

FLIGHT PLANNING

NAM VS NGM

$$\frac{NAM}{TAS} = \frac{NGM}{GS}$$

$$NGM = NAM \pm \left(\frac{W/C \times t}{60} \right)$$

EQUAL TIME POINTS

$$PET = \frac{D \times H}{O + H}$$

- D = Distance
- H = TAS Home (OEI)
- O = TAS Destination (OEI)

* Time to PET calculated with all engines TAS

POINT OF SAFE RETURN

PSR FORMULA

$$PSR = \frac{E \times O \times H}{O + H}$$

- E = Endurance (Decimals)
- H = GS Home (OEI)
- O = GS Destination (All Engines)

* Time to PST calculated with all engines TAS

$$PSR = \frac{Block - Reserve Fuel}{FC_O + FC_H}$$

- FC_O = Fuel Consumption Out
- FC_O = Fuel Consumption Home

$$FC = \frac{Fuel Flow}{GS}$$

TERMINOLOGY

FUEL

- Fuel “required” at destination”
 - ALT
 - FINAL
- Fuel “required” at destination”
 - ALT
 - FINAL
 - CONT

FLIGHT LEVELS

- Always use RVSM flight levels unless it specifies ‘ICAO rules’