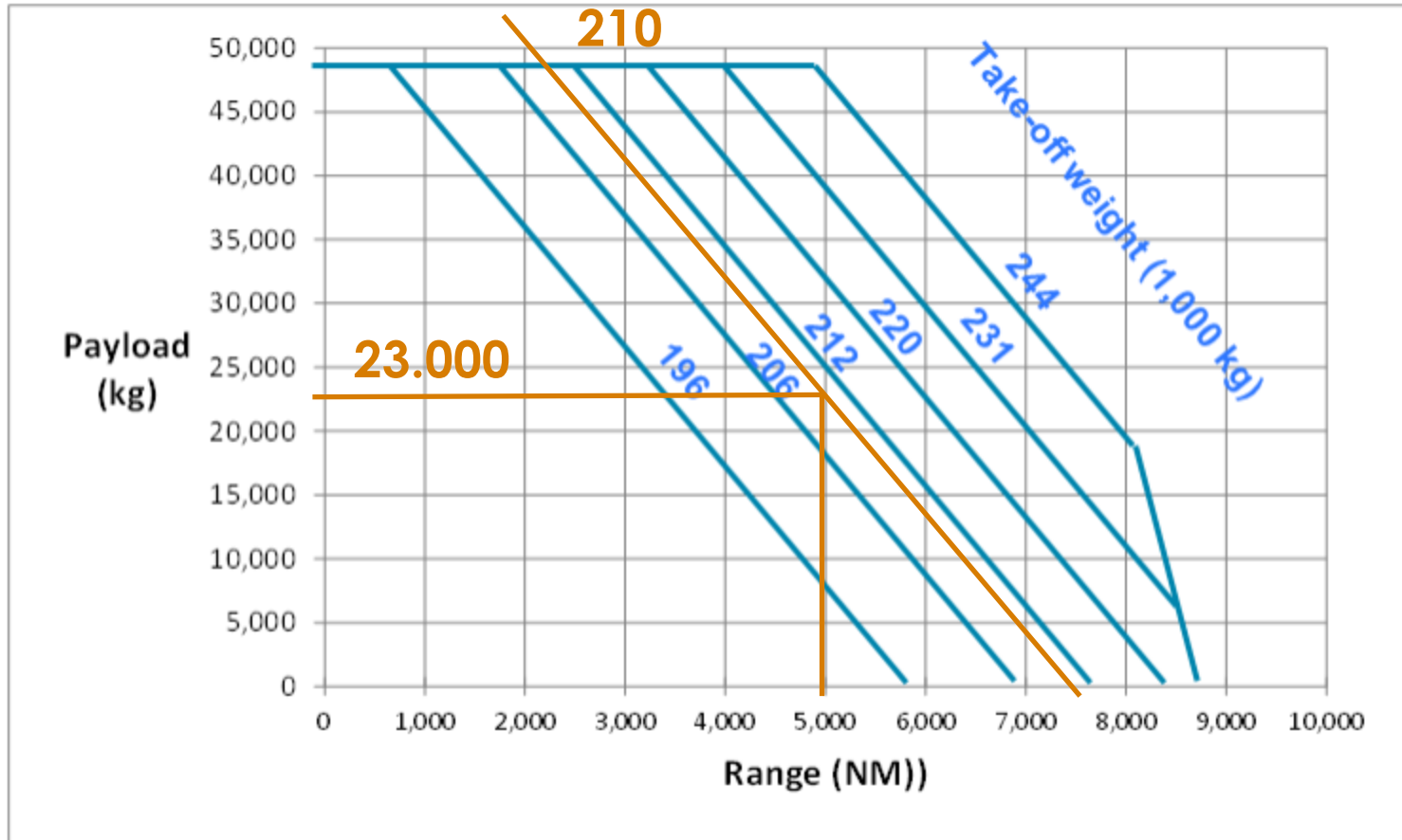
- 3.1 Existing conditions: build an 80x90 area
  
- 3.2 Build an 150x90 area, use the 70m existing to lengthen the runway



# Option #3.1

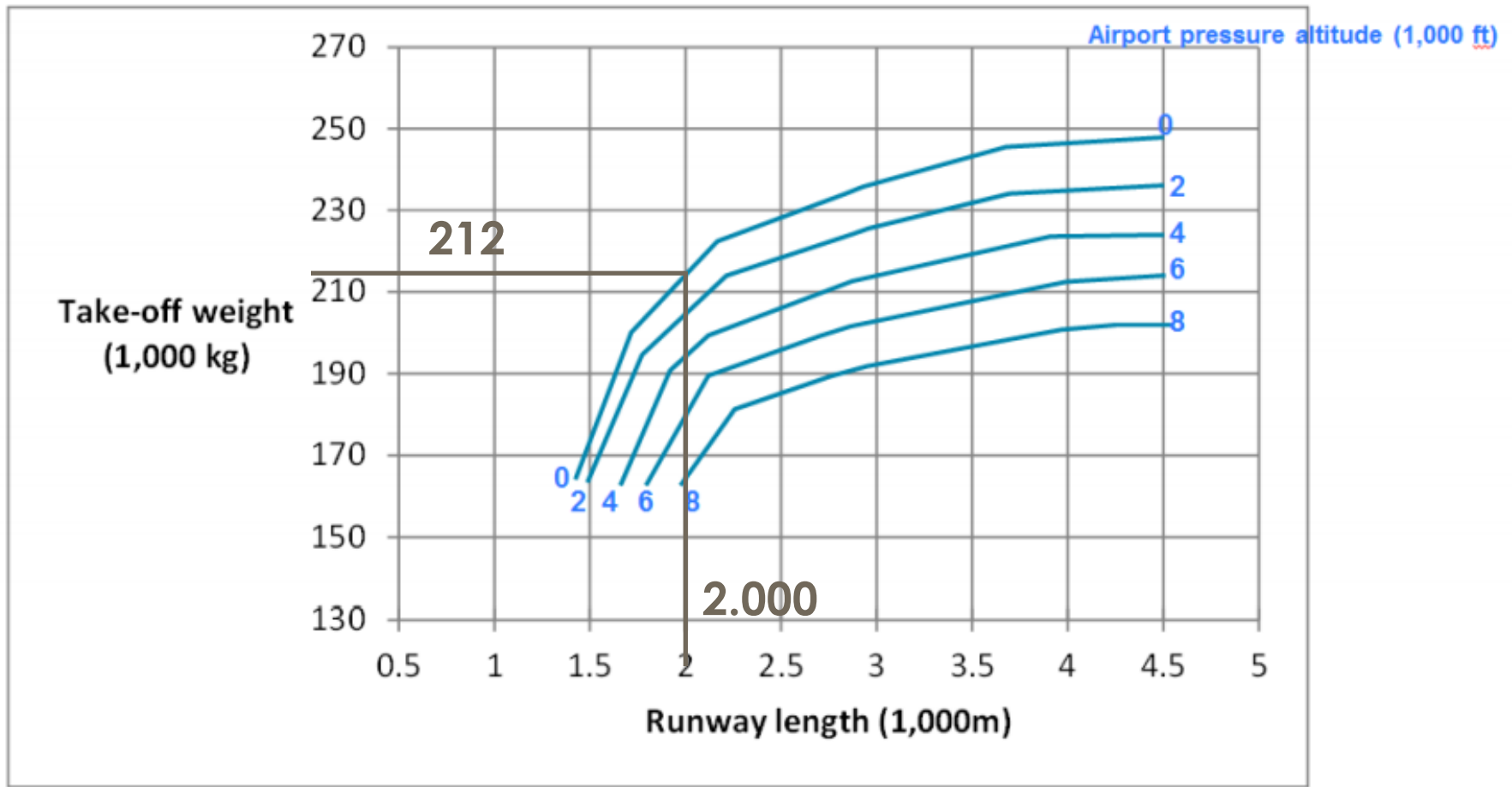


# Option #3.1

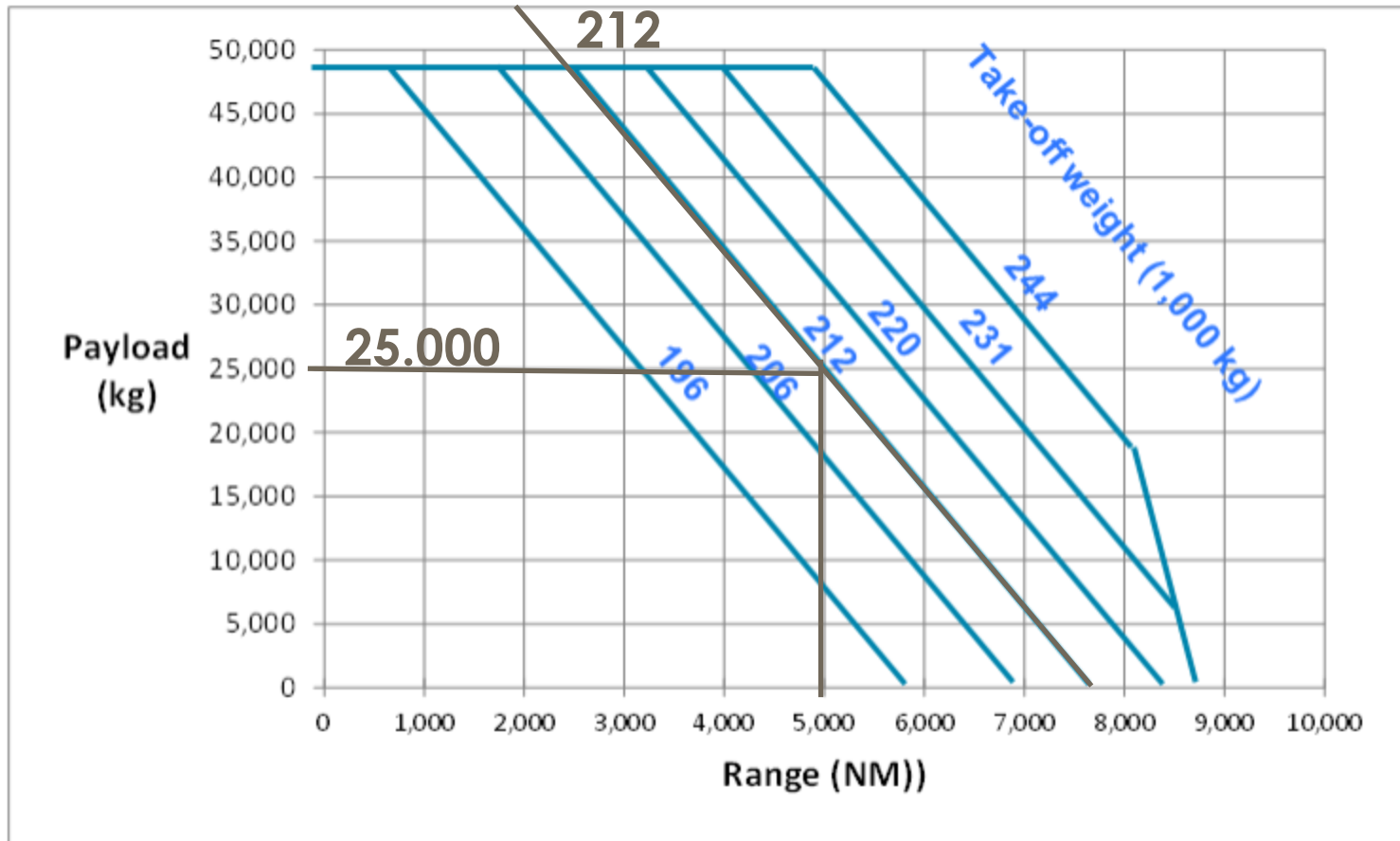


**Runway 1.930m = Payload 23.000kg**

# Option #3.2



# Option #3.2



**Runway 2.000m = Payload 25.000kg (max)**  
**Increase of 70m (1930 +70) and build 150m over the sea (60m strip and 90m RESA)**

# Build over the Sea

3.1 Existing conditions: build an 80x90 area

3.2 Build an 150x90 area

<b>Distance</b>	<b>Cost (millions)</b>
$90 * 80 = 7200 \text{ m}^2$	2.5
$90 * 150 = 13500 \text{ m}^2$	4.8

\*This costs presented doesn't include de pavement costs.

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