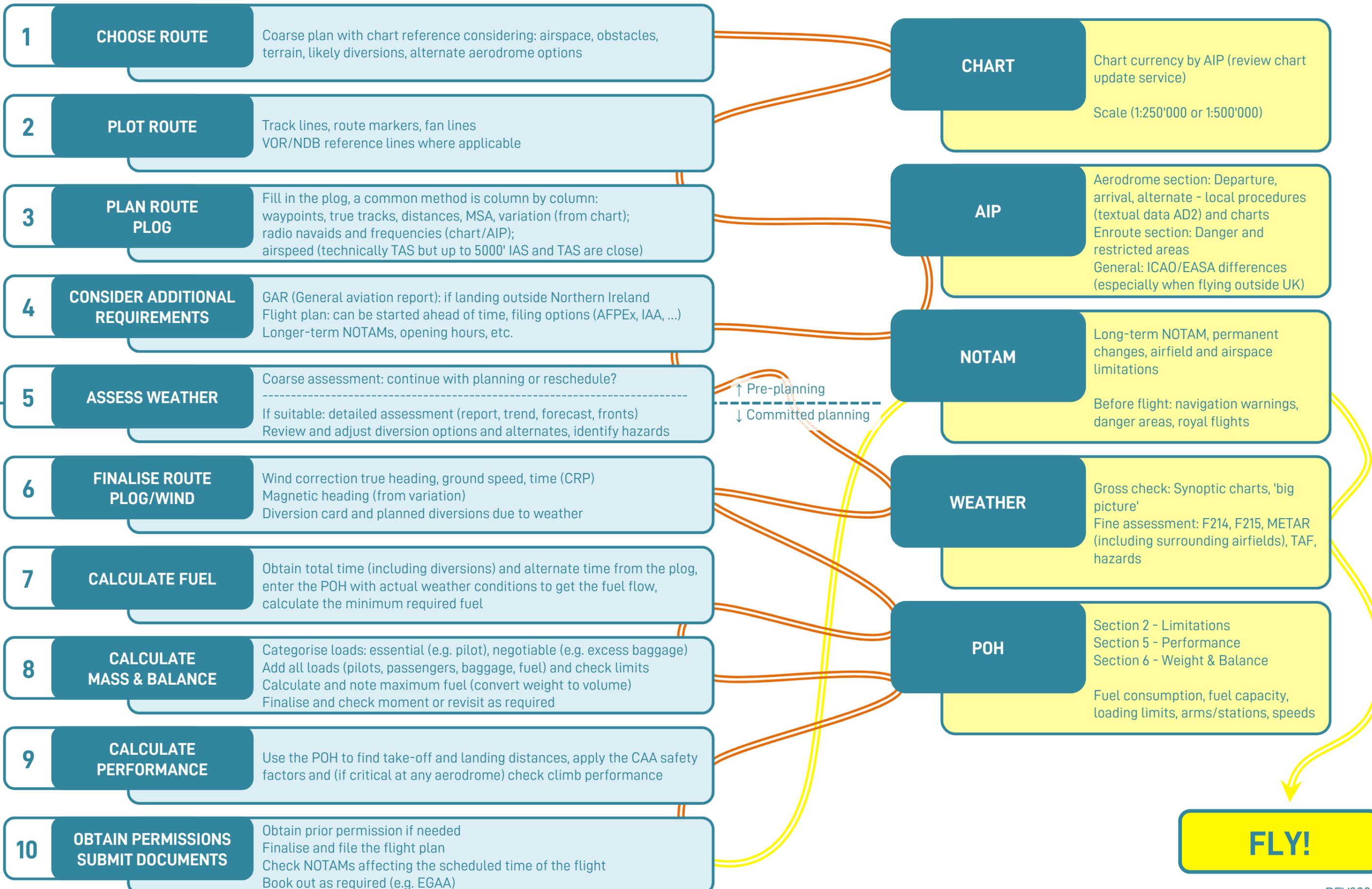


# FLIGHT PLANNING WORKFLOW



- 1 CHOOSE ROUTE** Coarse plan with chart reference considering: airspace, obstacles, terrain, likely diversions, alternate aerodrome options
- 2 PLOT ROUTE** Track lines, route markers, fan lines  
VOR/NDB reference lines where applicable
- 3 PLAN ROUTE PLOG** Fill in the plog, a common method is column by column: waypoints, true tracks, distances, MSA, variation (from chart); radio nav aids and frequencies (chart/AIP); airspeed (technically TAS but up to 5000' IAS and TAS are close)
- 4 CONSIDER ADDITIONAL REQUIREMENTS** GAR (General aviation report): if landing outside Northern Ireland  
Flight plan: can be started ahead of time, filing options (AFPEX, IAA, ...)  
Longer-term NOTAMs, opening hours, etc.
- 5 ASSESS WEATHER** Coarse assessment: continue with planning or reschedule?  
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If suitable: detailed assessment (report, trend, forecast, fronts)  
Review and adjust diversion options and alternates, identify hazards
- 6 FINALISE ROUTE PLOG/WIND** Wind correction true heading, ground speed, time (CRP)  
Magnetic heading (from variation)  
Diversion card and planned diversions due to weather
- 7 CALCULATE FUEL** Obtain total time (including diversions) and alternate time from the plog, enter the POH with actual weather conditions to get the fuel flow, calculate the minimum required fuel
- 8 CALCULATE MASS & BALANCE** Categorise loads: essential (e.g. pilot), negotiable (e.g. excess baggage)  
Add all loads (pilots, passengers, baggage, fuel) and check limits  
Calculate and note maximum fuel (convert weight to volume)  
Finalise and check moment or revisit as required
- 9 CALCULATE PERFORMANCE** Use the POH to find take-off and landing distances, apply the CAA safety factors and (if critical at any aerodrome) check climb performance
- 10 OBTAIN PERMISSIONS SUBMIT DOCUMENTS** Obtain prior permission if needed  
Finalise and file the flight plan  
Check NOTAMs affecting the scheduled time of the flight  
Book out as required (e.g. EGAA)

**CHART**

- Chart currency by AIP (review chart update service)
- Scale (1:250'000 or 1:500'000)

**AIP**

- Aerodrome section: Departure, arrival, alternate - local procedures (textual data AD2) and charts
- Enroute section: Danger and restricted areas
- General: ICAO/EASA differences (especially when flying outside UK)

**NOTAM**

- Long-term NOTAM, permanent changes, airfield and airspace limitations
- Before flight: navigation warnings, danger areas, royal flights

**WEATHER**

- Gross check: Synoptic charts, 'big picture'
- Fine assessment: F214, F215, METAR (including surrounding airfields), TAF, hazards

**POH**

- Section 2 - Limitations
- Section 5 - Performance
- Section 6 - Weight & Balance
- Fuel consumption, fuel capacity, loading limits, arms/stations, speeds

**FLY!**