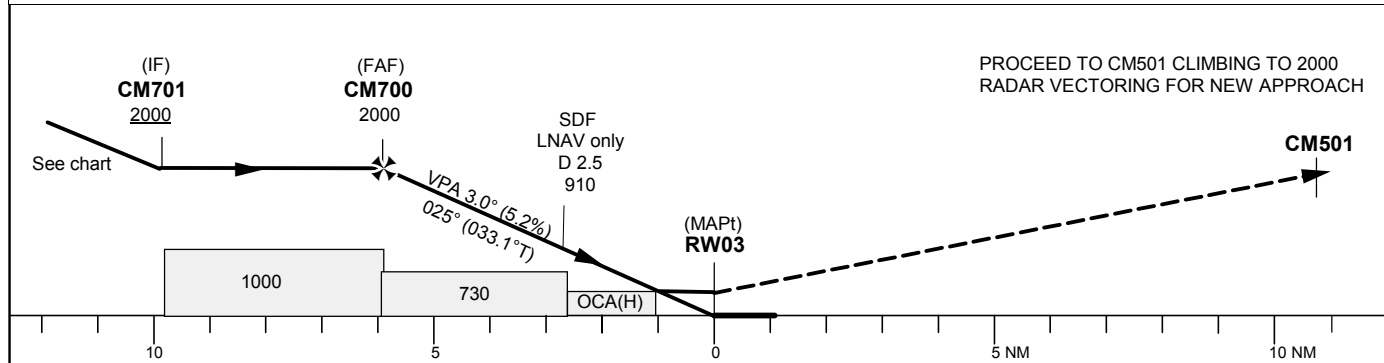
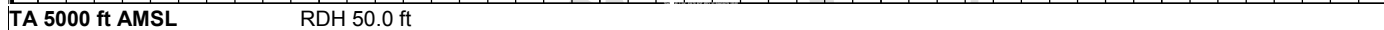


**THR ELEV 60 ft, AD ELEV 69 ft**  
 OCH are related to THR.  
 BRG are MAG (True).  
 ALT, HGT and ELEV in ft.

|                  |         |
|------------------|---------|
| UPPSALA TOWER    | 119.205 |
| UPPSALA APPROACH | 130.405 |



| OCA (H)     |           |           |           |           | Final approach    | Distance FAF-MAPt 5.9 NM |     |      |     |      |     |     |  |
|-------------|-----------|-----------|-----------|-----------|-------------------|--------------------------|-----|------|-----|------|-----|-----|--|
| Cat of ACFT | A         | B         | C         | D         | Dist to RW03 (NM) | 5                        |     | 4    |     | 3    |     | 2   |  |
| LPV         | 314 (254) | 326 (266) | 334 (274) | 345 (285) | ALT               | 1700                     |     | 1380 |     | 1070 |     | 750 |  |
| LNAV/VNAV   | 369 (309) | 381 (321) | 390 (330) | 400 (340) | GS                | kt                       | 80  | 100  | 120 | 140  | 160 | 180 |  |
| LNAV        | 490 (430) |           |           |           | Rate of descent   | ft/min                   | 425 | 530  | 635 | 745  | 850 | 955 |  |

LFV

## UPPSALA

## RNP RWY 03 via CM703

| 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        | CM703               | -        | -             | -         | -        | +2500               | -210              | -               | -          | RNP APCH                 |
| TF        | CM701               | -        | 295° (303.1°) | 3.9       | -        | +2000               | -                 | -               | -          | RNP APCH                 |

## RNP RWY 03 via RUWER

| 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        | RUWER               | -        | -             | -         | -        | +2500               | -210              | -               | -          | RNP APCH                 |
| TF        | CM701               | -        | 115° (122.9°) | 3.9       | -        | +2000               | -                 | -               | -          | RNP APCH                 |

## RNP RWY 03 via CM702

| 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        | CM702               | -        | -             | -         | -        | +2500               | -210              | -               | -          | RNP APCH                 |
| TF        | CM701               | -        | 025° (033.0°) | 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        | CM701               | -        | -             | -         | -        | +2000               | -210              | -               | -          | RNP APCH                 |
| TF        | CM700               | -        | 025° (033.0°) | 3.9       | -        | +2000               | -                 | -               | -          | RNP APCH                 |
| TF        | RW03                | Y        | 025° (033.1°) | 5.9       | -        | @110                | -                 | -3.0/50         | -          | RNP APCH                 |
| TF        | CM501               | Y        | 025° (033.2°) | 10.8      | -        | +2000               | -                 | -               | -          | RNP APCH                 |
| VM        | -                   | -        | 025°          | -         | -        | -                   | -                 | -               | -          | RNP APCH                 |

## RNP RWY 03 – Holding at RUWER

| 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        | RUWER               | Y        | 205° (213.0°) | -         | R        | +2500               | -210              | -               | -          | RNAV 1                   |

## FAS Data Block

## RNP RWY 03

## Input data

|                                     |               |
|-------------------------------------|---------------|
| Operation Type                      | 0             |
| SBAS Provider                       | 1 (EGNOS)     |
| Airport Identifier                  | ESCM          |
| Runway                              | 03            |
| Runway Letter                       | 0 (None)      |
| Approach PerformanceDesignator      | 0             |
| Route Indicator                     |               |
| ReferencePath Data Selector         | 0             |
| ReferencePathIdentifier             | E03A          |
| LTP/FTP Latitude                    | 595335.2925N  |
| LTP/FTP Longitude                   | 0173459.7450E |
| LTP/FTP Ellipsoidal Height (metres) | 42.2          |
| FPAP Latitude                       | 595426.8200N  |
| Delta FPAP Latitude (seconds)       | 51.5275       |
| FPAP Longitude                      | 0173606.8555E |
| Delta FPAP Longitude (seconds)      | 67.1105       |
| ThresholdCrossingHeight             | 50.0          |
| TCH UnitsSelector                   | 0 (feet)      |
| GlidepathAngle (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 03 00 00 01 33<br>30 05 79 0E B4 19 42 C1 8B 07<br>A6 15 8F 92 01 4D 0C 02 F4 01<br>2C 01 64 00 C8 FA 18 59 8D 84 |
| Calculated CRC Value | 18598D84                                                                                                                         |

## RequiredAdditional Data

|                                     |      |
|-------------------------------------|------|
| ICAO Code                           | ES   |
| LTP/FTP Orthometric Height (metres) | 18.2 |