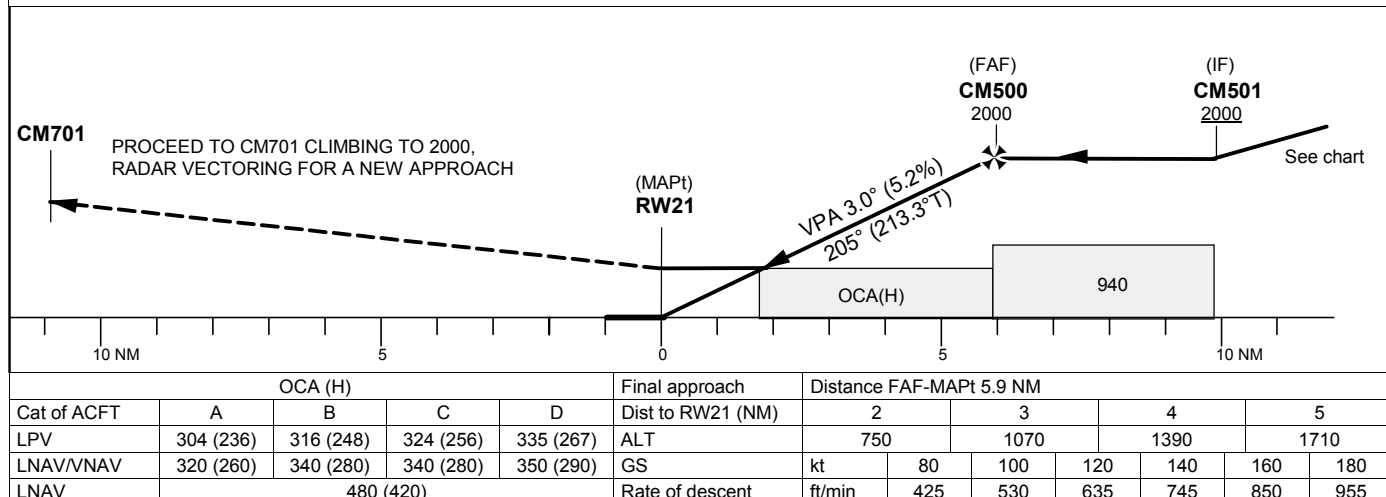
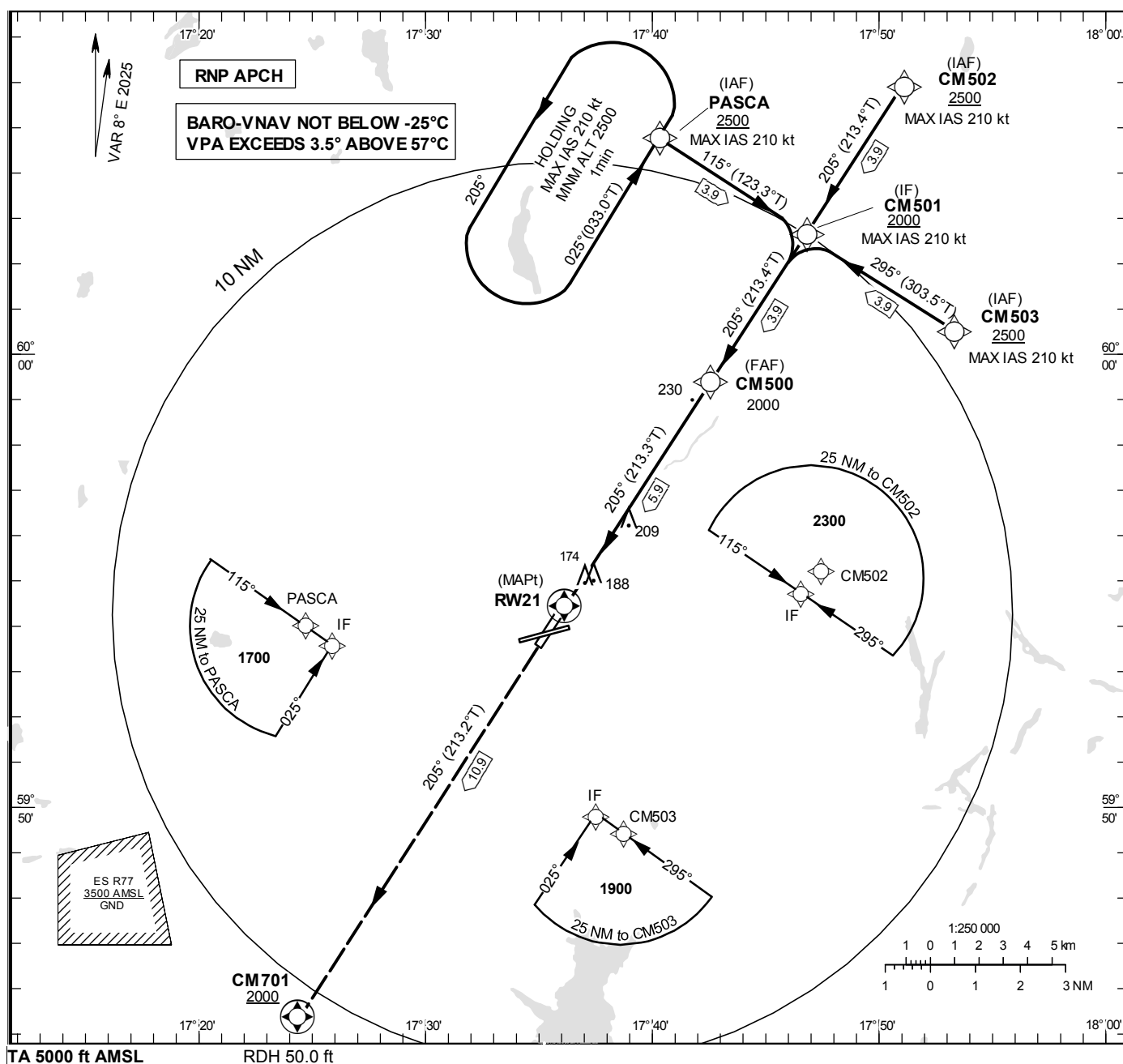


INSTRUMENT  
APPROACH  
CHART – ICAOTHR ELEV 68.0 ft, AD ELEV 69 ft  
OCH are related to THR.  
BRG are MAG (True).  
ALT, HGT and ELEV in ft.UPPSALA TOWER 119.205  
UPPSALA APPROACH 130.405

CHANGE: Frequency

## UPPSALA

## RNP RWY 21 via PASCA

| Path Term | Waypoint Identifier | Fly-over | Course °M(°T) | Dist (NM) | Turn Dir | Rest Alts (ft AMSL) | Speed Limits (kt) | VPA/ RDH (°/ft) | Rec Navaid | Navigation Specification |
|-----------|---------------------|----------|---------------|-----------|----------|---------------------|-------------------|-----------------|------------|--------------------------|
| IF        | PASCA               | -        | -             | -         | -        | +2500               | -210              | -               | -          | RNP APCH                 |
| TF        | CM501               | -        | 115° (123.3°) | 3.9       | -        | +2000               | -                 | -               | -          | RNP APCH                 |

## RNP RWY 21 via CM503

| Path Term | Waypoint Identifier | Fly-over | Course °M(°T) | Dist (NM) | Turn Dir | Rest Alts (ft AMSL) | Speed Limits (kt) | VPA/ RDH (°/ft) | Rec Navaid | Navigation Specification |
|-----------|---------------------|----------|---------------|-----------|----------|---------------------|-------------------|-----------------|------------|--------------------------|
| IF        | CM503               | -        | -             | -         | -        | +2500               | -210              | -               | -          | RNP APCH                 |
| TF        | CM501               | -        | 295° (303.5°) | 3.9       | -        | +2000               | -                 | -               | -          | RNP APCH                 |

## RNP RWY 21 via CM502

| Path Term | Waypoint Identifier | Fly-over | Course °M(°T) | Dist (NM) | Turn Dir | Rest Alts (ft AMSL) | Speed Limits (kt) | VPA/ RDH (°/ft) | Rec Navaid | Navigation Specification |
|-----------|---------------------|----------|---------------|-----------|----------|---------------------|-------------------|-----------------|------------|--------------------------|
| IF        | CM502               | -        | -             | -         | -        | +2500               | -210              | -               | -          | RNP APCH                 |
| TF        | CM501               | -        | 205° (213.4°) | 3.9       | -        | +2000               | -                 | -               | -          | RNP APCH                 |

| Path Term | Waypoint Identifier | Fly-over | Course °M(°T) | Dist (NM) | Turn Dir | Rest Alts (ft AMSL) | Speed Limits (kt) | VPA/ RDH (°/ft) | Rec Navaid | Navigation Specification |
|-----------|---------------------|----------|---------------|-----------|----------|---------------------|-------------------|-----------------|------------|--------------------------|
| IF        | CM501               | -        | -             | -         | -        | +2000               | -210              | -               | -          | RNP APCH                 |
| TF        | CM500               | -        | 205° (213.4°) | 3.9       | -        | @2000               | -                 | -               | -          | RNP APCH                 |
| TF        | RW21                | Y        | 205° (213.3°) | 5.9       | -        | @118                | -                 | -3.0/50         | -          | RNP APCH                 |
| TF        | CM701               | Y        | 205° (213.2°) | 10.9      | -        | +2000               | -                 | -               | -          | RNP APCH                 |
| VM        | -                   | -        | 205°          | -         | -        | -                   | -                 | -               | -          | RNP APCH                 |

## RNP RWY 21 – Holding at PASCA

| Path Term | Waypoint Identifier | Fly-over | Course °M(°T) | Dist (NM) | Turn Dir | Rest Alts (ft AMSL) | Speed Limits (kt) | VPA/ RDH (°/ft) | Rec Navaid | Navigation Specification |
|-----------|---------------------|----------|---------------|-----------|----------|---------------------|-------------------|-----------------|------------|--------------------------|
| HM        | PASCA               | Y        | 025°(033.0°)  | -         | L        | +2500               | -210              | -               | -          | RNAV1                    |

## FAS Data Block

## RNP RWY 21

## Input data

|                                     |               |
|-------------------------------------|---------------|
| Operation Type                      | 0             |
| SBAS Provider                       | 1 (EGNOS)     |
| Airport Identifier                  | ESCM          |
| Runway                              | 21            |
| Runway Letter                       | 0 (None)      |
| Approach Performance Designator     | 0             |
| Route Indicator                     |               |
| Reference Path Data Selector        | 0             |
| Reference Path Identifier           | E21A          |
| LTP/FTP Latitude                    | 595426.8200N  |
| LTP/FTP Longitude                   | 0173606.8600E |
| LTP/FTP Ellipsoidal Height (metres) | 44.6          |
| FPAP Latitude                       | 595335.2900N  |
| Delta FPAP Latitude (seconds)       | -51.5300      |
| FPAP Longitude                      | 0173459.7400E |
| Delta FPAP Longitude (seconds)      | -67.1200      |
| Threshold Crossing Height           | 50.0          |
| TCH Units Selector                  | 0 (feet)      |
| Glidepath Angle (degrees)           | 3.00          |
| Course Width (metres)               | 105.00        |
| Length Offset (metres)              | 0             |
| HAL (metres)                        | 40.0          |
| VAL (metres)                        | 50.0          |

## Output data

|                      |                                                                                                                                  |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Data Block           | 10 0D 03 13 05 15 00 00 01 31<br>32 05 08 A1 B5 19 98 CD 8D 07<br>BE 15 6C 6D FE A0 F3 FD F4 01<br>2C 01 64 00 C8 FA 33 2A A2 0A |
| Calculated CRC Value | 332AA20A                                                                                                                         |

## Required Additional Data

|                                     |      |
|-------------------------------------|------|
| ICAO Code                           | ES   |
| LTP/FTP Orthometric Height (metres) | 20.7 |