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Changed chart(s) since Disc 16-2010

ADD = Added chart, REV = Revised chart, DEL = Deleted chart.

| ACT | PROCEDURE IDENT | INDEX | REV DATE | EFF DATE |
|-----|-----------------|-------|----------|----------|
|-----|-----------------|-------|----------|----------|

No revision activity since Disc 16-2010

## **TERMINAL CHART NOTAMs**

**No Chart NOTAMs for Airport UDSG**

**General Info**

Gyumri, ARM

N 40° 45.0' E 43° 51.6' Mag Var: 4.8°E

Elevation: 5000'

Public, IFR, Control Tower, Customs, Landing Fee

Fuel: Jet A, Jet A-1

Repairs: Minor Airframe, Minor Engine

Time Zone Info: GMT+4:00 uses DST

**Runway Info**

Runway 02-20 10564' x 148' concrete

Runway 02 (19.0°M) TDZE 4941'

Lights: Edge, ALS, TDZ

Runway 20 (199.0°M) TDZE 5000'

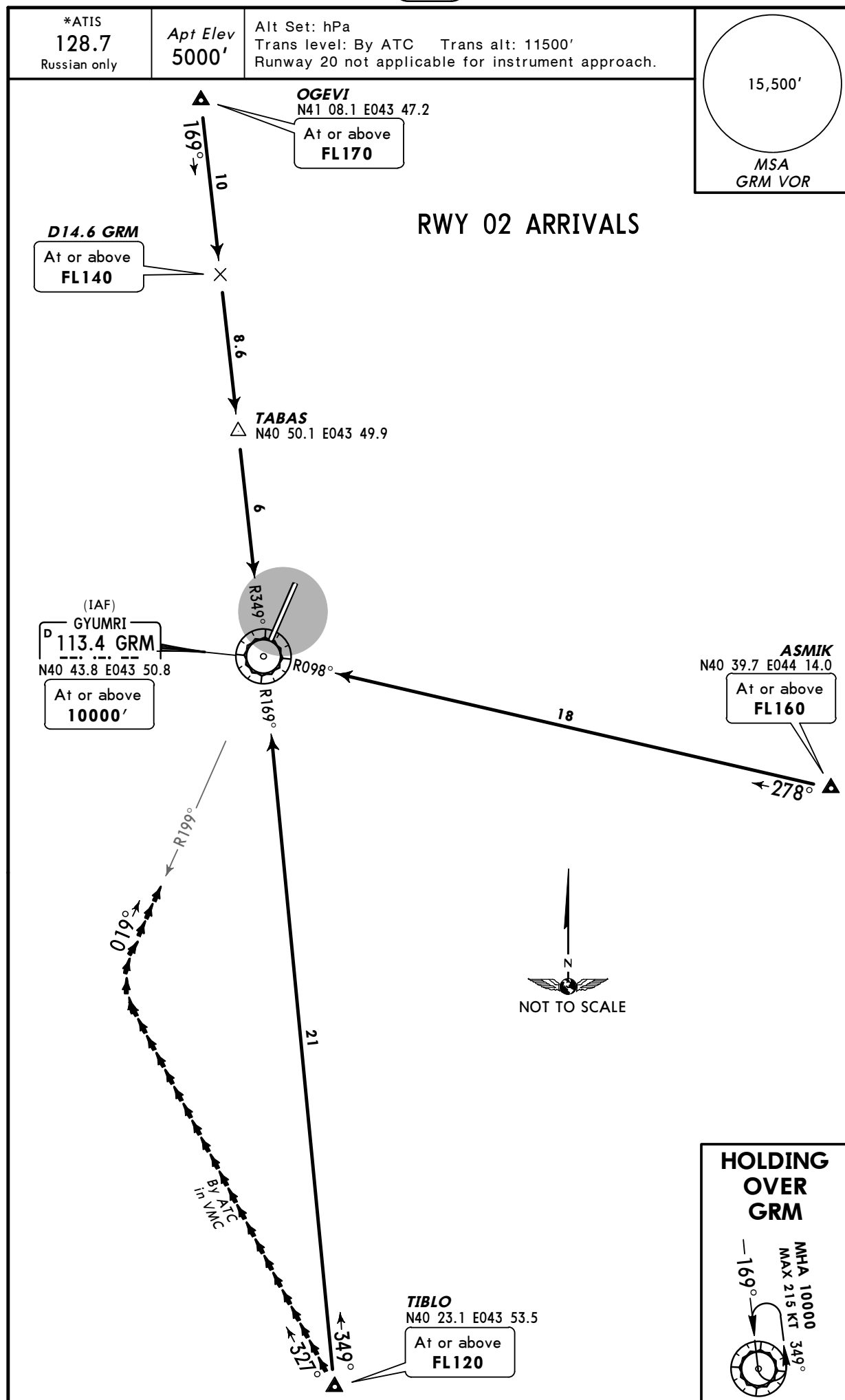
Lights: Edge

**Communications Info**ATIS **128.7** Non-EnglishGyumri Tower **127.7**Gyumri Tower **120.6****Notebook Info**

UDSG/LWN  
SHIRAK

**JEPPESSEN**  
9 JAN 09 **10-2** **Eff 15 Jan**

**GYUMRI, ARMENIA**  
**ARRIVAL**



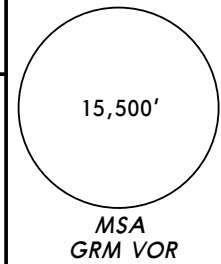
**UDSG/LWN**  
**SHIRAK**

**JEPPesen**  
9 JAN 09 **10-3** Eff 15 Jan

**GYUMRI, ARMENIA**  
**DEPARTURE**

Apt Elev  
**5000'**

Trans level: By ATC Trans alt: 11500'  
Contact GYUMRI Approach immediately after take-off.



**RWYS 02, 20**  
**DEPARTURES**

**D14.6 GRM**  
At or above  
**FL140**

**OGEVI**  
N41 08.1 E043 47.2

**TABAS**  
N40 50.1 E043 49.9

**D4.3 GRM**  
N40 47.8 E043 53.3  
(GRM R-019)

**MAX**  
**215 KT**  
Bank **20°**



**ASMIK**  
N40 39.7 E044 14.0  
At or above  
**FL160**

**GYUMRI**  
**D 113.4 GRM**  
N40 43.8 E043 50.8

At or above  
**10000'**  
If below **11000'**  
climb in holding  
then join ATS routes

**D9.2 GRM**  
N40 35.4  
E043 45.9  
(GRM R-199)

**HOLDING**  
**OVER**  
**GRM**



**TIBLO**  
N40 23.1 E043 53.5  
At or above  
**FL120**

**Rwy 02:** This departure requires a minimum climb  
gradient of  
425' per NM (7%) up to **8000'**.

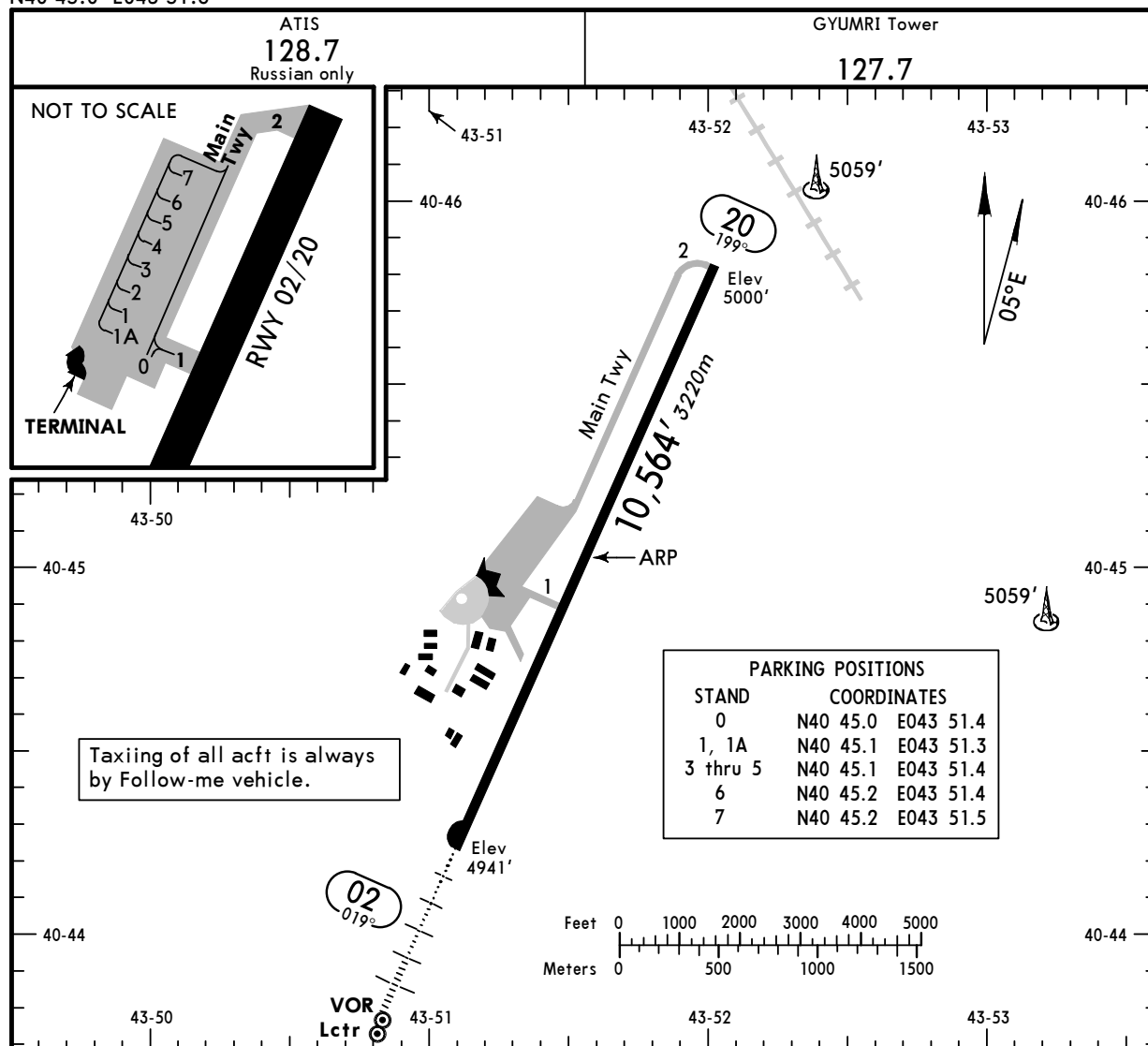
| Gnd speed-KT | 75  | 100 | 150  | 200  | 250  | 300  |
|--------------|-----|-----|------|------|------|------|
| 425' per NM  | 532 | 709 | 1063 | 1418 | 1772 | 2127 |

| RWY       | ROUTING                                              |
|-----------|------------------------------------------------------|
| <b>02</b> | Climb straight ahead to D4.3 GRM, turn RIGHT to GRM. |
| <b>20</b> | Climb straight ahead to D9.2 GRM, turn LEFT to GRM.  |

**UDSG/LWN**  
Apt Elev **5000'**  
N40 45.0 E043 51.6

**JEPPesen**  
2 JUL 10 **(10-9)**

**GYUMRI, ARMENIA**  
**SHIRAK**



ADDITIONAL RUNWAY INFORMATION

| ADDITIONAL RUNWAY INFORMATION |            |       |     |        |     | USABLE LENGTHS |             | TAKE-OFF | WIDTH |
|-------------------------------|------------|-------|-----|--------|-----|----------------|-------------|----------|-------|
| RWY                           |            |       |     |        |     | LANDING BEYOND |             |          |       |
|                               |            |       |     |        |     | Threshold      | Glide Slope |          |       |
| 02                            | HIRL (60m) | HIALS | TDZ | PAPI-L | RVR |                | 9531' 2905m |          | 148'  |
| 20                            | HIRL (60m) |       |     |        | RVR | ❶              |             |          | 45m   |
|                               |            |       |     |        |     |                |             |          |       |
|                               |            |       |     |        |     |                |             |          |       |
|                               |            |       |     |        |     |                |             |          |       |
|                               |            |       |     |        |     |                |             |          |       |

❶ Not officially published.

**JAR-OPS**

**TAKE-OFF ❶**

|   | All Rwys                 |                          |                   |
|---|--------------------------|--------------------------|-------------------|
|   | LVP must be in force     |                          |                   |
|   | RCLM (DAY only)<br>or RL | RCLM (DAY only)<br>or RL | NIL<br>(DAY only) |
| A |                          |                          |                   |
| B | 250m                     | 400m                     | 500m              |
| C |                          |                          |                   |
| D | 300m                     |                          |                   |

❶ Operators applying U.S. Ops Specs: CL required below 300m.

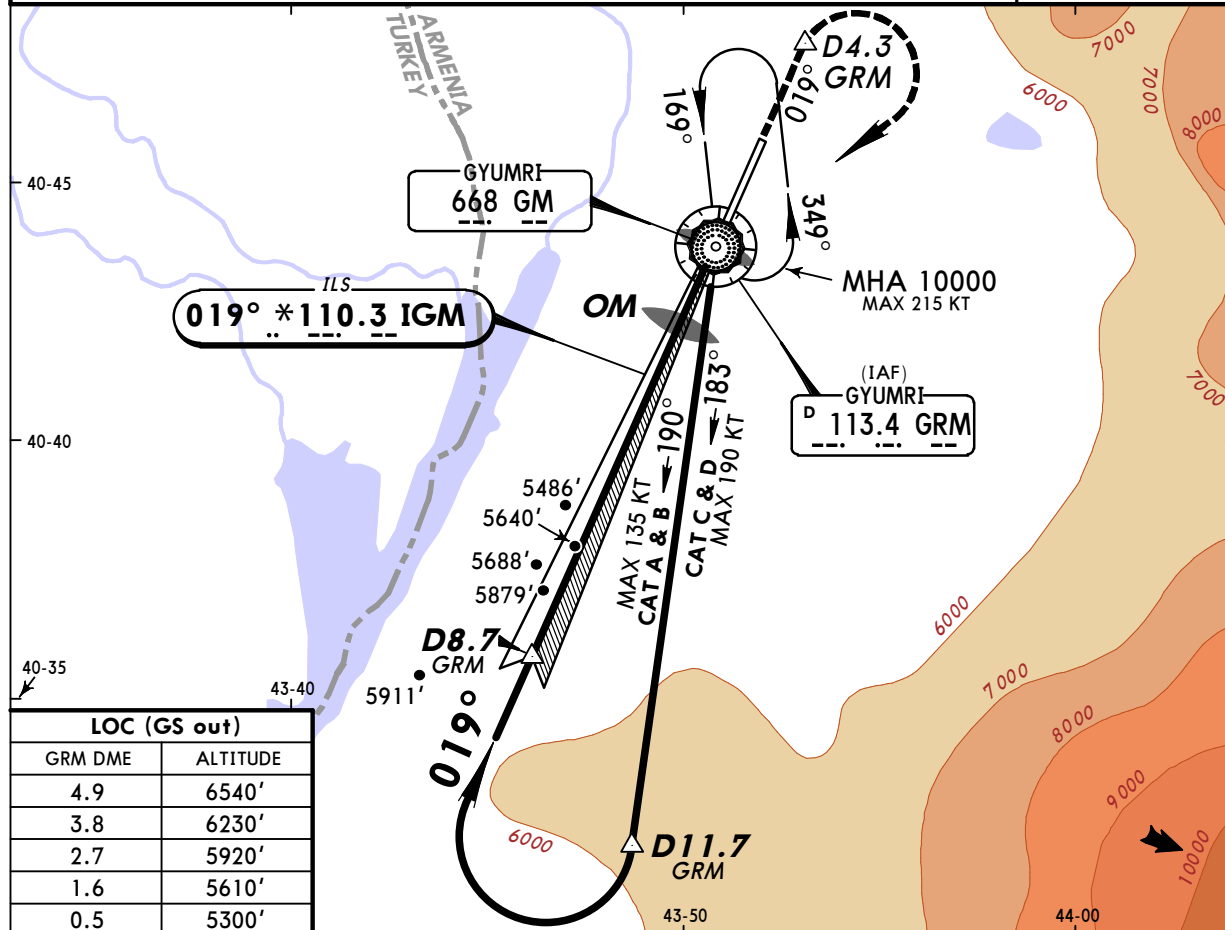
**UDSG/LWN**  
**SHIRAK**

**JEPPesen**  
2 JUL 10 **(11-1)**

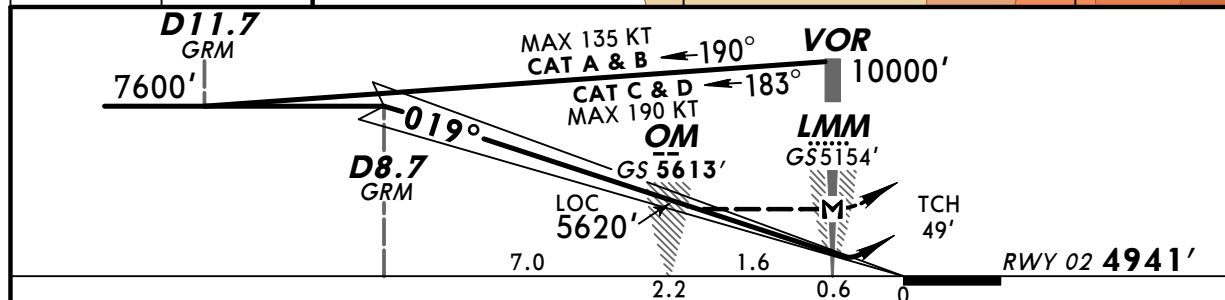
**GYUMRI, ARMENIA**  
**ILS Rwy 02**  
MISSED APCH CLIMB GRAD MIM  
ILS: 5.9%, LOC(GS out): 5.3%

BRIEFING STRIP

|                                                                                                                                           |                                  |                                 |                                     |                                          |                                                                                                                                                                                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|---------------------------------|-------------------------------------|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ATIS<br><b>128.7</b><br>Russian only                                                                                                      |                                  |                                 |                                     | GYUMRI Tower<br><b>127.7</b>             |                                                                                                                                                                                                         |
| LOC<br>IGM<br><b>*110.3</b>                                                                                                               | Final<br>Apch Crs<br><b>019°</b> | GS<br>OM<br><b>5613'</b> (672') | ILS<br>DA(H)<br><b>5141'</b> (200') | Apt Elev <b>5000'</b><br><b>RWY4941'</b> | <div style="border: 1px solid black; border-radius: 50%; width: 100px; height: 100px; display: flex; align-items: center; justify-content: center;">                     15,500'                 </div> |
| <b>MISSED APCH: Climb STRAIGHT AHEAD to D4.3 GRM, then turn RIGHT to VOR climbing to 10000' to join holding, then according to chart.</b> |                                  |                                 |                                     |                                          |                                                                                                                                                                                                         |
| Alt Set: hPa                                                                                                                              | Rwy Elev: 168 hPa                | Trans level: By ATC             | Trans alt: 11500'                   | MSA GRM VOR                              |                                                                                                                                                                                                         |



| LOC (GS out) |          |
|--------------|----------|
| GRM DME      | ALTITUDE |
| 4.9          | 6540'    |
| 3.8          | 6230'    |
| 2.7          | 5920'    |
| 1.6          | 5610'    |
| 0.5          | 5300'    |



|                                      |     |     |     |     |     |     |                                                                                                                                                                                                     |
|--------------------------------------|-----|-----|-----|-----|-----|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gnd speed-Kts                        | 70  | 90  | 100 | 120 | 140 | 160 | HIALS<br>PAPI<br><div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center;">                     D4.3 GRM                 </div> |
| ILS GS or<br>LOC Descent Angle 2.67° | 336 | 432 | 480 | 576 | 671 | 767 |                                                                                                                                                                                                     |
| MAP at LMM                           |     |     |     |     |     |     |                                                                                                                                                                                                     |

| JAR-OPS                         |          | STRAIGHT-IN LANDING RWY 02      |           |          |           | CIRCLE-TO-LAND                                                                   |  |
|---------------------------------|----------|---------------------------------|-----------|----------|-----------|----------------------------------------------------------------------------------|--|
| ILS                             |          | LOC (GS out)                    |           |          |           |                                                                                  |  |
| Missed apch climb grad mim 5.9% |          | Missed apch climb grad mim 5.3% |           |          |           |                                                                                  |  |
| DA(H) <b>5141'</b> (200')       |          | MDA(H) <b>5590'</b> (649')      |           |          |           |                                                                                  |  |
| FULL                            |          | ALS out                         |           | LMM out  |           | ALS out                                                                          |  |
| A                               | RVR 550m | RVR 1000m                       | RVR 1000m | NOT AUTH | RVR 1500m | For<br>CIRCLE-TO-LAND WITH<br>PRESCRIBED FLIGHT<br>TRACKS to rwy 20<br>see 19-10 |  |
| B                               |          |                                 | RVR 1200m |          |           |                                                                                  |  |
| C                               |          |                                 | RVR 1600m |          |           |                                                                                  |  |
| D                               |          |                                 |           |          |           |                                                                                  |  |

PANS OPS

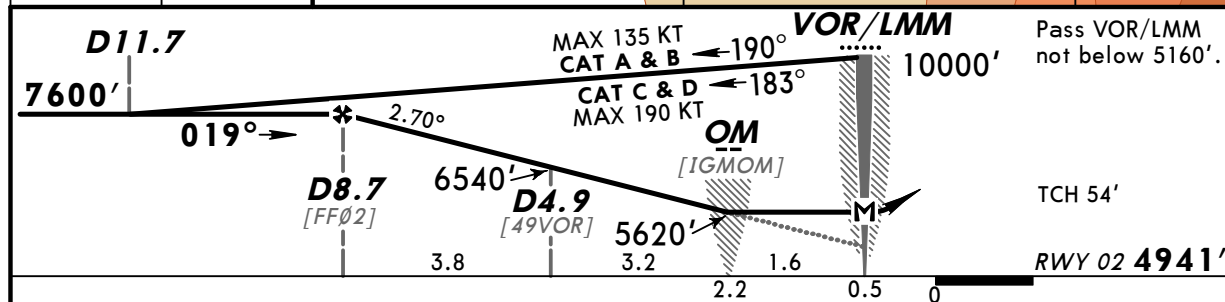
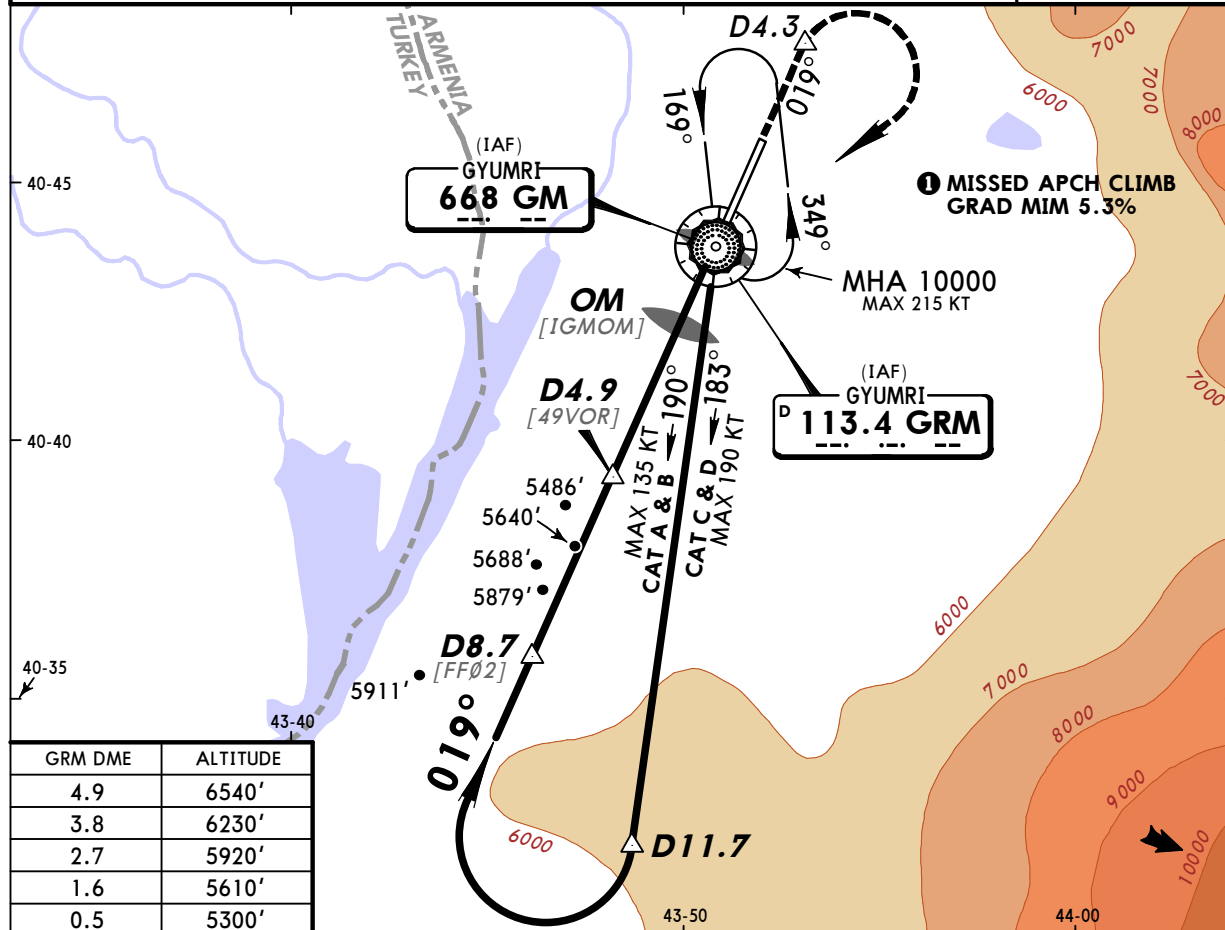
**UDSG/LWN**  
**SHIRAK**

**JEPPesen**  
2 JUL 10 (13-1)

**GYUMRI, ARMENIA**  
**VOR DME or NDB DME Rwy 02**

BRIEFING STRIP

|                                                                                                                                       |                                        |                                                |                                                           |                                      |                                                         |                                                                                                                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------------------------|-----------------------------------------------------------|--------------------------------------|---------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ATIS</b><br><b>128.7</b><br>Russian only                                                                                           |                                        |                                                |                                                           | <b>GYUMRI Tower</b><br><b>127.7</b>  |                                                         |                                                                                                                                                                                       |
| <b>VOR</b><br><b>GRM</b><br><b>113.4</b>                                                                                              | <b>Lctr</b><br><b>GM</b><br><b>668</b> | <b>Final</b><br><b>Apch Crs</b><br><b>019°</b> | <b>Minimum Alt</b><br><b>D8.7</b><br><b>7600'</b> (2659') | <b>MDA(H)</b><br><b>5590'</b> (649') | <b>Apt Elev</b> <b>5000'</b><br><b>RWY</b> <b>4941'</b> | <div style="border: 1px solid black; border-radius: 50%; width: 100px; height: 100px; display: flex; align-items: center; justify-content: center;">           15,500'         </div> |
| <b>MISSED APCH:</b> Climb STRAIGHT AHEAD to D4.3, then turn RIGHT to VOR climbing to 10000' to join holding, then according to chart. |                                        |                                                |                                                           |                                      |                                                         |                                                                                                                                                                                       |
| Alt Set: hPa                                                                                                                          | Rwy Elev: 168 hPa                      | Trans level: By ATC                            | Trans alt: 11500'                                         | MSA GRM VOR                          |                                                         |                                                                                                                                                                                       |



|                            |     |     |     |     |     |     |
|----------------------------|-----|-----|-----|-----|-----|-----|
| <b>Gnd speed-Kts</b>       | 70  | 90  | 100 | 120 | 140 | 160 |
| <b>Descent Angle 2.70°</b> | 334 | 430 | 478 | 573 | 669 | 764 |
| <b>MAP at VOR/LMM</b>      |     |     |     |     |     |     |

| JAR-OPS                         |           | STRAIGHT-IN LANDING RWY 02 |                    |           |  | CIRCLE-TO-LAND                                                                   |  |
|---------------------------------|-----------|----------------------------|--------------------|-----------|--|----------------------------------------------------------------------------------|--|
| Missed apch climb grad min 5.3% |           |                            |                    |           |  | For<br>CIRCLE-TO-LAND WITH<br>PRESCRIBED FLIGHT<br>TRACKS to rwy 20<br>see 19-10 |  |
| VOR DME                         |           |                            | NDB DME            |           |  |                                                                                  |  |
| MDA(H) 5590'(649')              |           |                            | MDA(H) 5590'(649') |           |  |                                                                                  |  |
| ALS out                         |           |                            | ALS out            |           |  |                                                                                  |  |
| A                               | RVR 1000m | RVR 1500m                  | RVR 1000m          | RVR 1500m |  |                                                                                  |  |
| B                               | RVR 1200m |                            | RVR 1200m          |           |  |                                                                                  |  |
| C                               |           | RVR 2000m                  |                    | RVR 2000m |  |                                                                                  |  |
| D                               | RVR 1600m |                            | RVR 1600m          |           |  |                                                                                  |  |

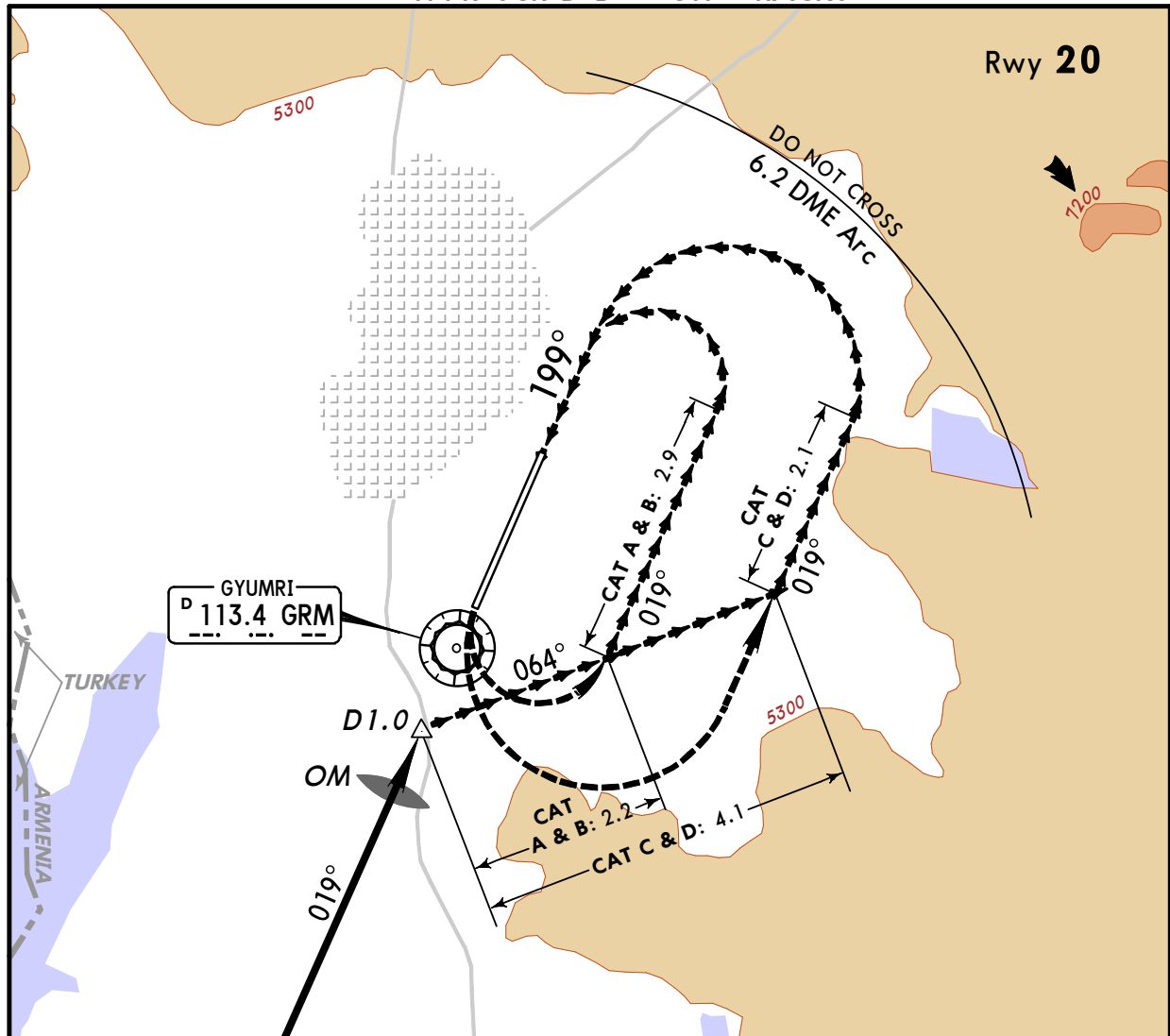
PANS OPS



**UDSG/LWN**  
Apt Elev **5000'**

**JEPPESEN**  
2 JUL 10 **19-10**  
**CIRCLE-TO-LAND**  
**WITH PRESCRIBED FLIGHT TRACKS**

**GYUMRI, ARMENIA**  
**SHIRAK**



CAUTION: During final turn do not cross 6.2 DME Arc.

**MISSED APCH:**

Climb STRAIGHT AHEAD to MDA(H) to VOR, then turn LEFT onto 019°, then according to chart.

**JAR-OPS**

|   |         | DAY                        | NIGHT          |
|---|---------|----------------------------|----------------|
|   | Max Kts | MDA(H)                     |                |
| A | 100     | <b>5660'</b> (660') 4000m  | NOT AUTHORIZED |
| B | 135     |                            |                |
| C | 180     | <b>6380'</b> (1380') 6000m |                |
| D | 185     |                            |                |