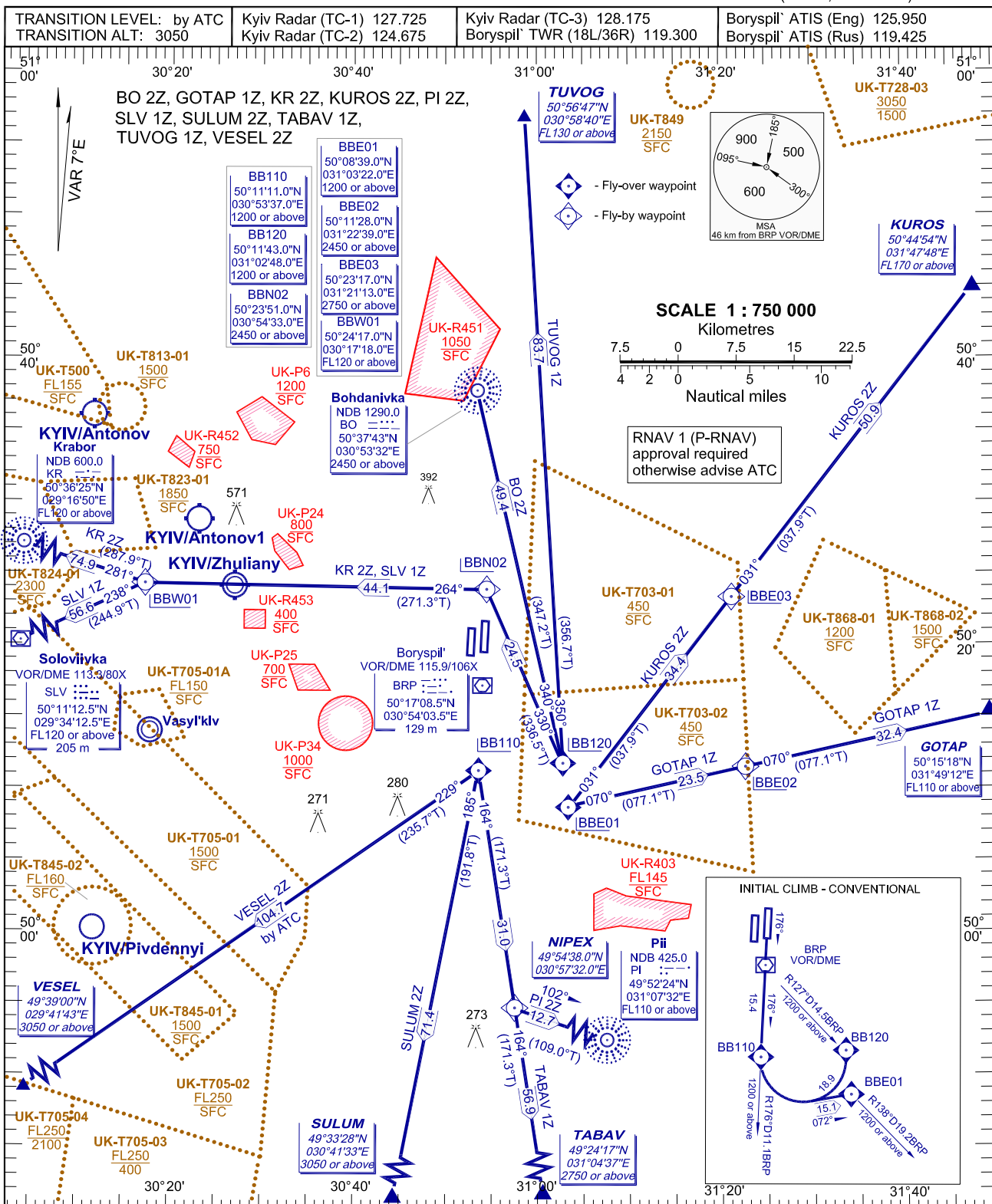


# RNAV DEPARTURE PROCEDURE KYIV/Boryspil' RNAV(GNSS, DME/DME)RWY 18L



CHANGE: VAR: RNAV procedures.

 BEARINGS AND TRACKS ARE MAGNETIC,  
 ALTITUDES, HEIGHTS AND ELEVATIONS ARE IN METRES,  
 DISTANCES ARE IN KILOMETRES

## RNAV DEPARTURE PROCEDURE

## RNAV 1 (GNSS, DME/DME) RWY 18L

| Designator                                           | Initial climb description (conventional)                                                                         |                                                                                          |         |                |                                        |          |             |
|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|---------|----------------|----------------------------------------|----------|-------------|
|                                                      | Route                                                                                                            | Altitude                                                                                 |         |                | Remark                                 |          |             |
| <b>BO 2Z</b><br><b>Bohdanivka</b><br><b>TWO ZULU</b> | On track 176° to R176° D11,1 BRP VOR/DME, turn LEFT to R127° D14,5 BRP VOR/DME, then at BB120 as described below | Cross R176° D11,1 BRP VOR/DME at 1200 or above, R127° D14,5 BRP VOR/DME at 1200 or above |         |                | Minimum climb gradient 7% up to 1200 m |          |             |
|                                                      | Path description                                                                                                 | Fix identifier (Waypoint name)                                                           | Flyover | Course °M (°T) | Turn direction                         | Altitude | Speed limit |
|                                                      | IF                                                                                                               | BB120                                                                                    | Y       | -              | -                                      | +1200    | -           |
|                                                      | TF                                                                                                               | BO                                                                                       | N       | 340 (347,2)    | -                                      | +2450    | -           |

| Designator                                         | Initial climb description (conventional)                                                                                       |                                                                                          |         |                |                                        |          |             |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|---------|----------------|----------------------------------------|----------|-------------|
|                                                    | Route                                                                                                                          | Altitude                                                                                 |         |                | Remark                                 |          |             |
| <b>GOTAP 1Z</b><br><b>GOTAP ONE</b><br><b>ZULU</b> | On track 176° to R176° D11,1 BRP VOR/DME, turn LEFT on track 072° to R138° D19,2 BRP VOR/DME, then at BBE01 as described below | Cross R176° D11,1 BRP VOR/DME at 1200 or above, R138° D19,2 BRP VOR/DME at 1200 or above |         |                | Minimum climb gradient 7% up to 1200 m |          |             |
|                                                    | Path description                                                                                                               | Fix identifier (Waypoint name)                                                           | Flyover | Course °M (°T) | Turn direction                         | Altitude | Speed limit |
|                                                    | IF                                                                                                                             | BBE01                                                                                    | Y       | -              | -                                      | +1200    | -           |
|                                                    | TF                                                                                                                             | BBE02                                                                                    | N       | 070 (077,1)    | -                                      | +2450    | -           |
|                                                    | TF                                                                                                                             | GOTAP                                                                                    | N       | 070 (077,1)    | -                                      | +FL110   | -           |

| Designator                                       | Initial climb description (conventional)                                                                         |                                                                                          |         |                |                                        |          |             |
|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|---------|----------------|----------------------------------------|----------|-------------|
|                                                  | Route                                                                                                            | Altitude                                                                                 |         |                | Remark                                 |          |             |
| <b>KR 2Z</b><br><b>Krabor</b><br><b>TWO ZULU</b> | On track 176° to R176° D11,1 BRP VOR/DME, turn LEFT to R127° D14,5 BRP VOR/DME, then at BB120 as described below | Cross R176° D11,1 BRP VOR/DME at 1200 or above, R127° D14,5 BRP VOR/DME at 1200 or above |         |                | Minimum climb gradient 7% up to 1200 m |          |             |
|                                                  | Path description                                                                                                 | Fix identifier (Waypoint name)                                                           | Flyover | Course °M (°T) | Turn direction                         | Altitude | Speed limit |
|                                                  | IF                                                                                                               | BB120                                                                                    | Y       | -              | -                                      | +1200    | -           |
|                                                  | TF                                                                                                               | BBN02                                                                                    | N       | 330 (336,5)    | -                                      | +2450    | -           |
|                                                  | TF                                                                                                               | BBW01                                                                                    | N       | 264 (271,3)    | L                                      | +FL120   | -           |
|                                                  | TF                                                                                                               | KR                                                                                       | N       | 281(287,9)     | R                                      | +FL120   | -           |

| Designator                                         | Initial climb description (conventional)                                                                                       |                                                                                          |         |                |                                        |          |             |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|---------|----------------|----------------------------------------|----------|-------------|
|                                                    | Route                                                                                                                          | Altitude                                                                                 |         |                | Remark                                 |          |             |
| <b>KUROS 2Z</b><br><b>KUROS</b><br><b>TWO ZULU</b> | On track 176° to R176° D11,1 BRP VOR/DME, turn LEFT on track 072° to R138° D19,2 BRP VOR/DME, then at BBE01 as described below | Cross R176° D11,1 BRP VOR/DME at 1200 or above, R138° D19,2 BRP VOR/DME at 1200 or above |         |                | Minimum climb gradient 7% up to 1200 m |          |             |
|                                                    | Path description                                                                                                               | Fix identifier (Waypoint name)                                                           | Flyover | Course °M (°T) | Turn direction                         | Altitude | Speed limit |
|                                                    | IF                                                                                                                             | BBE01                                                                                    | Y       | -              | -                                      | +1200    | -           |
|                                                    | TF                                                                                                                             | BBE03                                                                                    | N       | 031 (037,9)    | -                                      | +2750    | -           |
|                                                    | TF                                                                                                                             | KUROS                                                                                    | N       | 031 (037,9)    | -                                      | +FL170   | -           |

| Designator                                    | Initial climb description (conventional)                                   |                                                |         |                |                                                                                        |          |             |
|-----------------------------------------------|----------------------------------------------------------------------------|------------------------------------------------|---------|----------------|----------------------------------------------------------------------------------------|----------|-------------|
|                                               | Route                                                                      | Altitude                                       |         |                | Remark                                                                                 |          |             |
| <b>PI 2Z</b><br><b>Pii</b><br><b>TWO ZULU</b> | On track 176° to R176° D11,1 BRP VOR/DME, then at BB110 as described below | Cross R176° D11,1 BRP VOR/DME at 1200 or above |         |                | Minimum climb gradient 7% up to 1200 m.<br>Not authorized for simultaneous departures. |          |             |
|                                               | Path description                                                           | Fix identifier (Waypoint name)                 | Flyover | Course °M (°T) | Turn direction                                                                         | Altitude | Speed limit |
|                                               | IF                                                                         | BB110                                          | Y       | -              | -                                                                                      | +1200    | -           |
|                                               | TF                                                                         | NIPEX                                          | N       | 164 (171,3)    | -                                                                                      | -        | -           |
|                                               | TF                                                                         | PI                                             | N       | 102 (109,0)    | L                                                                                      | +FL110   | -           |

| <i>Designator</i>                | <i>Initial climb description (conventional)</i>                                                                  |                                       |                |                                                                                          |                                        |                 |                    |
|----------------------------------|------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------------|------------------------------------------------------------------------------------------|----------------------------------------|-----------------|--------------------|
| SLV 1Z<br>Soloviivka<br>ONE ZULU | <i>Route</i>                                                                                                     |                                       |                | <i>Altitude</i>                                                                          | <i>Remark</i>                          |                 |                    |
|                                  | On track 176° to R176° D11,1 BRP VOR/DME, turn LEFT to R127° D14,5 BRP VOR/DME, then at BB120 as described below |                                       |                | Cross R176° D11,1 BRP VOR/DME at 1200 or above, R127° D14,5 BRP VOR/DME at 1200 or above | Minimum climb gradient 7% up to 1200 m |                 |                    |
|                                  | <i>Path description</i>                                                                                          | <i>Fix identifier (Waypoint name)</i> | <i>Flyover</i> | <i>Course °M (°T)</i>                                                                    | <i>Turn direction</i>                  | <i>Altitude</i> | <i>Speed limit</i> |
|                                  | IF                                                                                                               | BB120                                 | Y              | -                                                                                        | -                                      | +1200           | -                  |
|                                  | TF                                                                                                               | BBN02                                 | N              | 330 (336,5)                                                                              | -                                      | +2450           | -                  |
|                                  | TF                                                                                                               | BBW01                                 | N              | 264 (271,3)                                                                              | L                                      | +FL120          | -                  |
|                                  | TF                                                                                                               | SLV                                   | N              | 238 (244,9)                                                                              | L                                      | +FL120          | -                  |

| <i>Designator</i>             | <i>Initial climb description (conventional)</i>                            |                                       |                |                                                |                                                                                     |                 |                    |
|-------------------------------|----------------------------------------------------------------------------|---------------------------------------|----------------|------------------------------------------------|-------------------------------------------------------------------------------------|-----------------|--------------------|
| SULUM 2Z<br>SULUM<br>TWO ZULU | <i>Route</i>                                                               |                                       |                | <i>Altitude</i>                                | <i>Remark</i>                                                                       |                 |                    |
|                               | On track 176° to R176° D11,1 BRP VOR/DME, then at BB110 as described below |                                       |                | Cross R176° D11,1 BRP VOR/DME at 1200 or above | Minimum climb gradient 7% up to 1200 m. Not authorized for simultaneous departures. |                 |                    |
|                               | <i>Path description</i>                                                    | <i>Fix identifier (Waypoint name)</i> | <i>Flyover</i> | <i>Course °M (°T)</i>                          | <i>Turn direction</i>                                                               | <i>Altitude</i> | <i>Speed limit</i> |
|                               | IF                                                                         | BB110                                 | Y              | -                                              | -                                                                                   | +1200           | -                  |
|                               | TF                                                                         | SULUM                                 | N              | 185 (191,8)                                    | -                                                                                   | +3050           | -                  |

| <i>Designator</i>             | <i>Initial climb description (conventional)</i>                            |                                       |                |                                                |                                                                                     |                 |                    |
|-------------------------------|----------------------------------------------------------------------------|---------------------------------------|----------------|------------------------------------------------|-------------------------------------------------------------------------------------|-----------------|--------------------|
| TABAV 1Z<br>TABAV ONE<br>ZULU | <i>Route</i>                                                               |                                       |                | <i>Altitude</i>                                | <i>Remark</i>                                                                       |                 |                    |
|                               | On track 176° to R176° D11,1 BRP VOR/DME, then at BB110 as described below |                                       |                | Cross R176° D11,1 BRP VOR/DME at 1200 or above | Minimum climb gradient 7% up to 1200 m. Not authorized for simultaneous departures. |                 |                    |
|                               | <i>Path description</i>                                                    | <i>Fix identifier (Waypoint name)</i> | <i>Flyover</i> | <i>Course °M (°T)</i>                          | <i>Turn direction</i>                                                               | <i>Altitude</i> | <i>Speed limit</i> |
|                               | IF                                                                         | BB110                                 | Y              | -                                              | -                                                                                   | +1200           | -                  |
|                               | TF                                                                         | NIPEX                                 | N              | 164(171,3)                                     | -                                                                                   | -               | -                  |
|                               | TF                                                                         | TABAV                                 | N              | 164 (171,3)                                    | -                                                                                   | +2750           | -                  |

| <i>Designator</i>             | <i>Initial climb description (conventional)</i>                                                                  |                                       |                |                                                                                          |                                        |                 |                    |
|-------------------------------|------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------------|------------------------------------------------------------------------------------------|----------------------------------------|-----------------|--------------------|
| TUVOG 1Z<br>TUVOG ONE<br>ZULU | <i>Route</i>                                                                                                     |                                       |                | <i>Altitude</i>                                                                          | <i>Remark</i>                          |                 |                    |
|                               | On track 176° to R176° D11,1 BRP VOR/DME, turn LEFT to R127° D14,5 BRP VOR/DME, then at BB120 as described below |                                       |                | Cross R176° D11,1 BRP VOR/DME at 1200 or above, R127° D14,5 BRP VOR/DME at 1200 or above | Minimum climb gradient 7% up to 1200 m |                 |                    |
|                               | <i>Path description</i>                                                                                          | <i>Fix identifier (Waypoint name)</i> | <i>Flyover</i> | <i>Course °M (°T)</i>                                                                    | <i>Turn direction</i>                  | <i>Altitude</i> | <i>Speed limit</i> |
|                               | IF                                                                                                               | BB120                                 | Y              | -                                                                                        | -                                      | +1200           | -                  |
|                               | TF                                                                                                               | TUVOG                                 | N              | 350 (356,7)                                                                              | -                                      | +FL130          | -                  |

| <i>Designator</i>             | <i>Initial climb description (conventional)</i>                            |                                       |                |                                                |                                                                                            |                 |                    |
|-------------------------------|----------------------------------------------------------------------------|---------------------------------------|----------------|------------------------------------------------|--------------------------------------------------------------------------------------------|-----------------|--------------------|
| VESEL 2Z<br>VESEL TWO<br>ZULU | <i>Route</i>                                                               |                                       |                | <i>Altitude</i>                                | <i>Remark</i>                                                                              |                 |                    |
|                               | On track 176° to R176° D11,1 BRP VOR/DME, then at BB110 as described below |                                       |                | Cross R176° D11,1 BRP VOR/DME at 1200 or above | Minimum climb gradient 7% up to 1200 m. Not authorized for simultaneous departures. By ATC |                 |                    |
|                               | <i>Path description</i>                                                    | <i>Fix identifier (Waypoint name)</i> | <i>Flyover</i> | <i>Course °M (°T)</i>                          | <i>Turn direction</i>                                                                      | <i>Altitude</i> | <i>Speed limit</i> |
|                               | IF                                                                         | BB110                                 | Y              | -                                              | -                                                                                          | +1200           | -                  |
|                               | TF                                                                         | VESEL                                 | N              | 229 (235,7)                                    | -                                                                                          | +3050           | -                  |

## WAYPOINTS

| <i>Waypoint name</i> | <i>Coordinates</i> |            | <i>Waypoint name</i> | <i>Coordinates</i> |            |
|----------------------|--------------------|------------|----------------------|--------------------|------------|
| BB110                | 501111.0N          | 0305337.0E | SLV                  | 501112.5N          | 0293412.5E |
| BB120                | 501143.0N          | 0310248.0E | KR                   | 503625.0N          | 0291650.0E |
| BBE01                | 500839.0N          | 0310322.0E | GOTAP                | 501518.0N          | 0314912.0E |
| BBE02                | 501128.0N          | 0312239.0E | KUROS                | 504454.0N          | 0314748.0E |
| BBE03                | 502317.0N          | 0312113.0E | SULUM                | 493328.0N          | 0304133.0E |
| BBN02                | 502351.0N          | 0305433.0E | TABAV                | 492417.0N          | 0310437.0E |
| BBW01                | 502417.0N          | 0301718.0E | TUVOG                | 505647.0N          | 0305840.0E |
| NIPEX                | 495438.0N          | 0305732.0E | VESEL                | 493900.0N          | 0294143.0E |
| BO                   | 503743.0N          | 0305332.0E |                      |                    |            |
| PI                   | 495224.0N          | 0310732.0E |                      |                    |            |