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Airport Information For UUBW

Terminal Charts For UUBW

Revision Letter For Cycle 25-2012

Change Notices

Notebook

General Information

Location: Ramenskoye Rus
IATA Code:
Lat/Long: N55° 33.2' E038° 09.0'
Elevation: 404 ft

Airport Use: Public
Magnetic Variation: 10.4°E

Fuel Types: Jet A-1
Customs: Yes
Airport Type: IFR
Landing Fee: No
Control Tower: No
Jet Start Unit: No
LLWS Alert: No
Beacon: No

Sunrise: 0556 Z
Sunset: 1304 Z,

Runway Information

Runway: 12
Length x Width: 15092 ft x 230 ft
Surface Type: concrete
TDZ-Elev: 401 ft
Lighting: Edge

Runway: 30
Length x Width: 15092 ft x 230 ft
Surface Type: concrete
TDZ-Elev: 376 ft
Lighting: Edge, ALS
Stopway: 2132 ft

Communication Information

ATIS 127.75 Non-English
Gordy Ground Control 131.0 Non-English
Gordy Ground Control 124.0 Non-English
Gordy Radar 125.25 Non-English
Gordy Radar 124.0 Non-English
Gordy Transit Operations 123.9 Non-English

1. GENERAL

FOR RUSSIAN USERS ONLY

1.1. ATIS

*ATIS 127.75X

2. ARRIVAL

FOR RUSSIAN USERS ONLY

2.1. SPEED RESTRICTIONS

MAX 280 KT +/- 10 KT or Mach 0.8 whichever is less from cruising FL to FL250;

MAX 270 KT +/- 10 KT below FL250 to FL100;

MAX 250 KT +/- 10 KT below FL100 to TL.

- below transition level - IAS shall be as in accordance with the Aeroplane Flight Manual without exceeding IAS indicated in limitations section. The above mentioned IAS shall be maintained by the flight crew unless otherwise instructed by ATS unit or by the established approach procedure.

If unable to maintain the above mentioned IAS, the flight crew shall report it to ATS unit.

2.2. NOISE ABATEMENT PROCEDURES

2.2.1. NOISE ABATEMENT APPROACH PROCEDURES

General

Noise abatement APCH procedures shall be executed by crews of all aircraft for RWYs 12/30.

RWY 30 is a noise preferential RWY which shall be used to the maximum degree.

When meteorological phenomena dangerous (strong wind, CB, etc.) for a flight of ACFT are present in arrival and APCH sectors. The ATC can deviate from procedure shown below by own intention or by crew request due to safety reason.

The crews shall maintain the prescribed STAR routes and in case of deviation from them - join the assigned track immediately.

Restrictions

Noise abatement procedure shall be not executed under following conditions:

- RWY surface covered (for example: snow, slush, ice, water, dust, rubber, oil and other obstructions) and friction coefficient at this is 0.4 or less;
- visibility less than 1800m;
- cross-wind component is more than 7m/sec;
- back-wind component is more than 2.5m/sec;
- forecast or reported windshear, or expected, that CB can be elected for APP/LDG performance.

Immediately prior to the APCH the crews should avoid (as far as possible) excessive rates of descent. The change of flight configuration and ACFT speed, connected with noise abatement procedures, shall be carried out according to the requirements of the AFM for the specific ACFT type.

In case of instrument APCH and also in case of visual APCH flying below the ILS GS is prohibited.

No noise abatement procedures shall envisage the exceeding of the indicated rate of descent.

A displaced RWY THR shall not be used as a noise abatement measure.

During the execution of noise abatement procedures air-ground communication should be kept to a minimum.

Landing of ACFT with tail/wind component up to 5m/sec is allowed under the following conditions:

- RWY is dry or damp;
- friction coefficient is 0.5 or more;
- cross-wind component is not more than 5 m/sec.

Reverse thrust power (with the exception of reverse idle thrust) shall be used only for safety reasons.

2. ARRIVAL

Straight-in approach RWY 30

The noise abatement procedures are as follows: by the moment of reaching by ACFT the distance of 13.5 NM from RWY THR the crew must conduct the flight at 3330' maintaining 210 KT and flight direction enabling to intercept ILS LOC coverage area providing approach-to-land.

From distance of 11.9 NM the crew shall reduce IAS from 210 KT to 185 KT(+/-10KT) in order to intercept ILS LOC at distance 8.1 NM from RWY THR descending to 2020'. At distance 8.1 NM from RWY THR gear down.

After GS interception at 2020' the crew shall continue to reduce IAS in such way that by the moment of reaching 1690' select speed for flaps/slats landing position. After this limit the speed shall be maintained as per the AFM.

REMARK: Flaps/slats must be selected in landing position, Stab.Trimm Setting must be completed before LOM overfly.

Approach RWY 12

Gear down execute before final turn.

Flaps/slats shall be selected after glide slope interception at 2050' and continue descent, crew shall continue to reduce IAS in such way that by the moment of reaching 1720' select speed for flaps/slats landing position.

REMARK: By APCH for RWY 12 with racetrack width 4.3 NM, gear down procedure shall be carried out before beginning turn base-leg, and flaps/slats setting before final turn.

Flaps/slats must be selected in landing position, Stab.Trimm Setting must be completed before LOM overfly.

2.3. LOST COMMS

General

In case of radio communication failure the crew take measures to re-establish lost communication using all available means, radio communication with other ACFT and ATS units.

If radio communication re-established impossible, crew must:

- switch on the distress signal
- when SSR transponder is available, mode ATC(UVD) - "Avaria", mode RBS set "A" switch on squawk 7600 periodically identify with push button "ZNAK" (identification);
- use all available channels (frequency) continue transpond information about location, actions and flight status, without confirmation by ATC;
- use emergency frequency 121.5;
- maintain communication watch on the aerodrome LOM frequency 370 RWY 30 "RT" for reception of information and instructions issued by ATS unit controller;
- by receiving information from controller comply instructions. Confirm receiving information with maneuver given by ATC and pushing button RBS "ZNAK" or "Identification".

Radio communication failure after TMA entry

The flight crew shall continue flight at flight level, last assigned by ATC and conrmed by crew to LOM RWY30 RAMENSKOYE along entry route:

- NE NDB - BD NDB - BESTA - RUGEL - RW NDB - LOM RWY 30 Ramenskoye;
- BG NDB - FK NDB - GISIN - BESTA - RUGEL - RW NDB - LOM RWY 30 RAMENSKOYE;
- IP NDB - IN NDB - DR NDB - DMD VORDME - LOM RWY 30 RAMENSKOYE;
- FV NDB - AO NDB - LOM RWY30 RAMENSKOYE;
- SF NDB - MF NDB - ITINA - LOM RWY 30 RAMENSKOYE.

After passing LOM RWY 30 execute entering the holding area and carry out one standard flight at the last FL (altitude)* assigned. If necessary period of time for fuel dumping (jettisoning) can be extended.

Then pilot-in-command shall carry out descending and approach-to-land procedure based on the navigation facility;

* If flight level (altitude) at holding pattern above than FL138 - after entry to holding pattern, on 122° track begin descent to $H = (H_{init} + FL138)$.

2. ARRIVAL

After reach assigned altitude make a LEFT turn descending to FL138 to LOM RWY 30.

After passing LOM carry out one holding pattern standard flight at FL138.

If it not possible to land at Ramenskoye flight crew has the right:

- to alternate Vnukovo AD with climb FL69 along departure route and then:
LOM RWY 30 RAMENSKOYE - RW NDB - GEKLA - LOM RWY-in-use VNUKOVO then
pilot-in-command shall carry out descending and approach-to-land procedure based
on the navigation facility;
- to alternate Domodedovo AD climb FL69 along departure route and then:
LOM RWY 30 RAMENSKOYE - RW NDB - GEKLA - WT NDB - DMD VORDME
then pilot-in-command shall carry out descending and approach-to-land procedure
based on the navigation facility;
- to alternate Sheremetyevo AD climb FL69 along departure route and then:
LOM RWY 30 RAMENSKOYE - RW NDB - RUGEL - BESTA - LOM/LMM RWY-in-use
Sheremetyevo AD then pilot-in-command shall carry out descending and approach-to-
land procedure based on the navigation facility;
- to alternate aerodrome located outside Moscow Area chosen when making a
decision for departure at the lower safe flight level or at flight level (FL138, FL148,
or FL237, FL246) specially established for a flight without radio communication
depending on flight direction along the main departure route climbing to the
indicated flight level.

3. DEPARTURE

FOR RUSSIAN USERS ONLY

3.1. NOISE ABATEMENT PROCEDURES

3.1.1. TAKE-OFF AND CLIMBING PROCEDURE

General

Noise abatement procedure during take-off and climbing phase shall be executed by crews of all ACFT for departure RWYs 12/30.

When executing the noise abatement procedures, the provisions, concerning the responsibility of a pilot-in-command for carrying out a flight as in accordance with his duties to provide flight safety, shall remain in force.

Noise abatement procedures shall not be executed at the expense of reduction of flight safety. Noise abatement procedure shall not be executed in case of one of the ACFT engines failure during take-off phase.

Restrictions

Take-off of ACFT with tail-wind component up to 5m/sec is allowed under the following conditions:

- RWY is dry or damp;
- friction coefficient is 0.5 or more;
- cross-wind component is not more than 5 m/sec.

The change of flight direction (course) of the ACFT after take-off shall be permitted only after reaching a flight altitude of 800'.

The minimum indicated air speed during steady climb shall not be less than $V_2 + 10$ KT or not less than that prescribed in the Aeroplane Flight Manual if it has greater value.

The maintaining of the minimum indicated air speed of climb is not required if it brings to exceeding the maximum permissible angle of attack.

3. DEPARTURE

Noise abatement procedure shall not be applied until:

- the ACFT reaches 1200'
- established standard power mode enables with the maximum certified TKOF mass to maintain the steady climb gradient of not less than 4% at a speed specified above;
- take-off path provides overflying all obstacles located under the flight path with sufficient clearance both when all engines are operating normally and also taking into account possible engine failure and the time period necessary for the rest engines to develop full power.

Noise abatement procedure with reduced take-off thrusts shall be not executed under following conditions:

- RWY surface covered (for example: snow, slush, ice, water, dust, rubber and other obstructions) and friction coefficient at this is 0.4 or less;
- visibility less than 1800m;
- cross-wind component is more than 7m/sec;
- back-wind component is more than 2.5m/sec;
- forecast or reported windshear, or expected, that CB can be effected for TKOF/LDG performance. During take-off from RWY 30 climbing shall be performed with maximum possible climb gradient.

During take-off

RWY 12 is noise preferential RWY which shall be used to the maximum degree for ACFT take-off.

Take-off:

- take-off power
- take-off flaps/slats position

Reduced take-off thrust during take-off and climb shall be used according to OM ACFT.

The following two variants of take-off and climb procedures are applied:

NADP 1 is intended to provide noise reduction for noise-sensitive areas in close proximity to the departure and of the RWY- in- use;

NADP 2 provides noise reduction for noise areas more distant from the RWY end.

For both procedures, intermediate flap transitions required for specific performance related issues may be initiated prior to the prescribed minimum height; however, no power reduction can be initiated prior to attaining prescribed minimum altitude.

IAS for the initial portion of the departure prior to the acceleration segment is to be flown at a climb speed of $V_2 + 10-20$ KT.

Noise Abatement Procedures NADP1 and NADP2

Two variants of take-off and climb procedures are applied: NADP1 and NADP2 (ICAO Doc 8168, Volume 1, Part V, Chapter 3).

NADP1 is the main method for departure RWY 30.

3.2. LOST COMMS

General

In case of radio communication failure the crew take measures to re-establish lost communication using all available means, radio communication with other ACFT and ATS units.

If radio communication re-established impossible, crew must:

- switch on the distress signal
- when SSR transponder is available, mode ATC(UVD) - "Avaria", mode RBS set "A" switch on squawk 7600 periodically identify with push button "ZNAK" (identification);
- use all available channels (frequency) continue transpond information about location, actions and flight status, without confirmation by ATC;
- use emergency frequency 121.5;
- maintain communication watch on the aerodrome LOM frequency 370 RWY 30 "RT" for reception of information and instructions issued by ATS unit controller;
- by receiving information from controller comply instructions. Confirm receiving information with maneuver given by ATC and pushing button RBS "ZNAK" or "Identification".

3. DEPARTURE

Radio communication failure immediately after TKOF or after missed approach

If at 1060' communication with ATC not established, continue climb to 2050' and execute approach according to IAC. In case of radio communication failure immediately after TKOF or during missed APCH procedure;

-TKOF from RWY 30 for landing RWY 30, TKOF from RWY12 for landing RWY 12 carry out at least one circuit flight at 2050', and depending on the meteorological conditions and landing weight, shall carry out landing at AD Ramenskoye. Circuit width shall not exceed 5.4 NM.

-TKOF from RWY 12 for landing RWY 30, at 1060' turn onto 156° climbing 2050' proceed to base leg for RWY 30. After reach 2050' carry out APCH for RWY 30 without descent. After passing LOM RWY 30 carry out (STAR) and landing on RWY 30;

-after go around - execute missed APCH procedure, and depending on the meteorological conditions and landing weight, shall carry out landing at AD Ramenskoye. Circuit width shall not exceed 4.3 NM.

Cross-wind-leg shall be carried out not before passing opposite RWY THR.

In this cases crew has the right to land under conditions below landing minima.

In case of, ACFT weight exceed landing weight and conditions provides for fuel use (dumping) before landing at departure AD, crew must:

-after passing LOM RWY 30 at 2020' carry out the procedure of entering the holding area climbing FL59 and continue fly in it within a period of time necessary for fuel dumping (jettisoning).

Fuel dumping shall be carried out in zone after passing abeam LOM RWY 30, out of localities.

-after completed fuel dumping proceed to LOM RWY 30, carry out priority APCH to land in accordance to published chart.

If due to meteorological conditions or other reasons landing at Ramenskoye AD, and fuel dumping is not possible, then after executing the missed APCH procedure, crew has the right proceed:

- to alternate Vnukovo AD climbing FL69 on departure route and then:

LOM RWY 30 - RWNDB - GEKLA - WT NDB - LOM RWY in use Vnukovo AD and then descent and approach according to chart;

- to alternate Domodedovo AD climbing FL69 on departure route and then:

LOM RWY 30 - RW NDB - GEKLA - WT NDB - DMD VORDME and then descent and approach according to chart;

- to alternate Sheremetyevo AD climbing FL69 on departure route and then:

LOM RWY 30 - RW NDB - GEKLA - RUGEL -BESTA - LOM/LMM RWY in use

Sheremetyevo AD and then descent and approach according to chart;

- to the alternate aerodrome located outside Moscow Area at MEL or at flight level specially established for a flight without radio communication depending on flight direction (FL138, FL148, or FL237, FL246) along departure route climbing to the indicated flight level;

- to the destination aerodrome climbing to altitude (flight level), indicated in the flight plan, along the route as in accordance with the flight plan and land at the destination aerodrome with minimum deviations from the time indicated in FPL.

Radio communication failure before leaving TMA

Carry out main procedures.

The flight crew shall continue flight at flight level, last assigned by ATC to LOM RWY 30. After passing LOM RWY 30 execute entering the holding area and carry out one standard flight at the last FL assigned. If necessary period of time for fuel dumping (jettisoning) can be extended. Then pilot-in-command shall carry out descending and APCH-to-land procedure based on the navigation facility.

3. DEPARTURE

Radio communication failure after leaving TMA before passing last exit point

Carry out main procedures.

Make a 180° turn and continue flight at flight level, last assigned by ATC to LOM RWY 30. After passing LOM RWY 30 execute entering the holding area and carry out one standard flight at the last FL assigned. If necessary, period of time for fuel dumping (jettisoning) can be extended. Then pilot-in-command shall carry out descending and APCH-to-land procedure based on the navigation facility.

Radio communication failure after passing last point of departure route

Carry out main procedure.

The flight crew shall continue flight at flight level, last assigned by ATC and confirmed by crew till passing NDB of TMA exit corridor. After passing NDB of TMA exit corridor the flight crew has the right:

- a) to proceed to destination AD climbing to flight level (altitude), indicated in the flight plan, along the route in accordance with flight plan and land at the destination AD with minimum deviations from the indicated time;
- b) to return to the departure aerodrome of Ramenskoye without changing the last flight level (altitude) assigned by the controller via nearest TMA entry corridor along the following routes:

- NE NDB - BD NDB - SW NDB - BESTA - RUGEL - RW NDB - LOM RWY 30 Ramenskoye;
- BG NDB - FK NDB - GISIN - BESTA - RUGEL - RW NDB - LOM RWY 30 RAMENSKOYE;
- IP NDB - IN NDB - DR NDB - DMD VORDME - LOM RWY 30 RAMENSKOYE;
- FV NDB - FE NDB - AO NDB - LOM RWY 30 RAMENSKOYE;
- SF NDB - MF NDB - ITINA - LOM RWY 30 RAMENSKOYE.3

After passing LOM RWY 30 execute entering the holding area and carry out one standard flight at the last FL (altitude)* assigned. If necessary period of time for fuel dumping (jettisoning) can be extended. Then pilot-in-command shall carry out descending and APCH-to-land procedure based on the navigation facility;

* If flight level (altitude) at holding pattern above than FL138 - after entry to holding pattern, on 122° track begin descent to $H = (H_{init} + FL138)$.

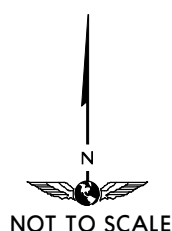
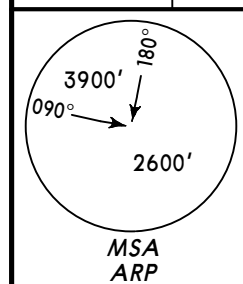
After reach assigned altitude make a LEFT turn descending to FL138 to LOM RWY 30. After passing LOM carry out one holding pattern standard flight at FL138.

STAR TRANS DESIGNATION	REFER TO CHART
BD 2R, 4R, SW 2R	10-2A
MF 2R, 4R	10-2B
FE 2R, 4R, IN 2AR, 2BR, 4R, TIKBI 2R	10-2C
FK 4AR, 4BR, 2R	10-2D

STAR DESIGNATION	REFER TO CHART
RW 2A	10-2E
RW 2B, 2C	10-2F
RW 4A	10-2G
RW 4B, 4C, 4D	10-2H
ITINA 2A	10-2J
ITINA 2B, 2C	10-2K
ITINA 4A	10-2L
ITINA 4B, 4C, 4D	10-2M
OKREM, RELTO & TIKBI 2A	10-2N
OKREM, RELTO & TIKBI 2B	10-2P
OKREM, RELTO & TIKBI 4A	10-2Q
OKREM, RELTO & TIKBI 4B	10-2S
AO 2A	10-2T
AO 2B	10-2U
AO 4A	10-2V
AO 4B, 4C	10-2W
DMD 2A	10-2X
DMD 2B	10-2X1
DMD 4A	10-2X2
DMD 4B, 4C	10-2X3
LOST COMMS	10-2X4

FOR RUSSIAN USERS ONLY

*ATIS 127.75X	GORDY Approach 125.25	Apt Elev 404'	Alt Set: MM (hPa on request) QNH on request (QFE) Trans level: FL60 FL70 if pressure is less than 748mm (997.3 hPa) FL80 if pressure is less than 721mm (961.3 hPa) Trans alt (hgt): 4350' (3946') ACFT shall be carried out communication check with GORDY Approach 30-40 min before ETA.
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BOGDANOVO
360 BD
N57 06.0 E037 42.9

BD 2R, SW 2R
TO RW

BD 4R
TO DMD

TRANSITIONS

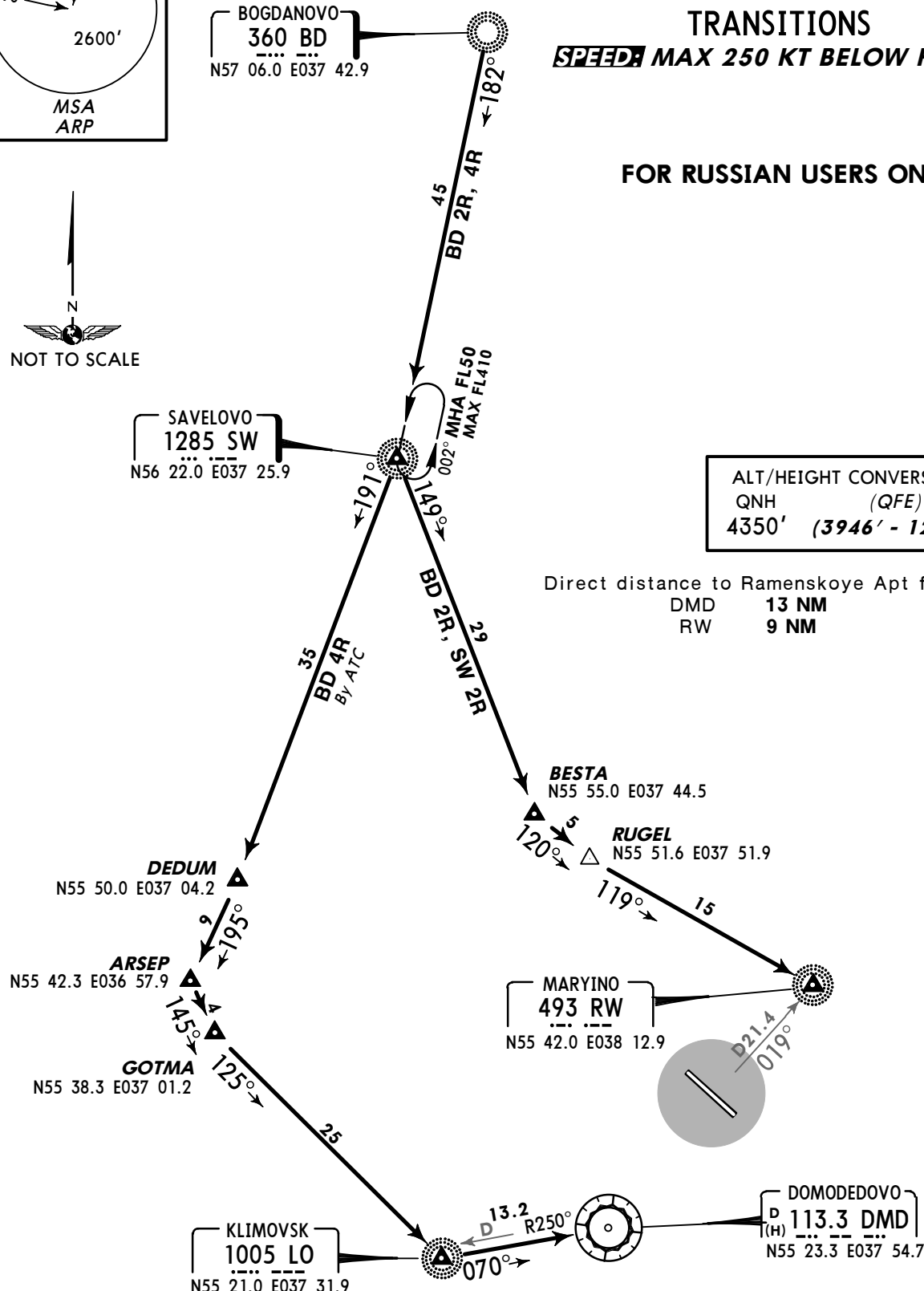
~~SPEED~~ MAX 250 KT BELOW FL100

FOR RUSSIAN USERS ONLY

SAVELOVO
1285 SW
N56 22.0 E037 25.9

ALT/HEIGHT CONVERSION
QNH (QFE)
4350' (3946' - 1200m)

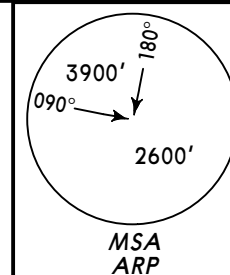
Direct distance to Ramenskoye Apt from:
DMD **13 NM**
RW **9 NM**



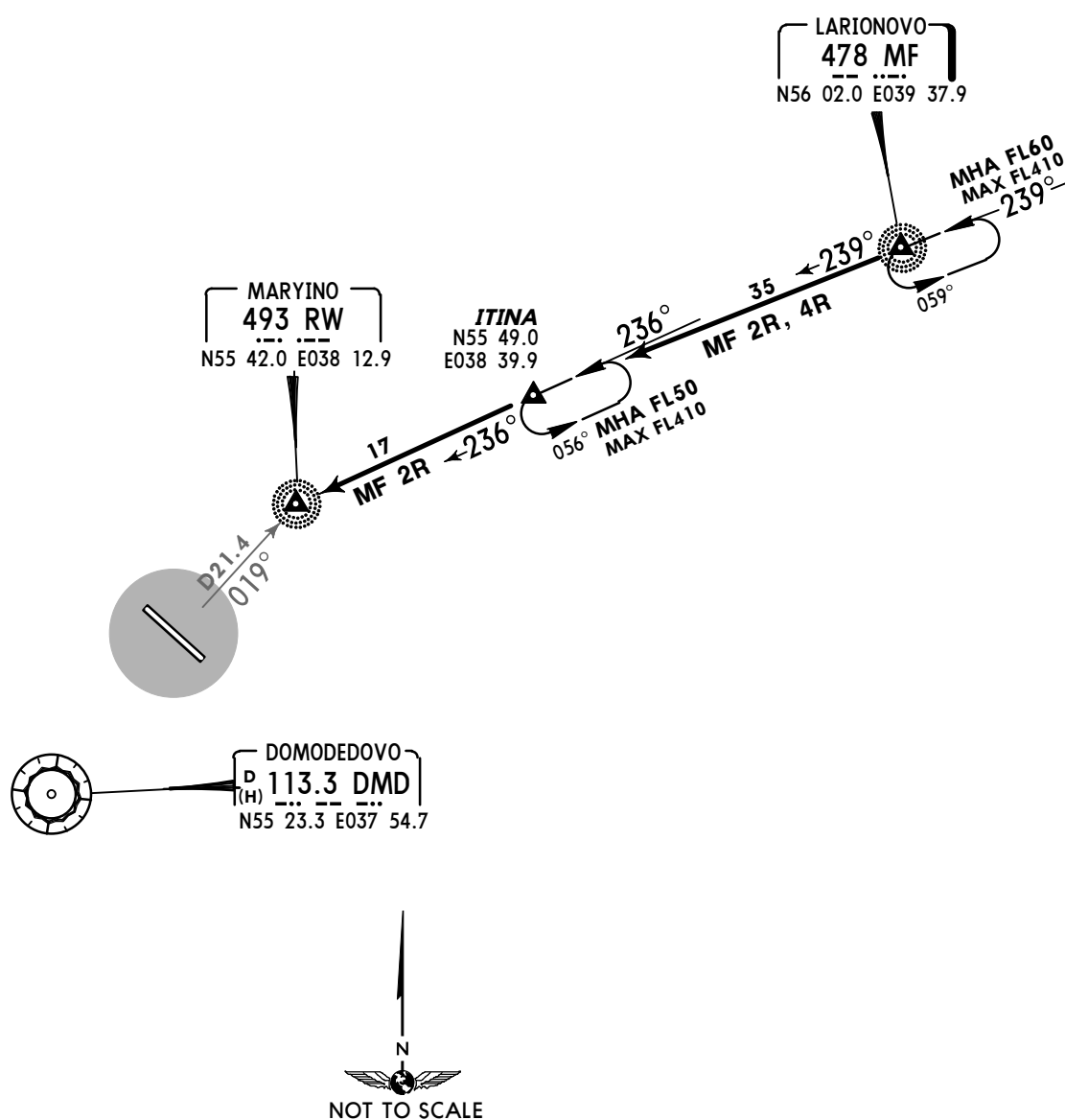
TRANSITION	ROUTING
BD 2R	To SW, then to BESTA, then to RUGEL, then to RW.
BD 4R	To SW, then to DEDUM, then to ARSEP, then to GOTMA, then to LO, then to DMD.
SW 2R	To BESTA, then to RUGEL, then to RW.

*ATIS 127.75X	GORDY Approach 125.25	Apt Elev 404'	Alt Set: MM (hPa on request) QNH on request (QFE) Trans level: FL60 FL70 if pressure is less than 748mm (997.3 hPa) FL80 if pressure is less than 721mm (961.3 hPa) Trans alt (hgt): 4350' (3946') ACFT shall be carried out communication check with GORDY Approach 30-40 min before ETA.
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MF 2R MF 4R
TO RW TO ITINA
TRANSITIONS
~~SPEED~~ MAX 250 KT BELOW FL100



FOR RUSSIAN USERS ONLY



Direct distance from RW to:
Ramenskoye Apt 9 NM

ALT/HEIGHT CONVERSION
QNH (**QFE**)
4350' (**3946' - 1200m**)

TRANSITION	ROUTING
MF 2R	To ITINA, then to RW.
MF 4R	To ITINA.

*ATIS 127.75X	GORDY Approach 125.25	Apt Elev 404'	Alt Set: MM (hPa on request) QNH on request (QFE) Trans level: FL60 FL70 if pressure is less than 748mm (997.3 hPa) FL80 if pressure is less than 721mm (961.3 hPa) Trans alt (hgt): 4350' (3946') ACFT shall be carried out communication check with GORDY Approach 30-40 min before ETA.
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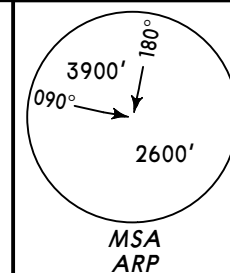
FE 2R
IN 4R
TO AO

FE 4R
IN 2AR, IN 2BR
TO DMD

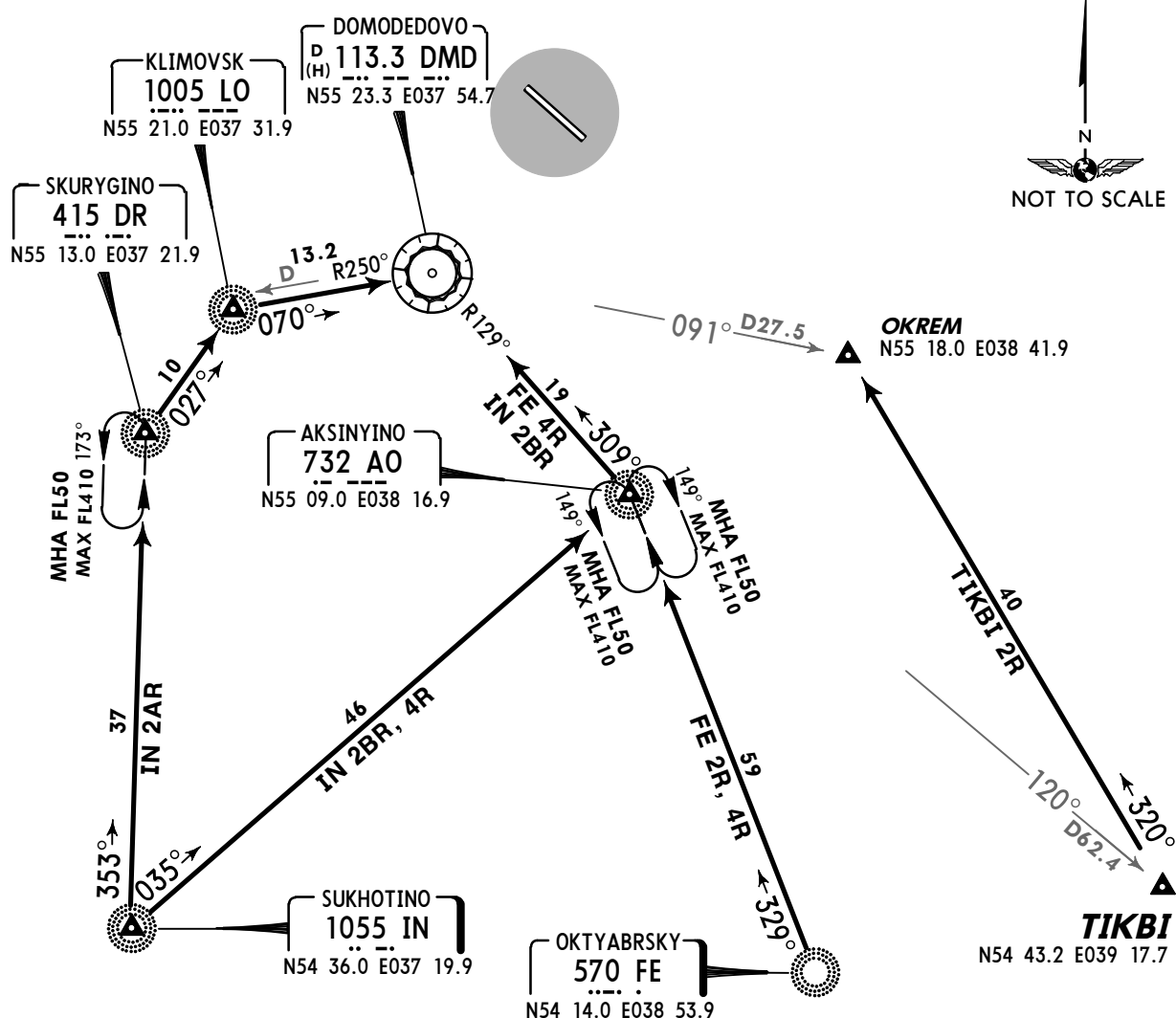
TIKBI 2R
[TIK2R]
TO OKREM

TRANSITIONS

~~SPEED~~ MAX 250 KT BELOW FL100



FOR RUSSIAN USERS ONLY



Direct distance to Ramenskoye Apt from:

DMD 13 NM
OKREM 24 NM

ALT/HEIGHT CONVERSION
QNH (QFE)
4350' (3946' - 1200m)

TRANSITION	ROUTING
FE 2R, IN 4R	To AO.
FE 4R, IN 2BR	To AO, then to DMD.
IN 2AR	To DR, then to LO, then to DMD.
TIKBI 2R	To OKREM.

*ATIS 127.75X	GORDY Approach 125.25	Apt Elev 404'	Alt Set: MM (hPa on request) QNH on request (QFE) Trans level: FL60 FL70 if pressure is less than 748mm (997.3 hPa) FL80 if pressure is less than 721mm (961.3 hPa) Trans alt (hgt): 4350' (3946') ACFT shall be carried out communication check with GORDY Approach 30-40 min before ETA.
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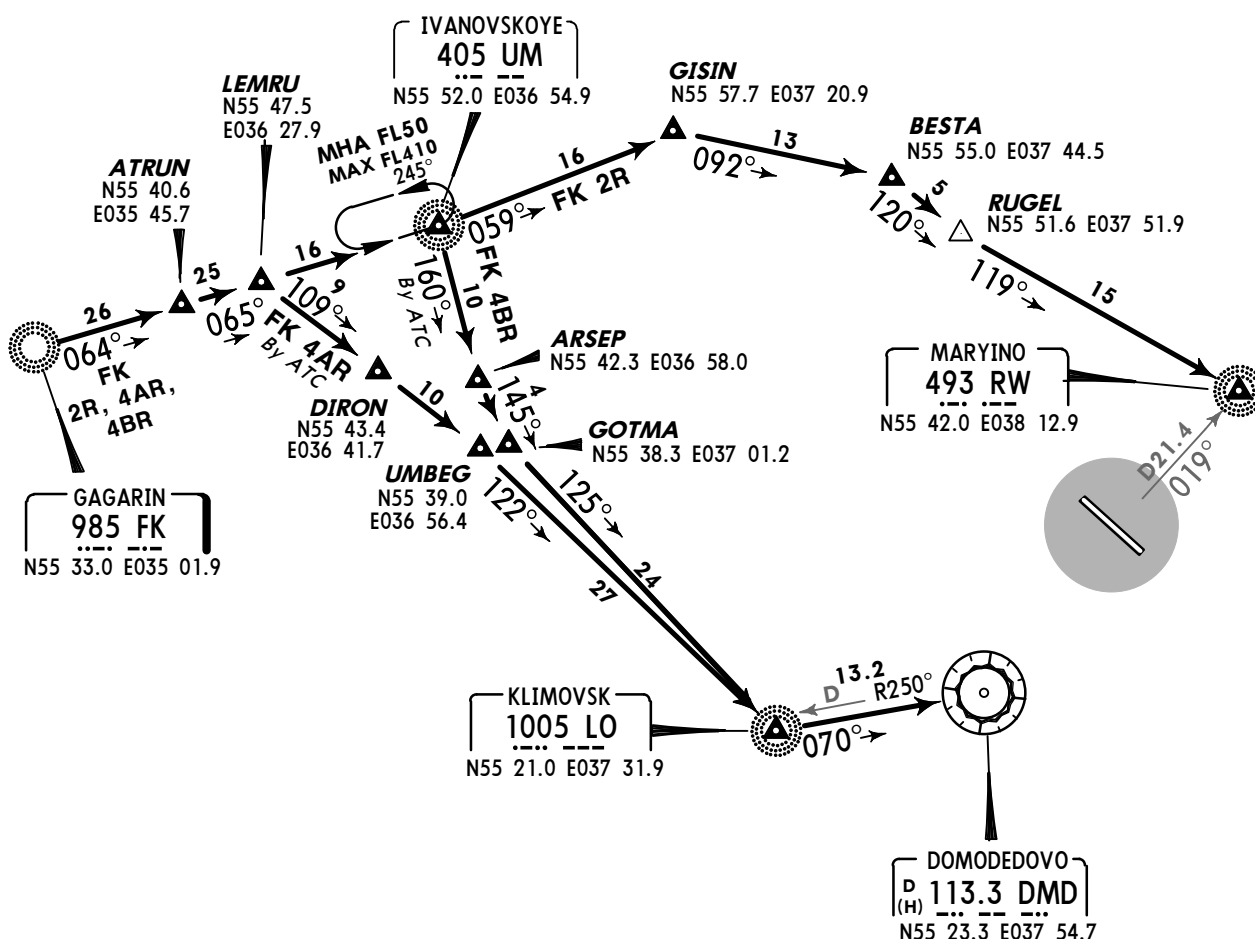
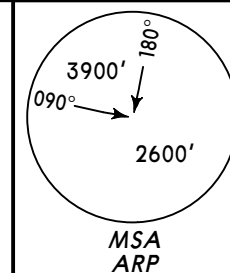
FK 4AR, FK 4BR
TO DMD

FK 2R
TO RW

TRANSITIONS

~~SPEED~~ MAX 250 KT BELOW FL100

FOR RUSSIAN USERS ONLY



ALT/HEIGHT CONVERSION
QNH (QFE)
4350' (3946' - 1200m)



Direct distance to Ramenskoye Apt from:
DMD 13 NM
RW 9 NM

TRANSITION	ROUTING
FK 4AR	To ATRUN, then to LEMRU, then to DIRON, then to UMBEG, then to LO, then to DMD.
FK 4BR	To ATRUN, then to LEMRU, then to UM, then to ARSEP, then to GOTMA, then to LO, then to DMD.
FK 2R	To ATRUN, then to LEMRU, then to UM, then to GISIN, then to BESTA, then to RUGEL, then to RW.

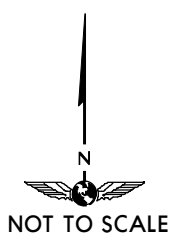
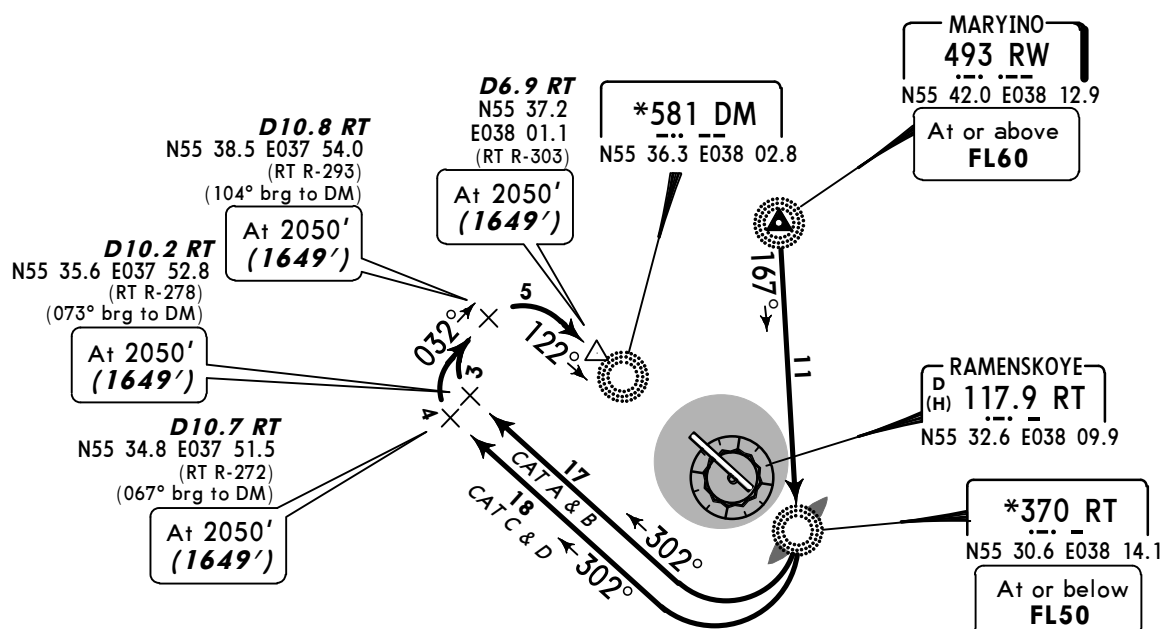
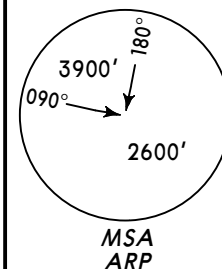
*ATIS
127.75X

Apt Elev
404'

Alt Set: MM (hPa on request) QNH on request (QFE)
Trans level: FL60
FL70 if pressure is less than 748mm (997.3 hPa)
FL80 if pressure is less than 721mm (961.3 hPa)
Trans alt (hgt): 4350' (3949')
Crossings at airway exit points by ATC.

RW 2A
RWY 12 ARRIVAL

FOR RUSSIAN USERS ONLY



ALT/HEIGHT CONVERSION
QNH (QFE)
4350' (3949' - 1200m)
2050' (1649' - 500m)

HOLDING OVER
RT LCTR



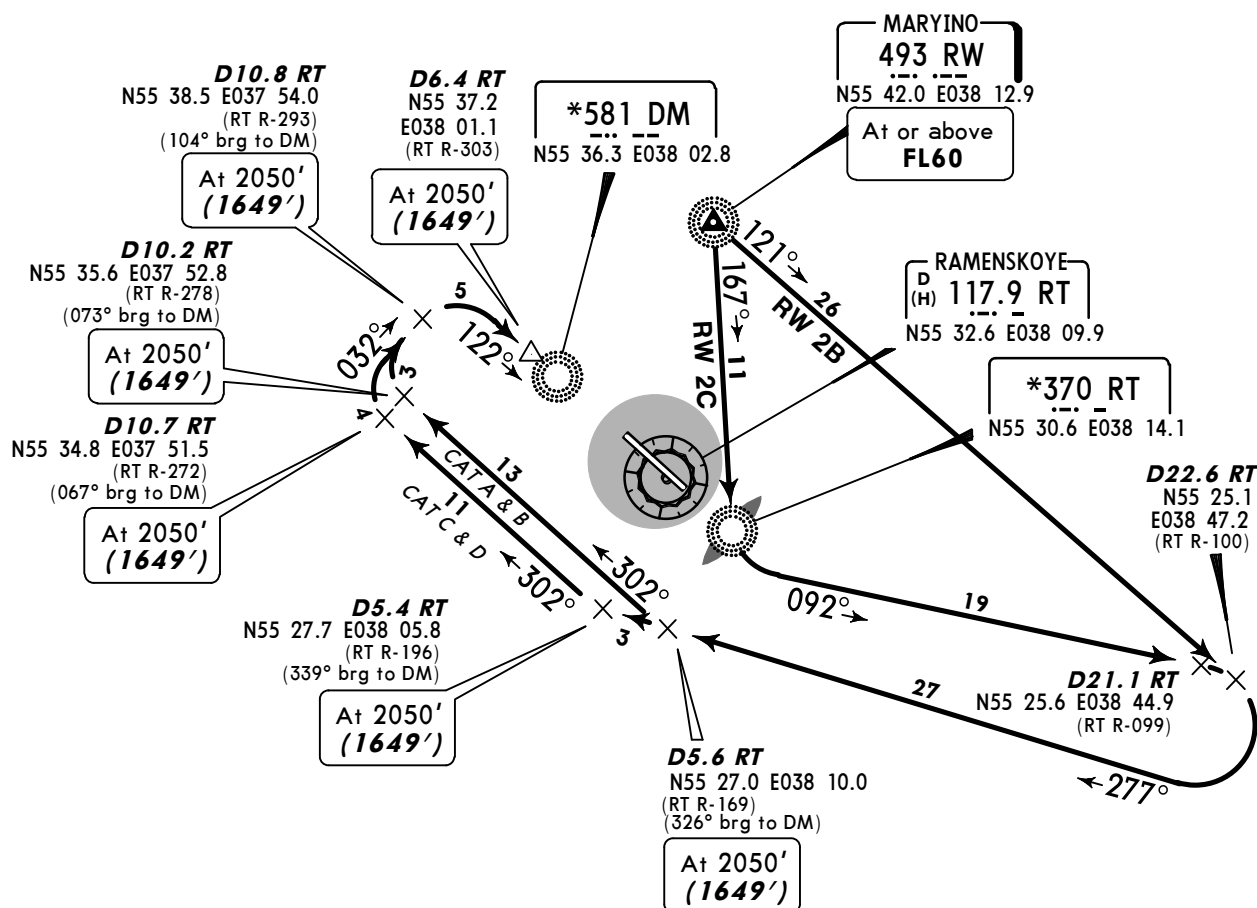
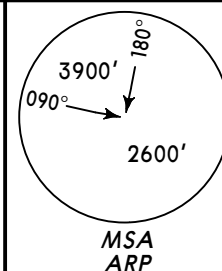
*ATIS
127.75X

Apt Elev
404'

Alt Set: MM (hPa on request) QNH on request (**QFE**)
Trans level: FL60
FL70 if pressure is less than 748mm (997.3 hPa)
FL80 if pressure is less than 721mm (961.3 hPa)
Trans alt (hgt): 4350' (**3949'**)
Crossings at airway exit points by ATC.

RW 2B, RW 2C
RWY 12 ARRIVALS
BY ATC

FOR RUSSIAN USERS ONLY



ALT/HEIGHT CONVERSION
QNH (**QFE**)
4350' (3949' - 1200m)
2050' (1649' - 500m)



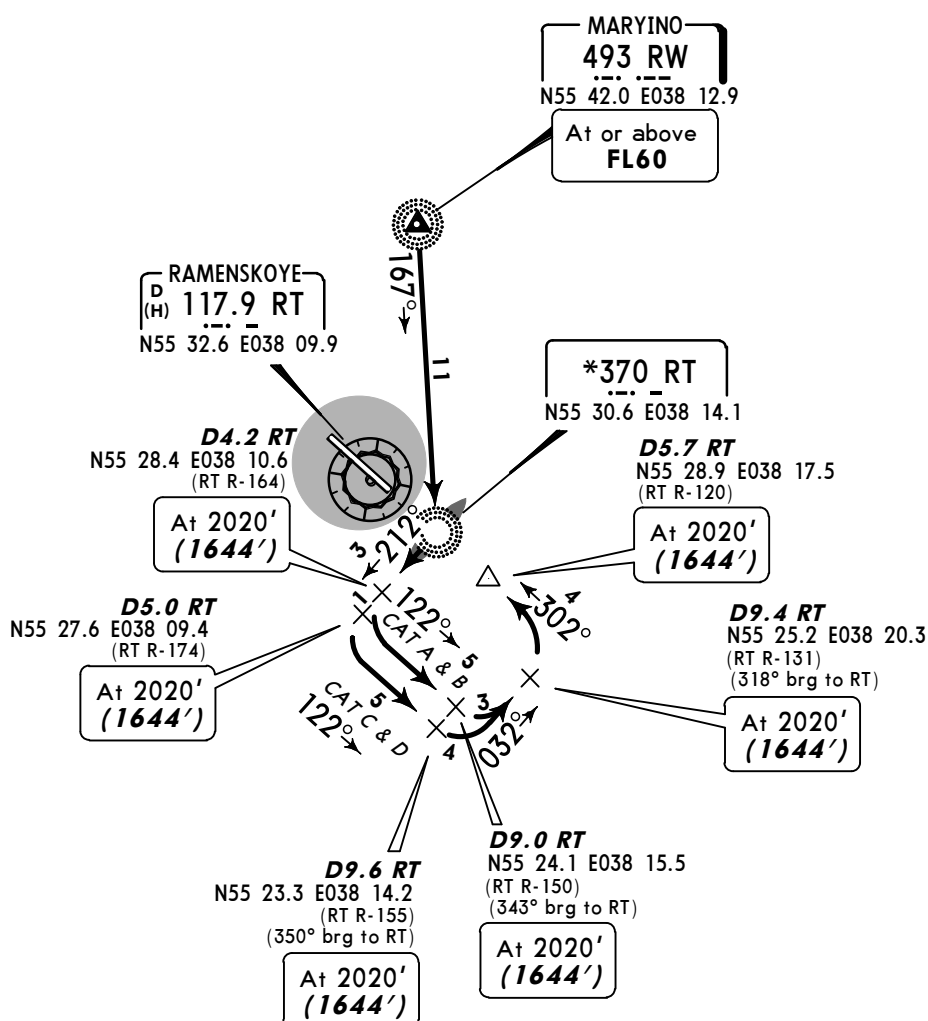
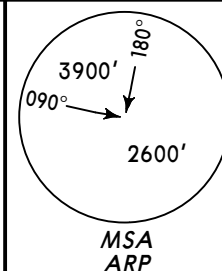
*ATIS
127.75X

Apt Elev
404'

Alt Set: MM (hPa on request) QNH on request (QFE)
Trans level: FL60
FL70 if pressure is less than 748mm (997.3 hPa)
FL80 if pressure is less than 721mm (961.3 hPa)
Trans alt (hgt): 4350' (3974')
Crossings at airway exit points by ATC.

RW 4A RWY 30 ARRIVAL

FOR RUSSIAN USERS ONLY



HOLDING OVER
RT LCTR



ALT/HEIGHT CONVERSION
QNH (QFE)
4350' (3974' - 1200m)
2020' (1644' - 500m)

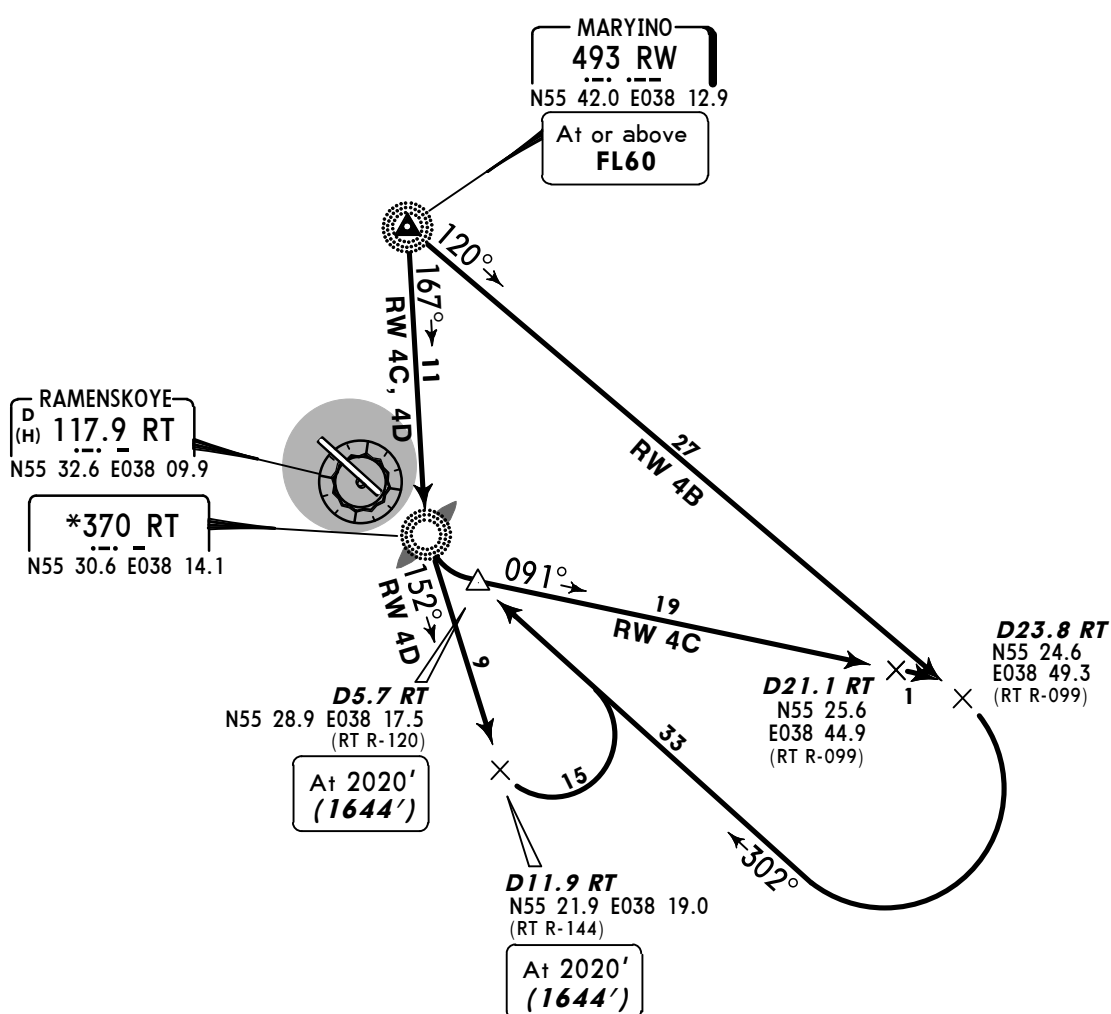
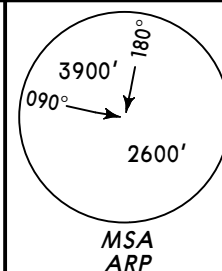
*ATIS
127.75X

Apt Elev
404'

Alt Set: MM (hPa on request) QNH on request (QFE)
Trans level: FL60
FL70 if pressure is less than 748mm (997.3 hPa)
FL80 if pressure is less than 721mm (961.3 hPa)
Trans alt (hgt): 4350' (3974')
Crossings at airway exit points by ATC.

RW 4B, RW 4C, RW 4D
RWY 30 ARRIVALS
BY ATC

FOR RUSSIAN USERS ONLY



ALT/HEIGHT CONVERSION
QNH (QFE)
4350' (3974' - 1200m)
2020' (1644' - 500m)



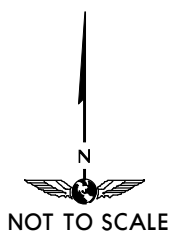
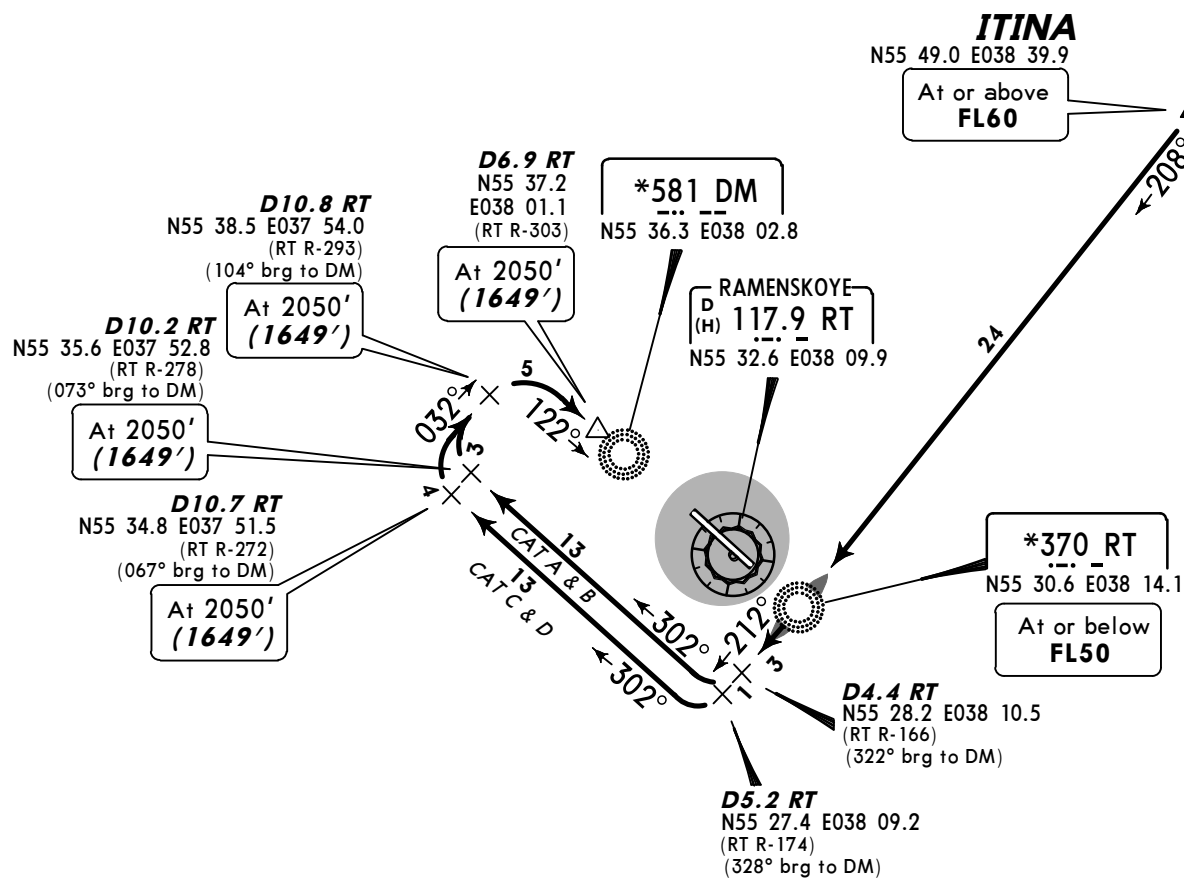
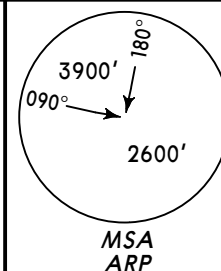
*ATIS
127.75X

Apt Elev
404'

Alt Set: MM (hPa on request) QNH on request (QFE)
Trans level: FL60
FL70 if pressure is less than 748mm (997.3 hPa)
FL80 if pressure is less than 721mm (961.3 hPa)
Trans alt (hgt): 4350' (3949')
Crossings at airway exit points by ATC.

ITINA 2A [ITIN2A] RWY 12 ARRIVAL

FOR RUSSIAN USERS ONLY



HOLDING OVER RT LCTR



ALT/HEIGHT CONVERSION
QNH (QFE)
4350' (3949' - 1200m)
2050' (1649' - 500m)

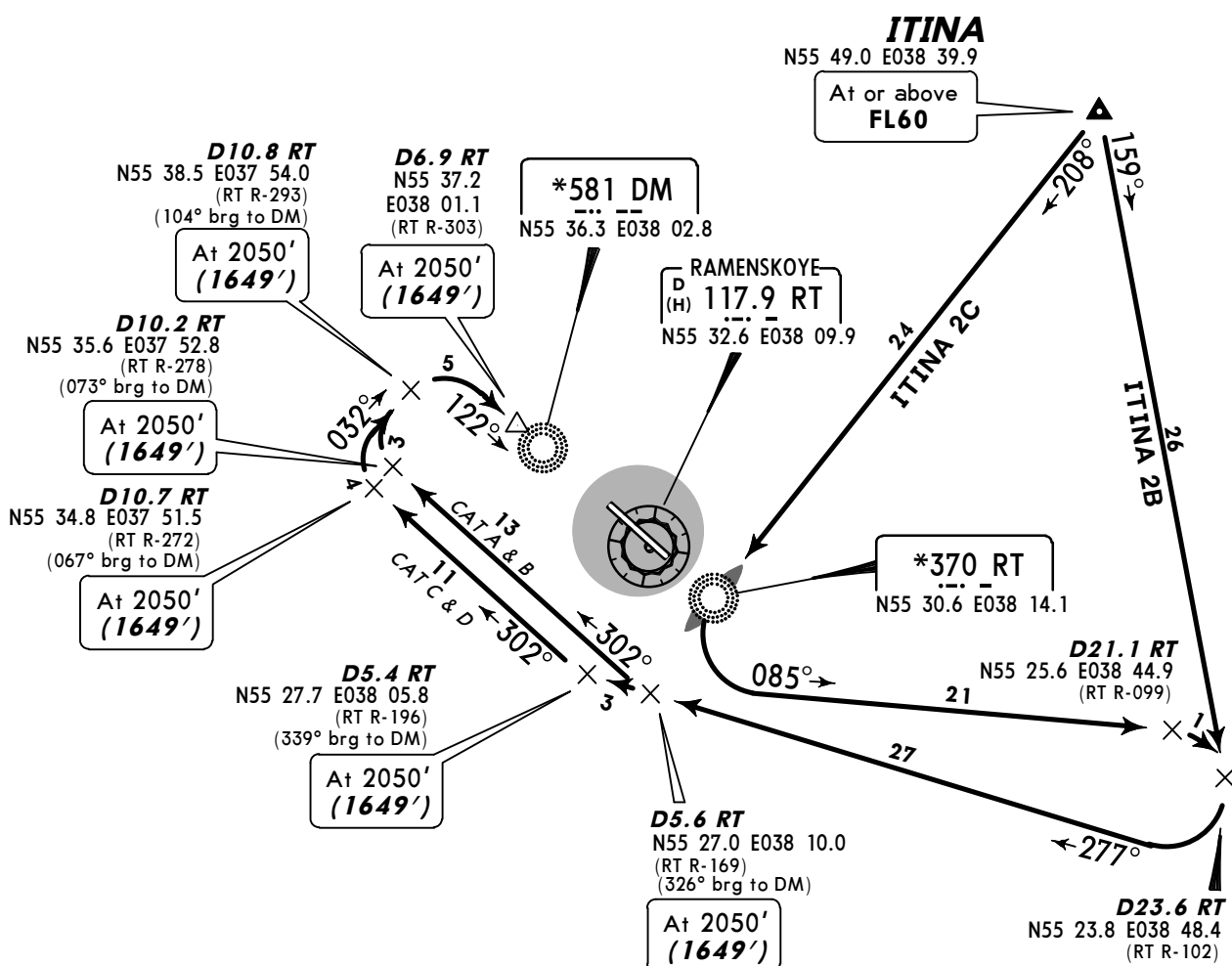
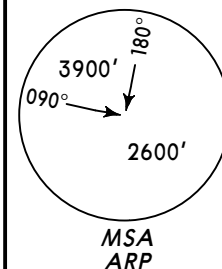
*ATIS
127.75X

Apt Elev
404'

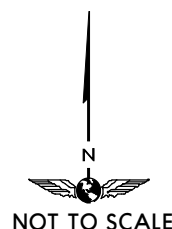
Alt Set: MM (hPa on request) QNH on request (**QFE**)
Trans level: FL60
FL70 if pressure is less than 748mm (997.3 hPa)
FL80 if pressure is less than 721mm (961.3 hPa)
Trans alt (hgt): 4350' (**3949'**)
Crossings at airway exit points by ATC.

ITINA 2B [ITIN2B], ITINA 2C [ITIN2C]
RWY 12 ARRIVALS
BY ATC

FOR RUSSIAN USERS ONLY



ALT/HEIGHT CONVERSION
QNH (**QFE**)
4350' (**3949' - 1200m**)
2050' (**1649' - 500m**)



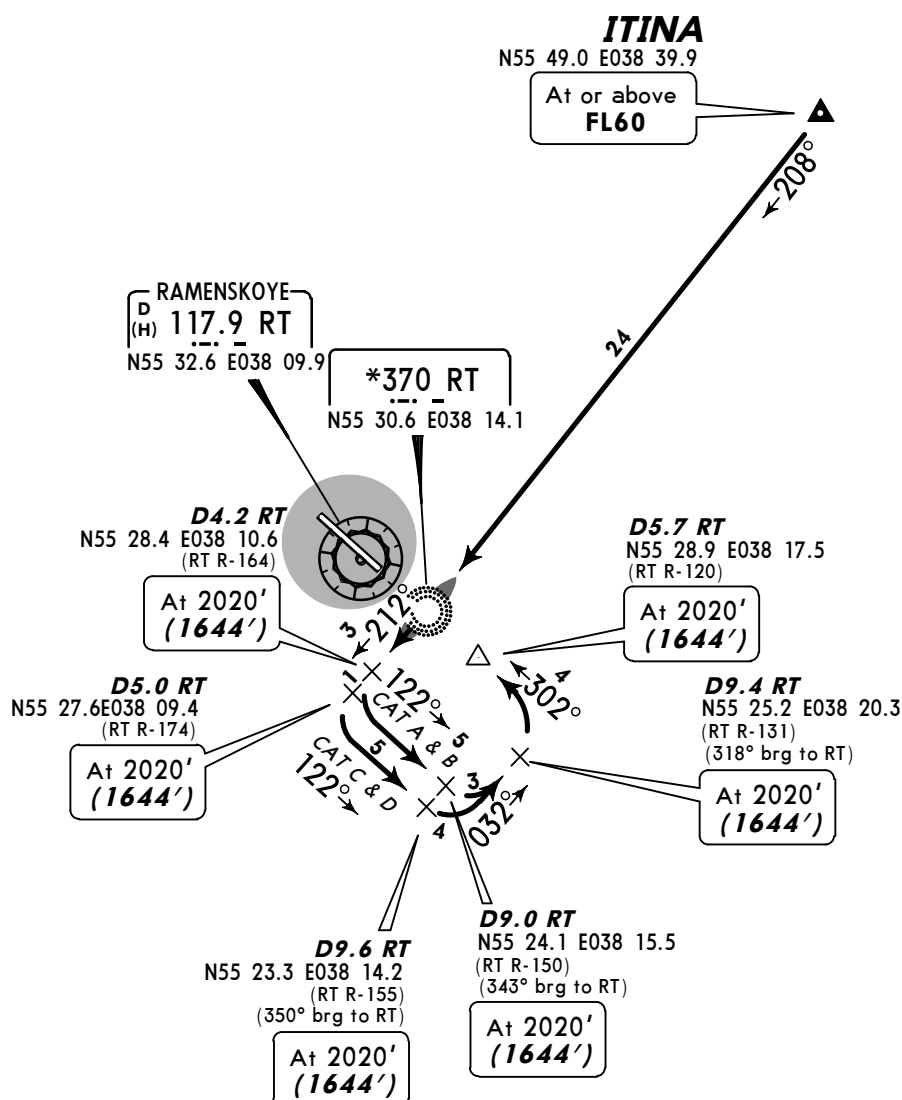
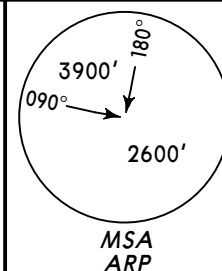
*ATIS
127.75X

Apt Elev
404'

Alt Set: MM (hPa on request) QNH on request (QFE)
Trans level: FL60
FL70 if pressure is less than 748mm (997.3 hPa)
FL80 if pressure is less than 721mm (961.3 hPa)
Trans alt (hgt): 4350' (3974')
Crossings at airway exit points by ATC.

ITINA 4A [ITIN4A] RWY 30 ARRIVAL

FOR RUSSIAN USERS ONLY



ALT/HEIGHT CONVERSION
QNH (QFE)
4350' (3974' - 1200m)
2020' (1644' - 500m)

HOLDING OVER
RT LCTR

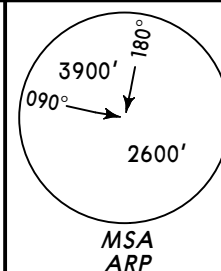


*ATIS
127.75X

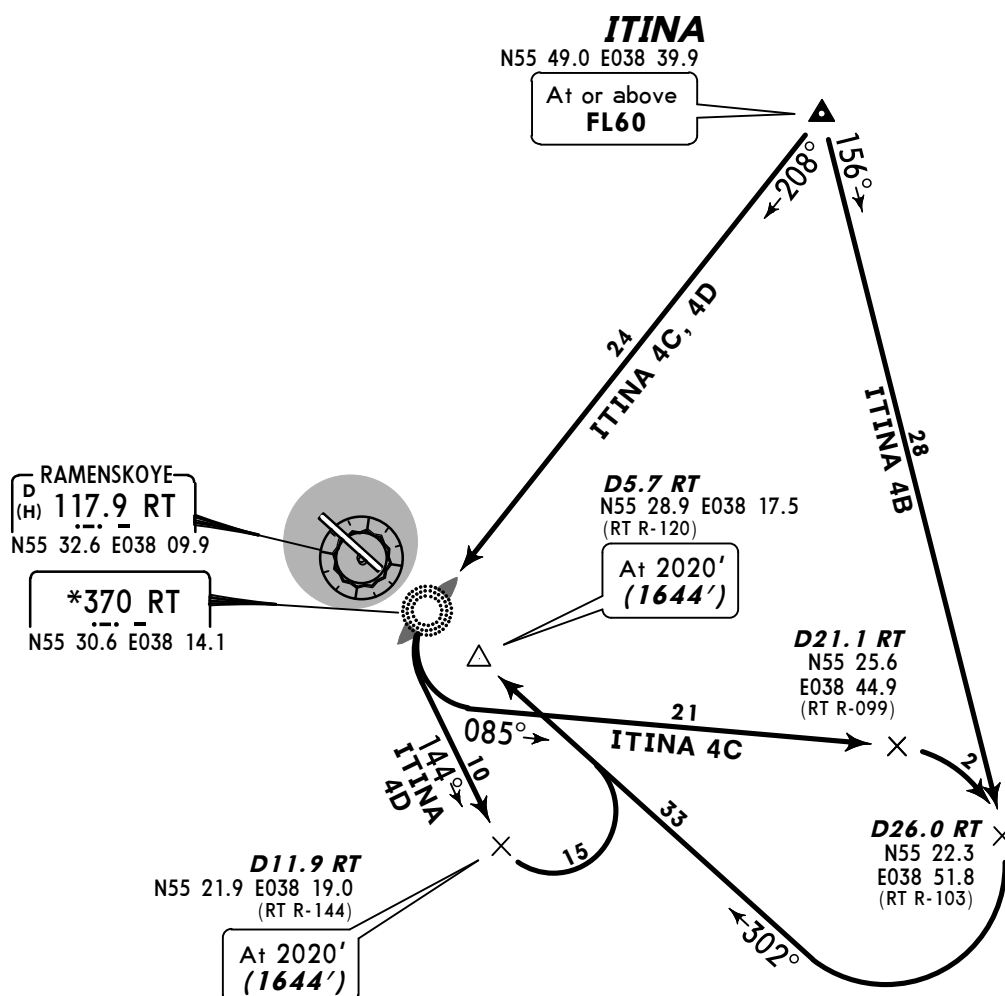
Apt Elev
404'

Alt Set: MM (hPa on request) QNH on request (QFE)
Trans level: FL60
FL70 if pressure is less than 748mm (997.3 hPa)
FL80 if pressure is less than 721mm (961.3 hPa)
Trans alt (hgt): 4350' (3974')
Crossings at airway exit points by ATC.

ITINA 4B [ITIN4B], ITINA 4C [ITIN4C]
ITINA 4D [ITIN4D]
RWY 30 ARRIVALS
BY ATC



FOR RUSSIAN USERS ONLY



ALT/HEIGHT CONVERSION
QNH (QFE)
4350' (3974' - 1200m)
2020' (1644' - 500m)

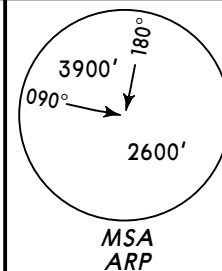


*ATIS
127.75X

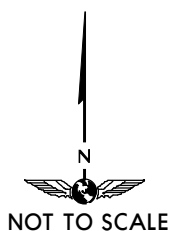
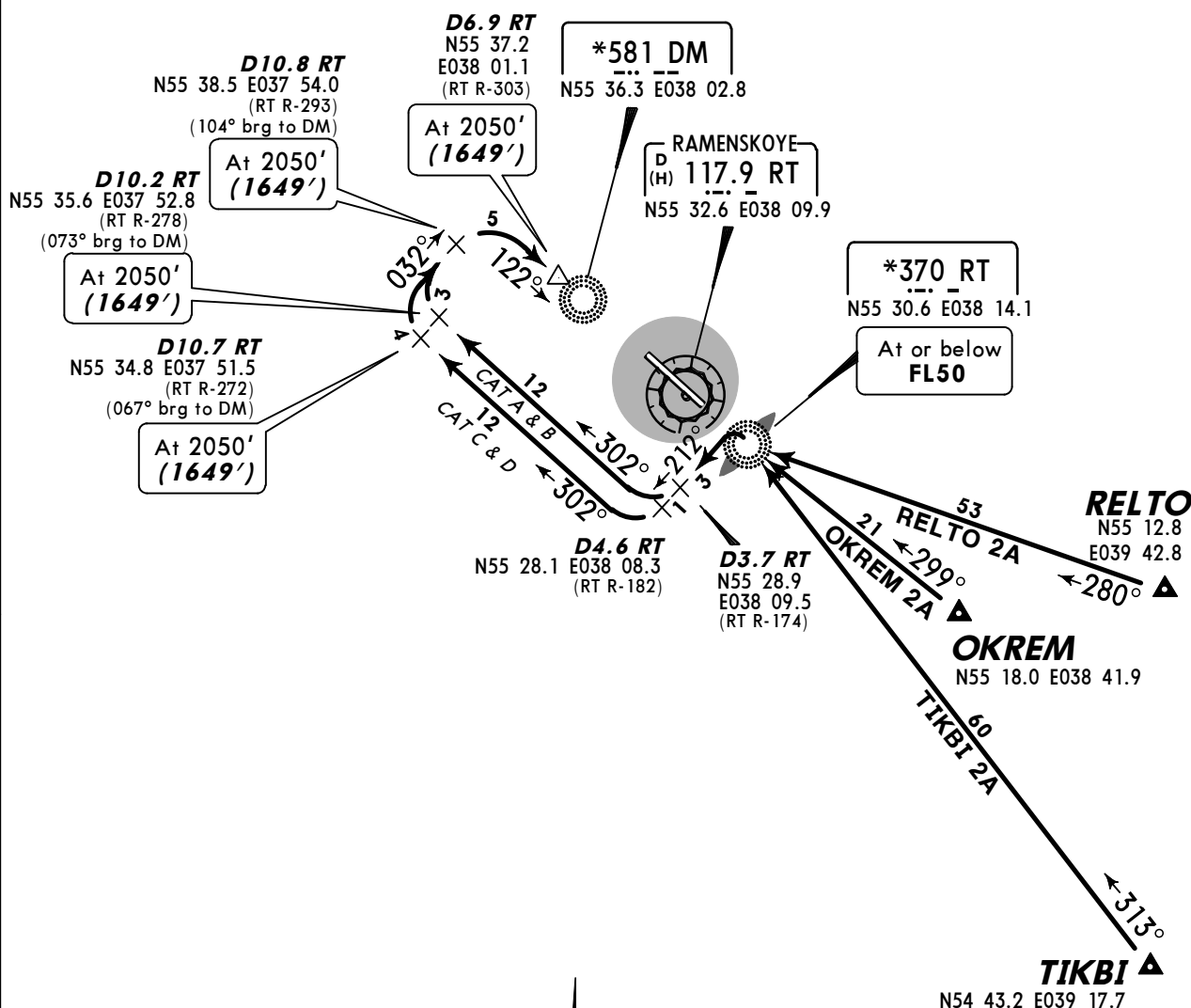
Apt Elev
404'

Alt Set: MM (hPa on request) QNH on request (QFE)
Trans level: FL60
FL70 if pressure is less than 748mm (997.3 hPa)
FL80 if pressure is less than 721mm (961.3 hPa)
Trans alt (hgt): 4350' (3949')
Crossings at airway exit points by ATC.

OKREM 2A [OKRE2A]
RELTO 2A [RELT2A]
TIKBI 2A [TIKB2A]
RWY 12 ARRIVALS
BY ATC



FOR RUSSIAN USERS ONLY



ALT/HEIGHT CONVERSION
QNH (QFE)
4350' (3949' - 1200m)
2050' (1649' - 500m)

HOLDING OVER
RT LCTR

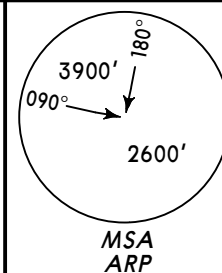


*ATIS
127.75X

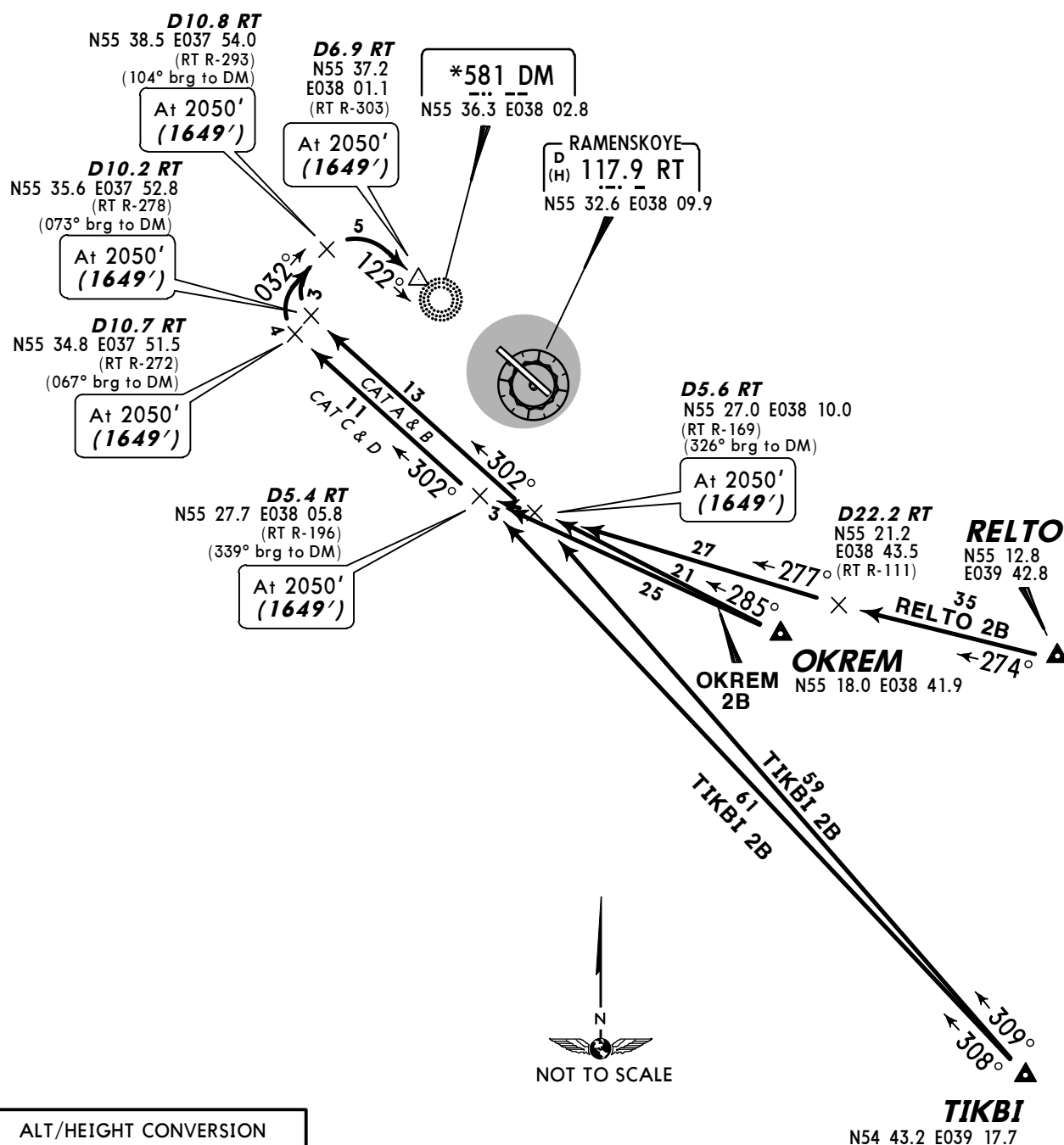
Apt Elev
404'

Alt Set: MM (hPa on request) QNH on request (**QFE**)
Trans level: FL60
FL70 if pressure is less than 748mm (997.3 hPa)
FL80 if pressure is less than 721mm (961.3 hPa)
Trans alt (hgt): 4350' (**3949'**)
Crossings at airway exit points by ATC.

OKREM 2B [OKRE2B]
RELTO 2B [RELT2B]
TIKBI 2B [TIKB2B]
RWY 12 ARRIVALS
BY ATC



FOR RUSSIAN USERS ONLY



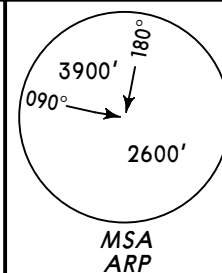
ALT/HEIGHT CONVERSION
QNH (QFE)
4350' (3949' - 1200m)
2050' (1649' - 500m)

*ATIS
127.75X

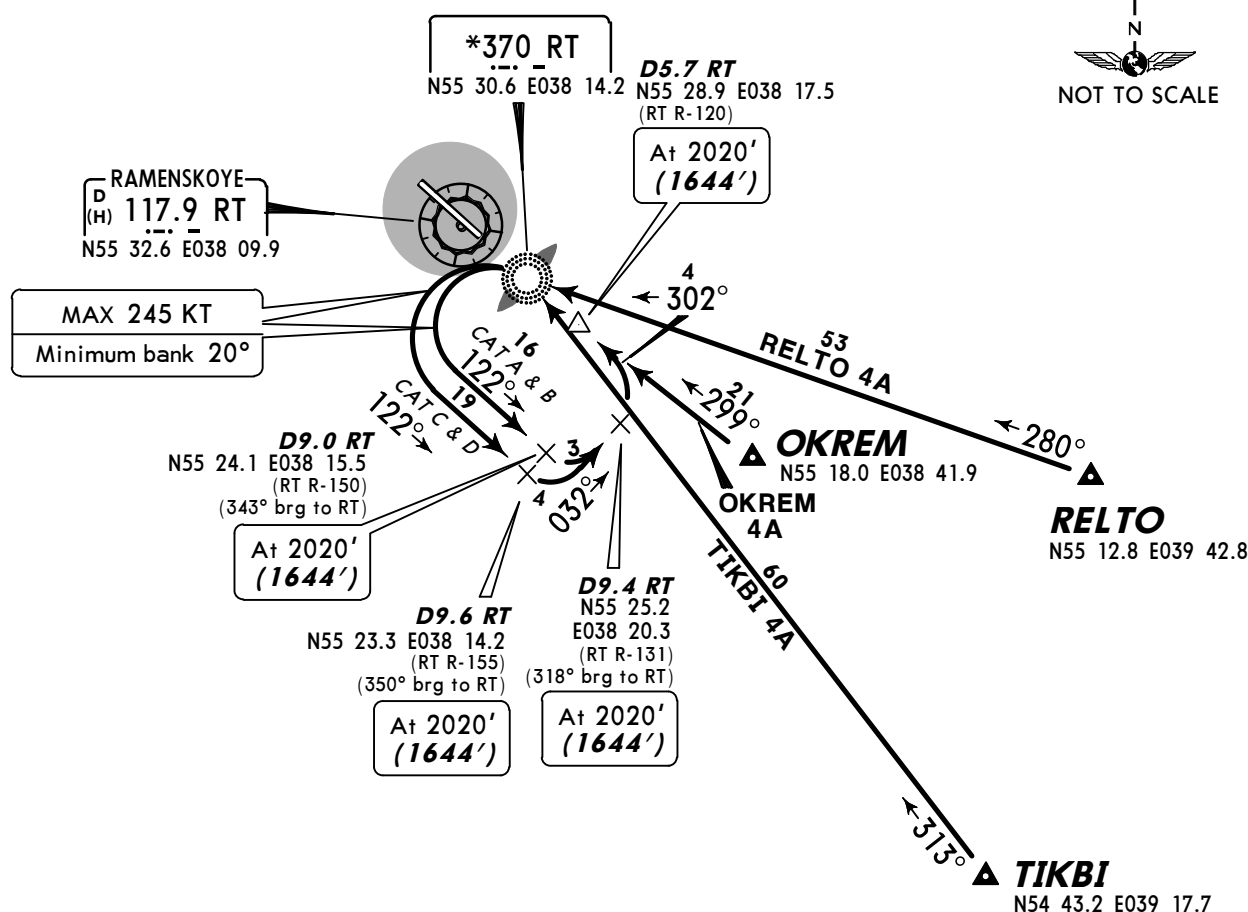
Apt Elev
404'

Alt Set: MM (hPa on request) QNH on request (**QFE**)
Trans level: FL60
FL70 if pressure is less than 748mm (997.3 hPa)
FL80 if pressure is less than 721mm (961.3 hPa)
Trans alt (hgt): 4350' (**3974'**)
Crossings at airway exit points by ATC.

**OKREM 4A [OKRE4A]
RELTO 4A [RELT4A]
TIKBI 4A [TIKB4A]
RWY 30 ARRIVALS
BY ATC**



FOR RUSSIAN USERS ONLY



ALT/HEIGHT CONVERSION
QNH (**QFE**)
4350' (**3974' - 1200m**)
2020' (**1644' - 500m**)

**HOLDING OVER
RT LCTR**

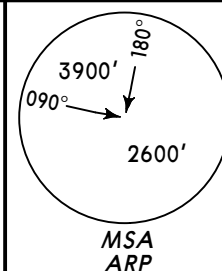


*ATIS
127.75X

Apt Elev
404'

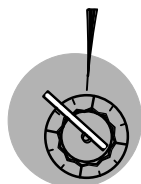
Alt Set: MM (hPa on request) QNH on request **(QFE)**
Trans level: FL60
FL70 if pressure is less than 748mm (997.3 hPa)
FL80 if pressure is less than 721mm (961.3 hPa)
Trans alt (hgt): 4350' **(3974')**
Crossings at airway exit points by ATC.

**OKREM 4B [OKRE4B]
RELTO 4B [RELT4B]
TIKBI 4B [TIKB4B]
RWY 30 ARRIVALS
BY ATC**



FOR RUSSIAN USERS ONLY

RAMENSKOYE
D (H) 117.9 RT
N55 32.6 E038 09.9



D5.7 RT
N55 28.9 E038 17.5
(RT R-120)

A+ 2020'
(1644')

D11.3 RT
N55 25.1 E038 24.9
(RT R-121)

D12.0 RT
N55 24.6 E038 25.7
(RT R-121)

D12.1 RT
N55 24.8 E038 26.2
(RT R-120)

OKREM 4B
N55 18.0 E038 41.9

RELTO 4B
N55 12.8 E039 42.8

TIKBI 4B
N54 43.2 E039 17.7

ALT/HEIGHT CONVERSION
QNH (QFE)
4350' (3974' - 1200m)
2020' (1644' - 500m)



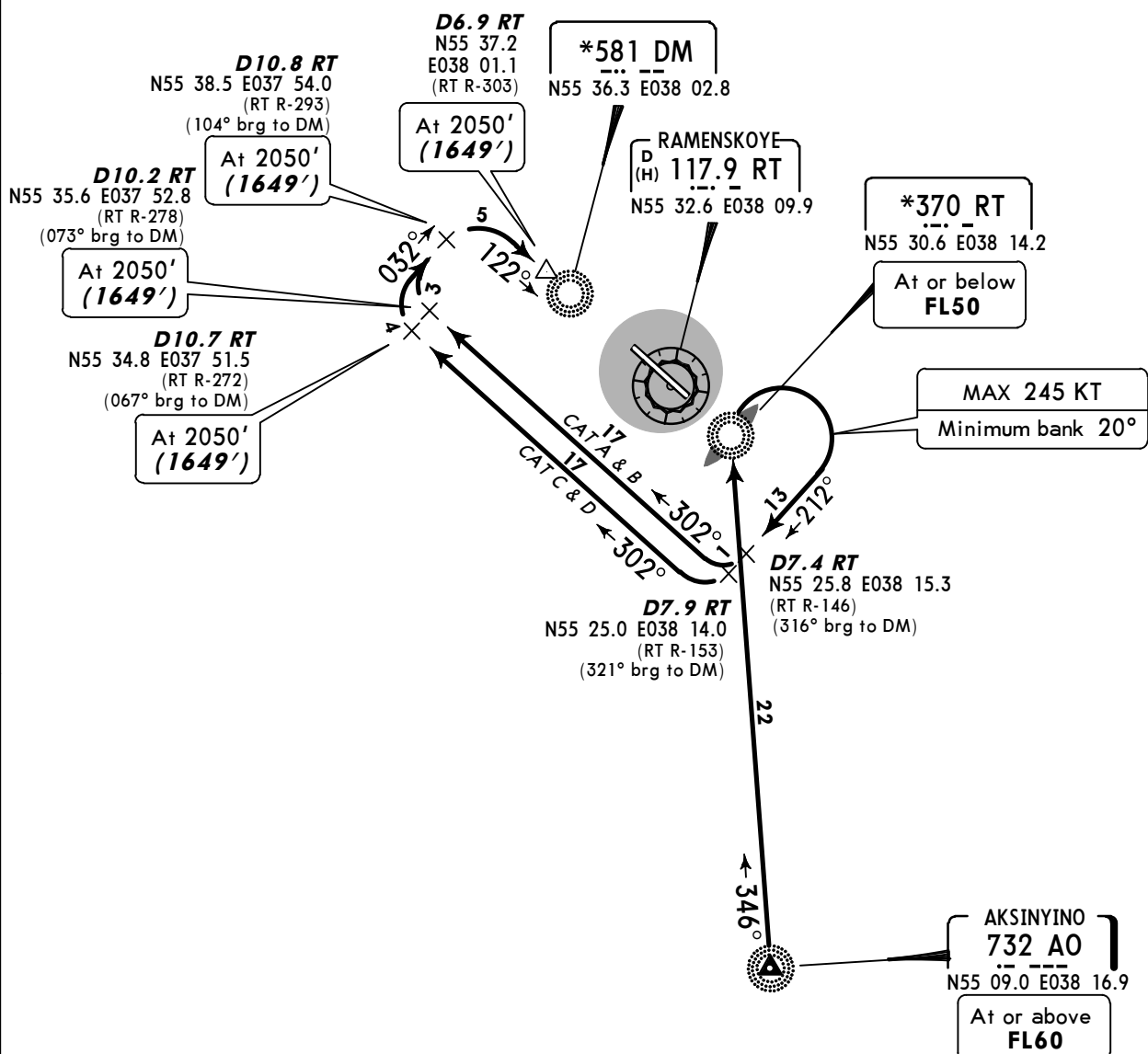
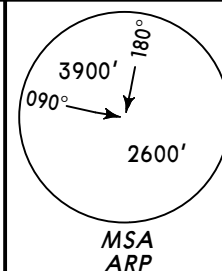
*ATIS
127.75X

Apt Elev
404'

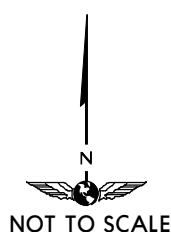
Alt Set: MM (hPa on request) QNH on request (QFE)
Trans level: FL60
FL70 if pressure is less than 748mm (997.3 hPa)
FL80 if pressure is less than 721mm (961.3 hPa)
Trans alt (hgt): 4350' (3949')
Crossings at airway exit points by ATC.

AO 2A RWY 12 ARRIVAL

FOR RUSSIAN USERS ONLY



ALT/HEIGHT CONVERSION
QNH (QFE)
4350' (3949' - 1200m)
2050' (1649' - 500m)



HOLDING OVER RT LCTR



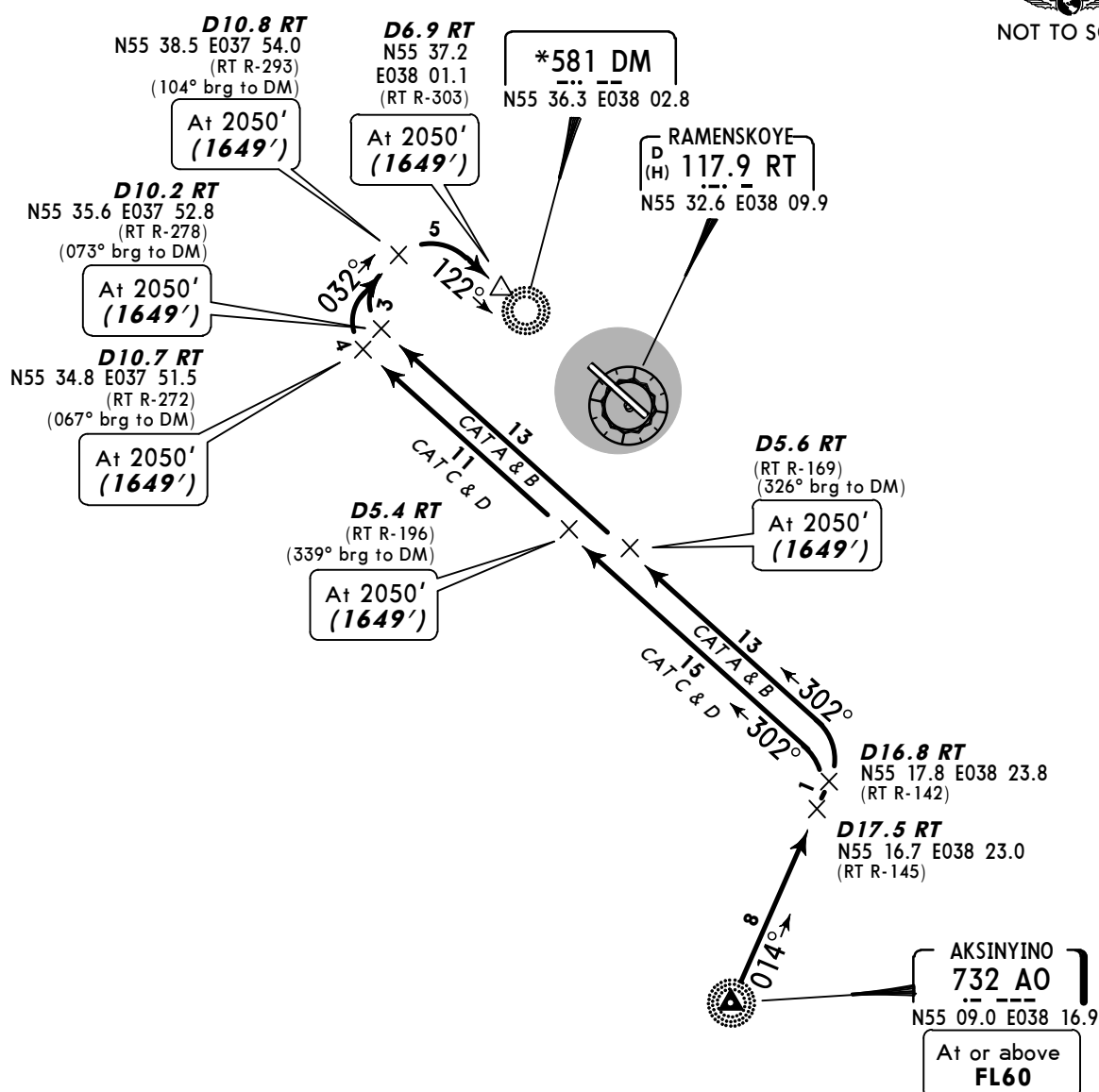
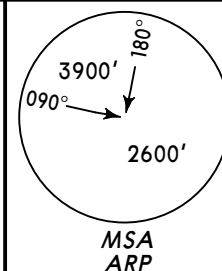
*ATIS
127.75X

Apt Elev
404'

Alt Set: MM (hPa on request) QNH on request **(QFE)**
Trans level: FL60
FL70 if pressure is less than 748mm (997.3 hPa)
FL80 if pressure is less than 721mm (961.3 hPa)
Trans alt (hgt): 4350' **(3949')**
Crossings at airway exit points by ATC.

AO 2B
RWY 12 ARRIVAL
BY ATC

FOR RUSSIAN USERS ONLY



ALT/HEIGHT CONVERSION
QNH **(QFE)**
4350' (3949' - 1200m)
2050' (1649' - 500m)

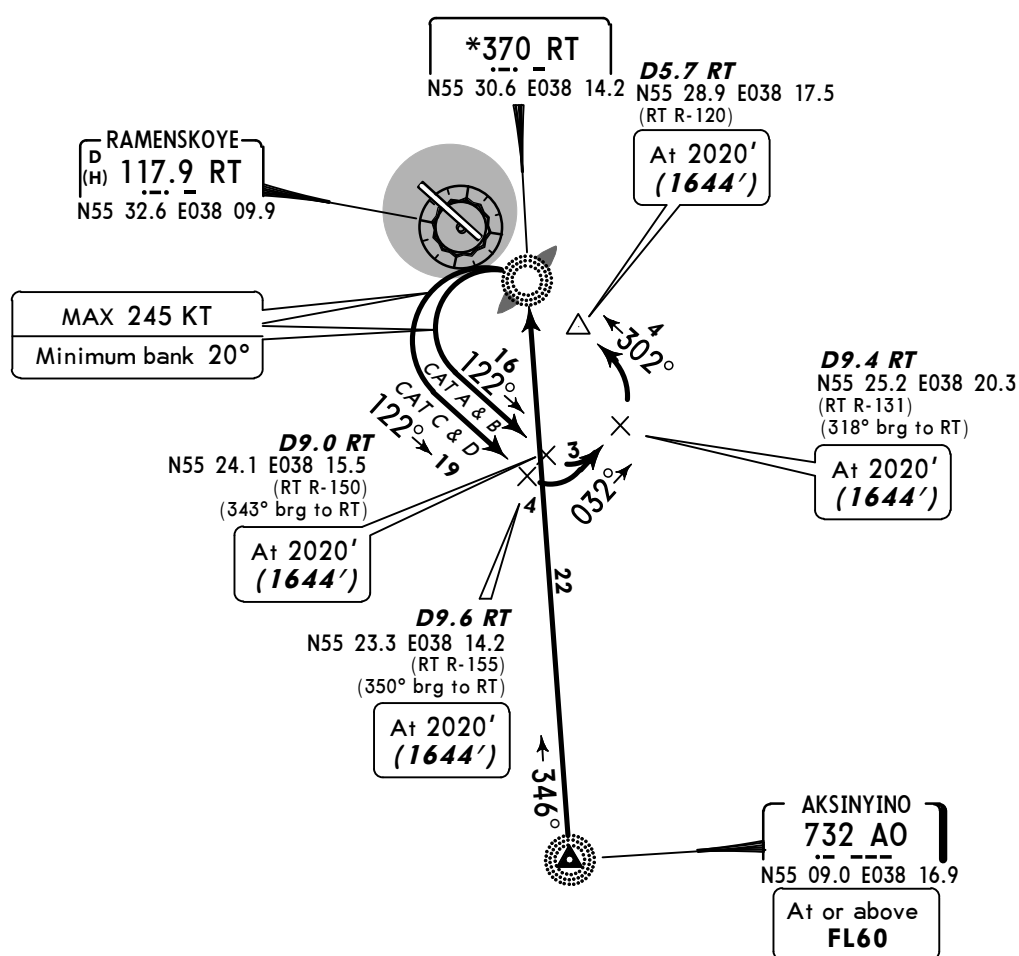
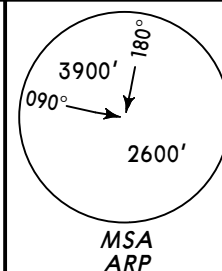
*ATIS
127.75X

Apt Elev
404'

Alt Set: MM (hPa on request) QNH on request (QFE)
Trans level: FL60
FL70 if pressure is less than 748mm (997.3 hPa)
FL80 if pressure is less than 721mm (961.3 hPa)
Trans alt (hgt): 4350' (3974')
Crossings at airway exit points by ATC.

AO 4A RWY 30 ARRIVAL

FOR RUSSIAN USERS ONLY



ALT/HEIGHT CONVERSION
QNH (QFE)
4350' (3974' - 1200m)
2020' (1644' - 500m)

HOLDING OVER
RT LCTR



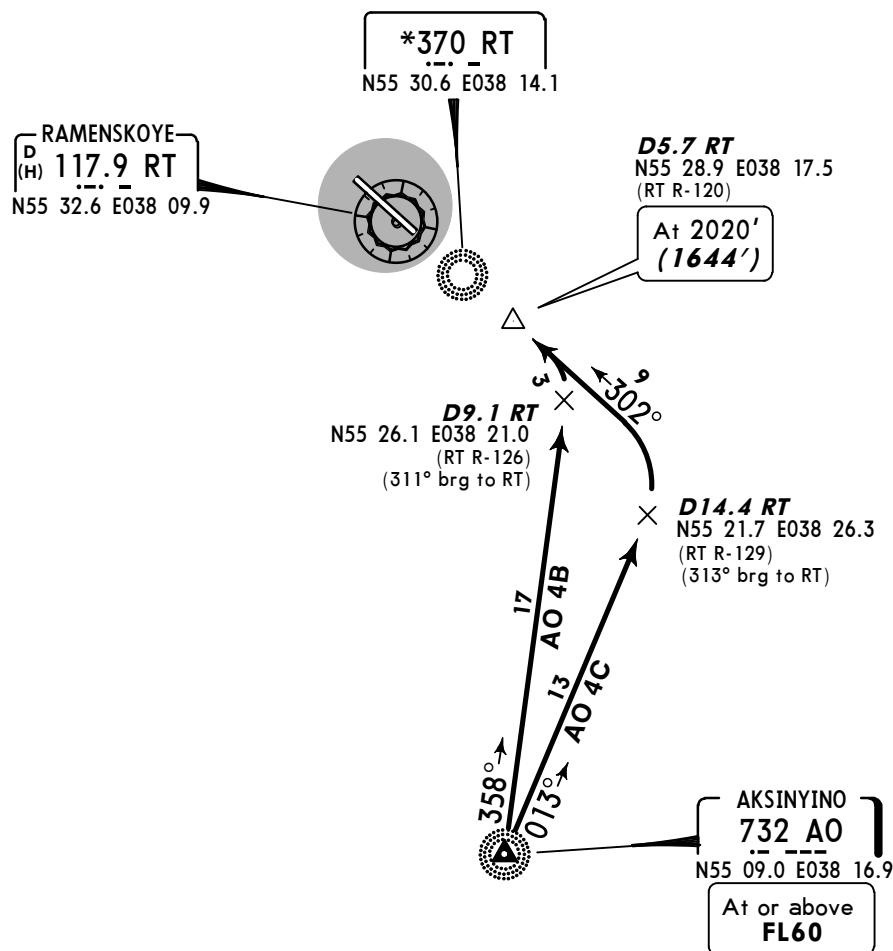
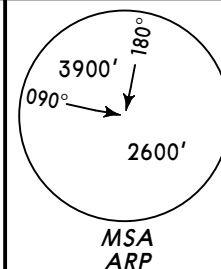
*ATIS
127.75X

Apt Elev
404'

Alt Set: MM (hPa on request) QNH on request (**QFE**)
Trans level: FL60
FL70 if pressure is less than 748mm (997.3 hPa)
FL80 if pressure is less than 721mm (961.3 hPa)
Trans alt (hgt): 4350' (**3974'**)
Crossings at airway exit points by ATC.

AO 4B, AO 4C
RWY 30 ARRIVALS
BY ATC

FOR RUSSIAN USERS ONLY



ALT/HEIGHT CONVERSION
QNH (**QFE**)
4350' (3974' - 1200m)
2020' (1644' - 500m)



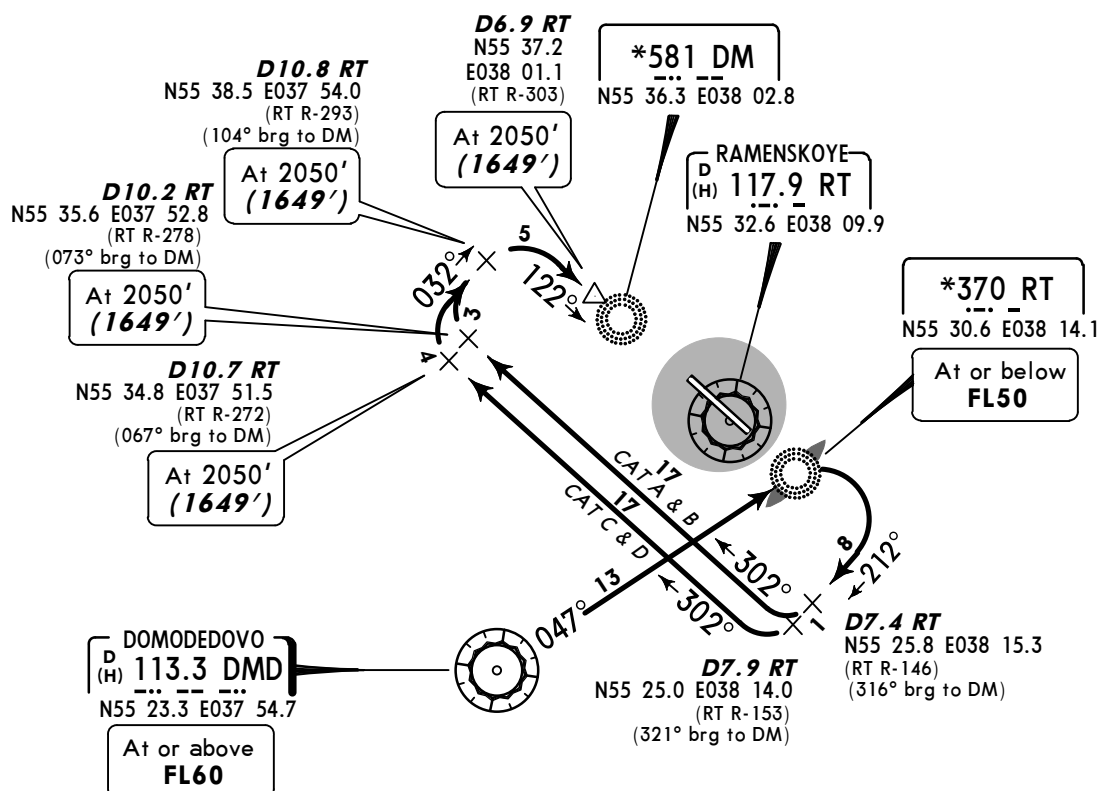
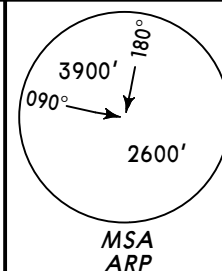
*ATIS
127.75X

Apt Elev
404'

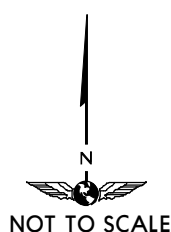
Alt Set: MM (hPa on request) QNH on request (**QFE**)
Trans level: FL60
FL70 if pressure is less than 748mm (997.3 hPa)
FL80 if pressure is less than 721mm (961.3 hPa)
Trans alt (hgt): 4350' (**3949'**)
Crossings at airway exit points by ATC.

DMD 2A RWY 12 ARRIVAL

FOR RUSSIAN USERS ONLY



ALT/HEIGHT CONVERSION
QNH (**QFE**)
4350' (**3949'** - 1200m)
2050' (**1649'** - 500m)



**HOLDING OVER
RT LCTR**



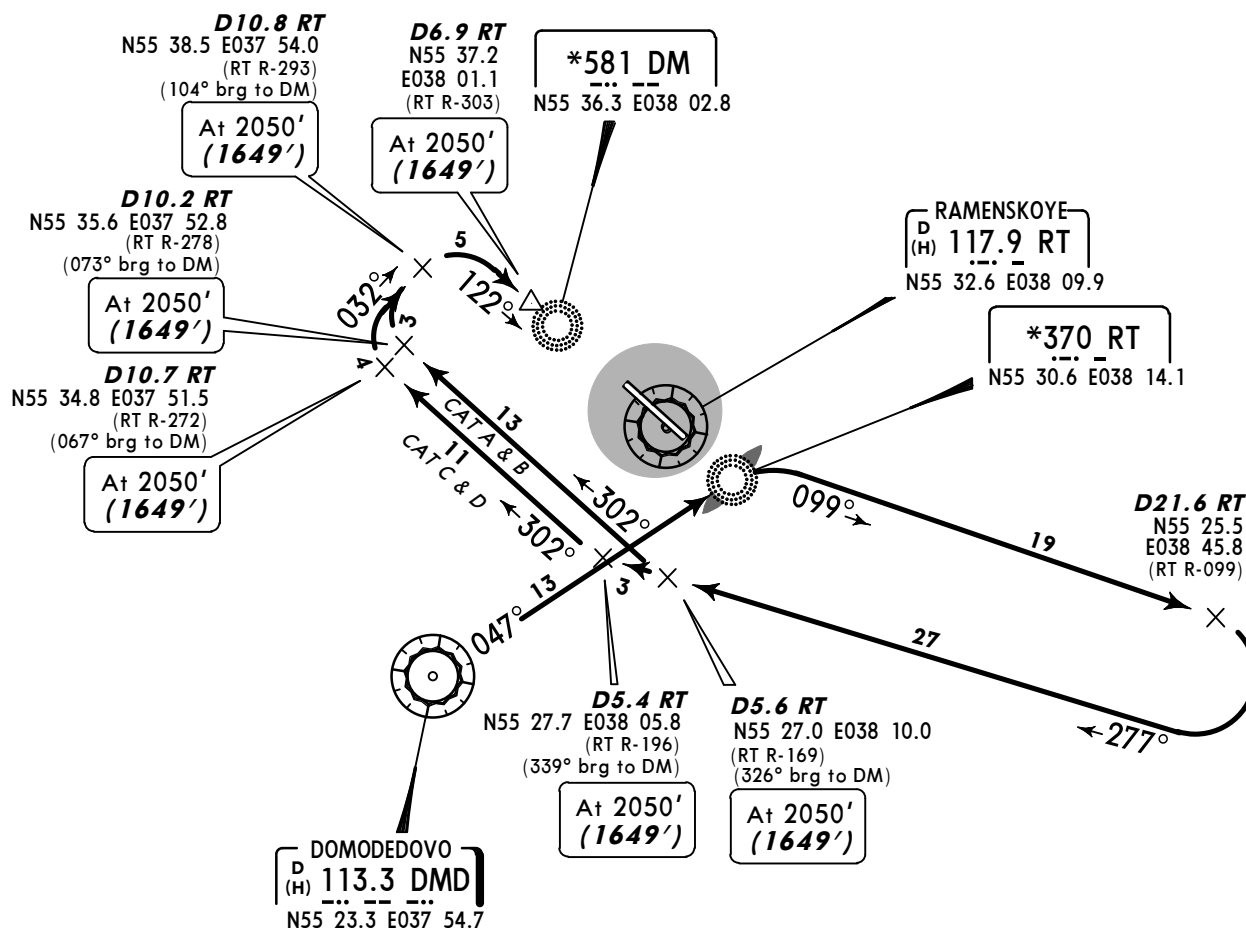
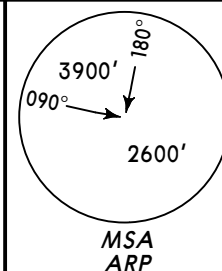
*ATIS
127.75X

Apt Elev
404'

Alt Set: MM (hPa on request) QNH on request (QFE)
Trans level: FL60
FL70 if pressure is less than 748mm (997.3 hPa)
FL80 if pressure is less than 721mm (961.3 hPa)
Trans alt (hgt): 4350' (3949')
Crossings at airway exit points by ATC.

DMD 2B
RWY 12 ARRIVAL
BY ATC

FOR RUSSIAN USERS ONLY



ALT/HEIGHT CONVERSION
QNH (QFE)
4350' (3949' - 1200m)
2050' (1649' - 500m)



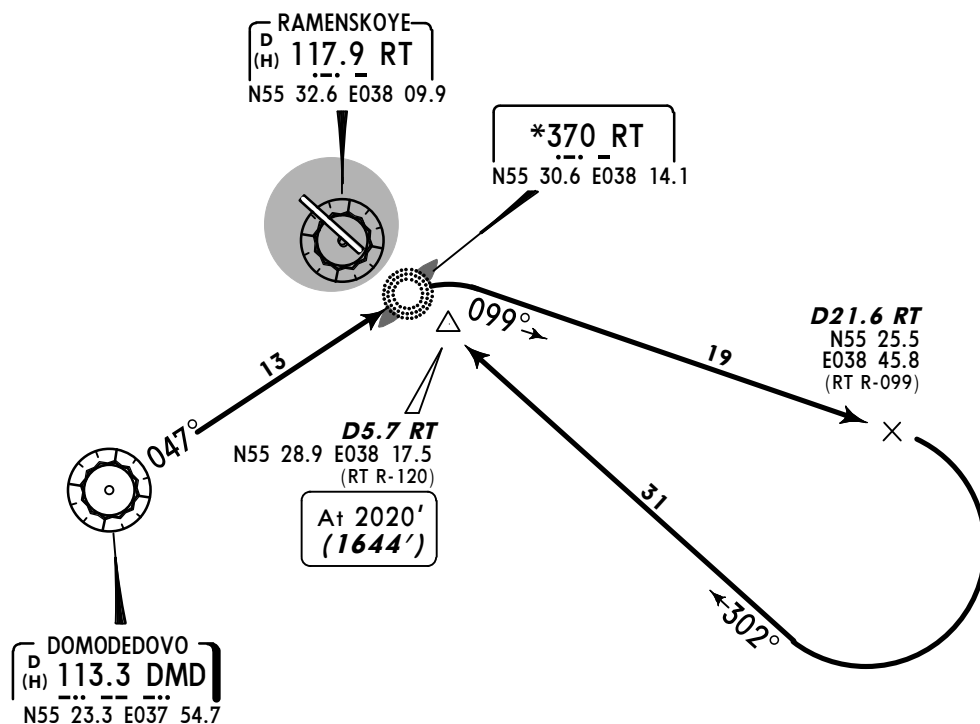
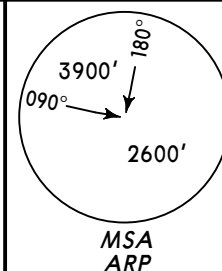
*ATIS
127.75X

Apt Elev
404'

Alt Set: MM (hPa on request) QNH on request (QFE)
Trans level: FL60
FL70 if pressure is less than 748mm (997.3 hPa)
FL80 if pressure is less than 721mm (961.3 hPa)
Trans alt (hgt): 4350' (3974')
Crossings at airway exit points by ATC.

DMD 4A
RWY 30 ARRIVAL

FOR RUSSIAN USERS ONLY



HOLDING OVER
RT LCTR



ALT/HEIGHT CONVERSION
QNH (QFE)
4350' (3974' - 1200m)
2020' (1644' - 500m)

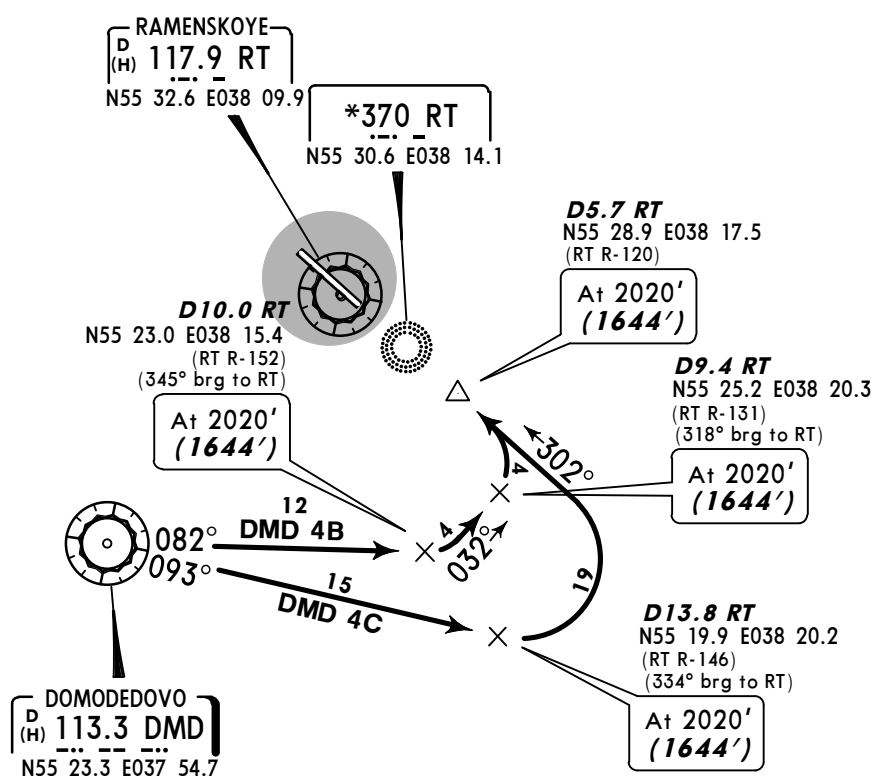
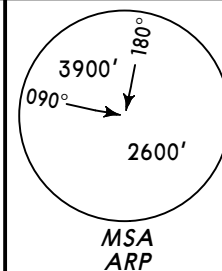
*ATIS
127.75X

Apt Elev
404'

Alt Set: MM (hPa on request) QNH on request (**QFE**)
Trans level: FL60
FL70 if pressure is less than 748mm (997.3 hPa)
FL80 if pressure is less than 721mm (961.3 hPa)
Trans alt (hgt): 4350' (**3974'**)
Crossings at airway exit points by ATC.

DMD 4B, DMD 4C
RWY 30 ARRIVALS
BY ATC

FOR RUSSIAN USERS ONLY



ALT/HEIGHT CONVERSION
QNH (**QFE**)
4350' (**3974' - 1200m**)
2020' (**1644' - 500m**)



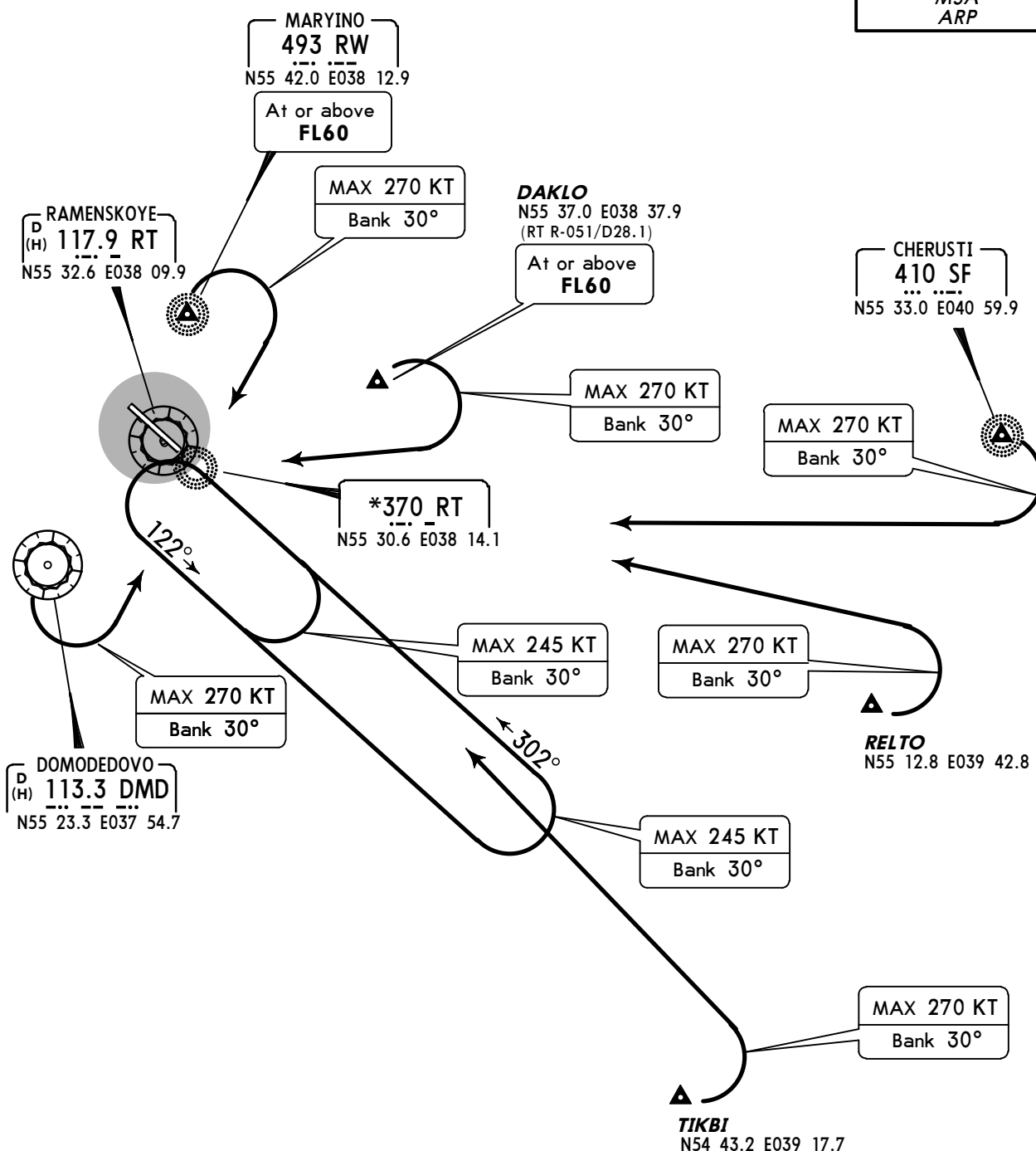
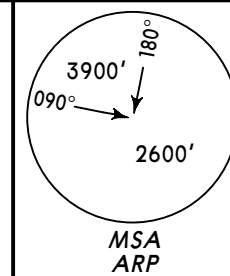
*ATIS
127.75X

Apt Elev
404'

Alt Set: MM (hPa on request) QNH on request (**QFE**)
Trans level: FL60
FL70 if pressure is less than 748mm (997.3 hPa)
FL80 if pressure is less than 721mm (961.3 hPa)
Trans alt (hgt): 4350' (**3946'**)
Crossings at airway exit points by ATC.

LOST COMMS PROCEDURES AFTER TAKE-OFF

FOR RUSSIAN USERS ONLY



ALT/HEIGHT CONVERSION
QNH (**QFE**)
4350' (**3946' - 1200m**)

Apt Elev
404'

QNH on request (QFE)

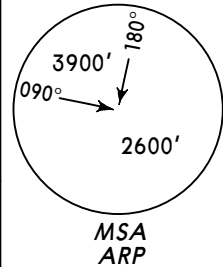
Trans level: FL60

FL70 if pressure is less than 748mm (997.3 hPa)

FL80 if pressure is less than 721mm (961.3 hPa)

Trans alt (hgt): 4350' (3949')

Crossings at airway entry points by ATC.

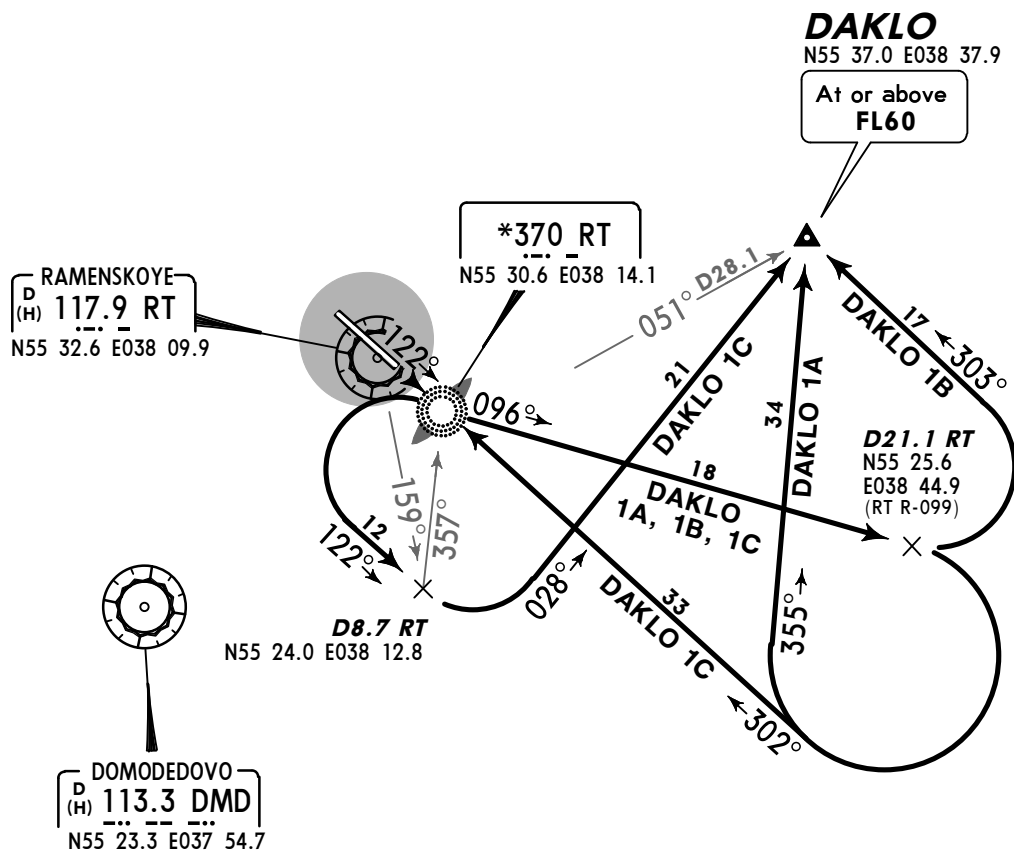


DAKLO 1A [DAKL1A]

DAKLO 1B [DAKL1B], DAKLO 1C [DAKL1C]
BY ATC

RWY 12 DEPARTURES

FOR RUSSIAN USERS ONLY



ALT/HEIGHT CONVERSION
QNH (QFE)
4350' (3949' - 1200m)

Apt Elev
404'

QNH on request (QFE)

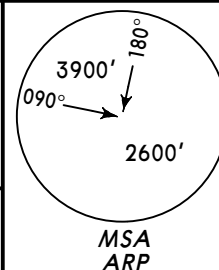
Trans level: FL60

FL70 if pressure is less than 748mm (997.3 hPa)

FL80 if pressure is less than 721mm (961.3 hPa)

Trans alt (hgt): 4350' (**3974'**)

Crossings at airway entry points by ATC.

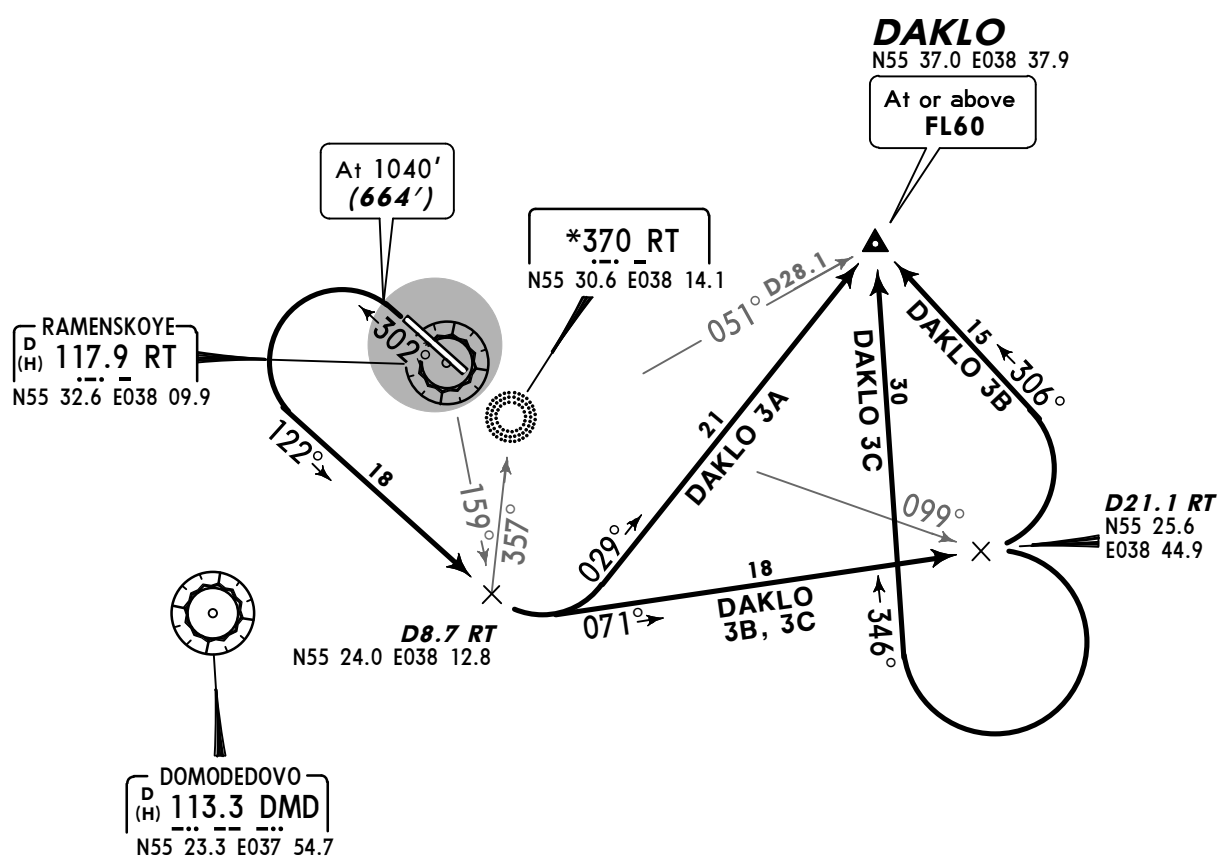


DAKLO 3A [DAKL3A]

DAKLO 3B [DAKL3B], DAKLO 3C [DAKL3C]
BY ATC

RWY 30 DEPARTURES

FOR RUSSIAN USERS ONLY



NOT TO SCALE

ALT/HEIGHT CONVERSION

QNH (QFE)

1040' (664' - 200m)

4350' (3974' - 1200m)

Apt Elev
404'

QNH on request (QFE)

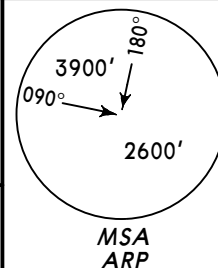
Trans level: FL60

FL70 if pressure is less than 748mm (997.3 hPa)

FL80 if pressure is less than 721mm (961.3 hPa)

Trans alt (hgt): 4350' (3949')

Crossings at airway entry points by ATC.

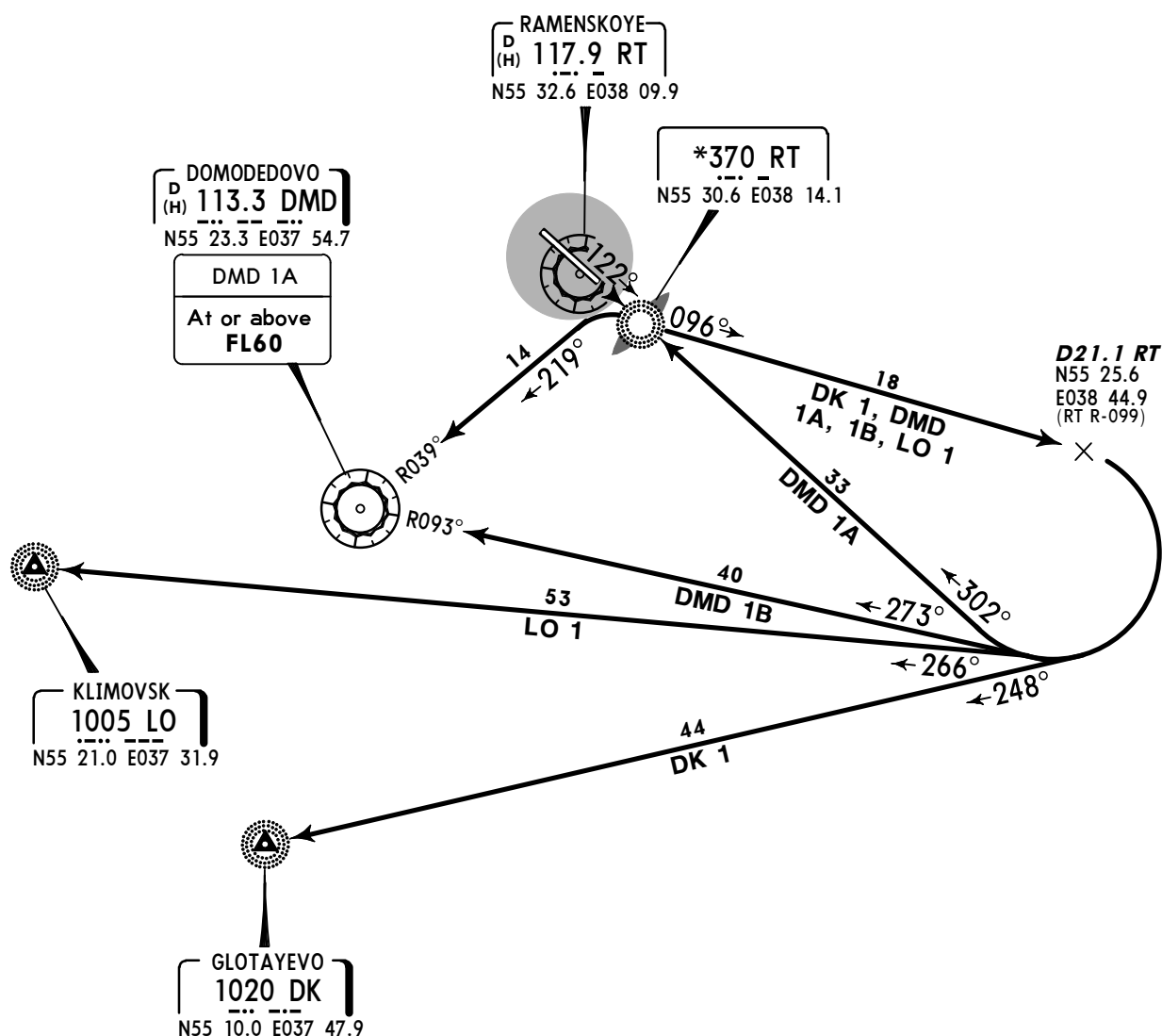


DMD 1A

DK 1, DMD 1B, LO 1
BY ATC

RWY 12 DEPARTURES

FOR RUSSIAN USERS ONLY



ALT/HEIGHT CONVERSION
QNH (QFE)
4350' (3949' - 1200m)

Apt Elev
404'

QNH on request (QFE)

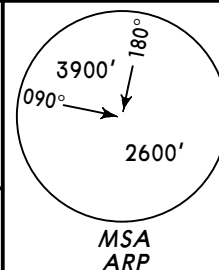
Trans level: FL60

FL70 if pressure is less than 748mm (997.3 hPa)

FL80 if pressure is less than 721mm (961.3 hPa)

Trans alt (hgt): 4350' (3974')

Crossings at airway entry points by ATC.

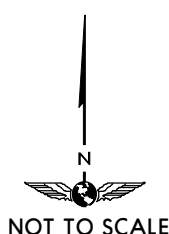
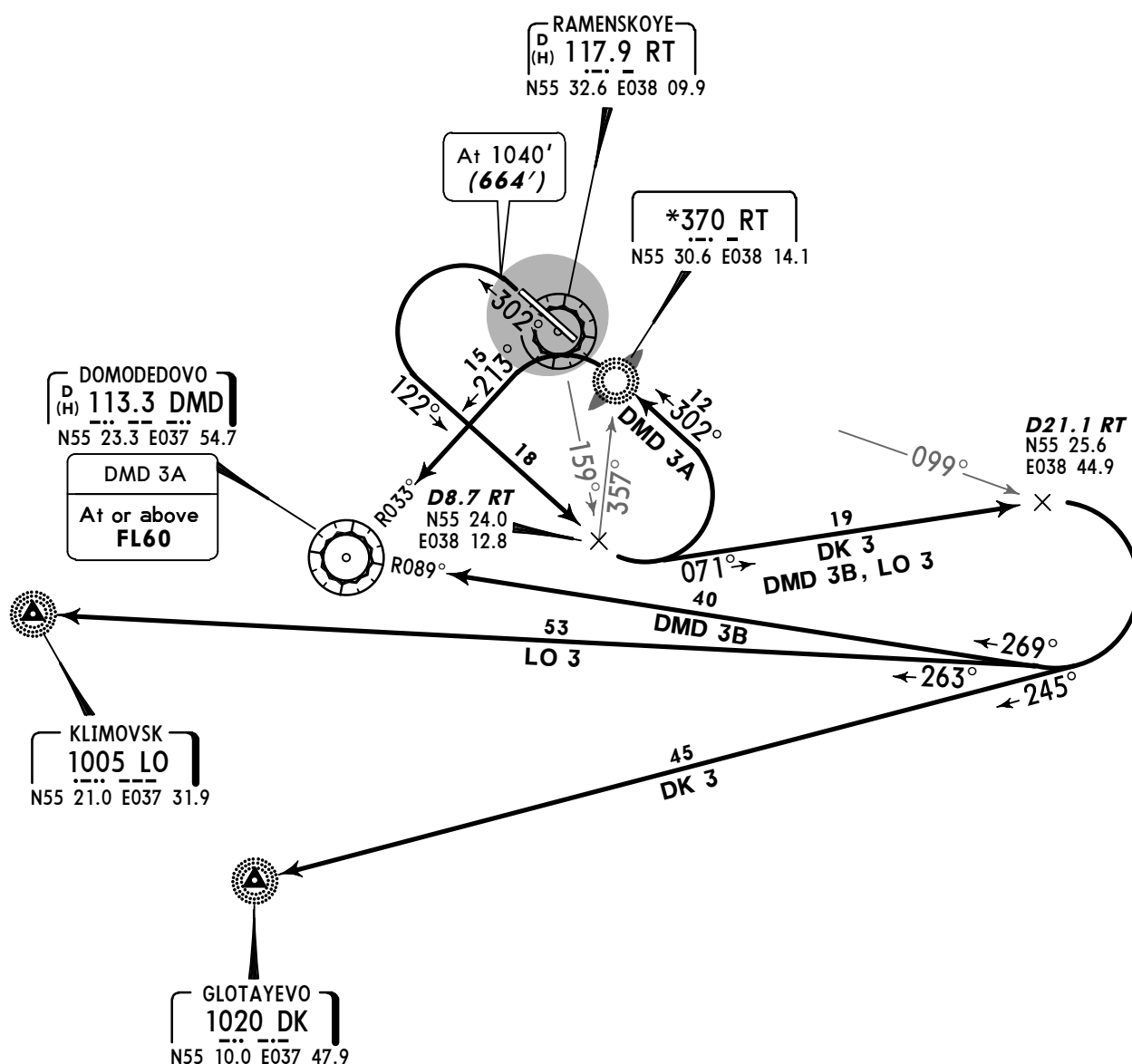


DMD 3A

DK 3, DMD 3B, LO 3
BY ATC

RWY 30 DEPARTURES

FOR RUSSIAN USERS ONLY



ALT/HEIGHT CONVERSION	
QNH	(QFE)
1040'	(664' - 200m)
4350'	(3974' - 1200m)

Apt Elev
404'

QNH on request (QFE)

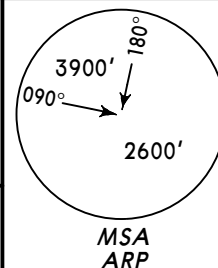
Trans level: FL60

FL70 if pressure is less than 748mm (997.3 hPa)

FL80 if pressure is less than 721mm (961.3 hPa)

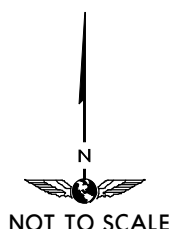
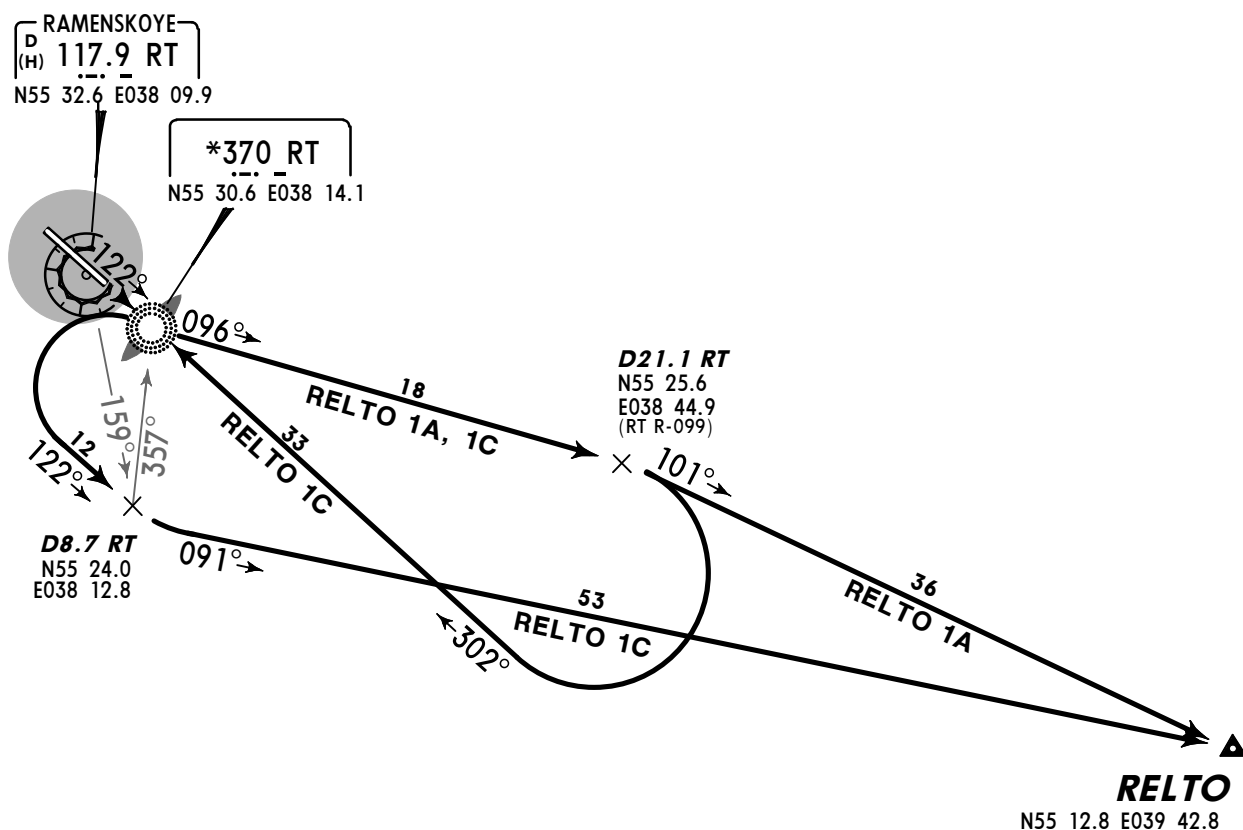
Trans alt (hgt): 4350' (3949')

Crossings at airway entry points by ATC.



RELTO 1A [RELTO 1A]
RELTO 1C [RELTO 1C]
RWY 12 DEPARTURES
BY ATC

FOR RUSSIAN USERS ONLY



ALT/HEIGHT CONVERSION
QNH (QFE)
4350' (3949' - 1200m)

Apt Elev
404'

QNH on request (QFE)

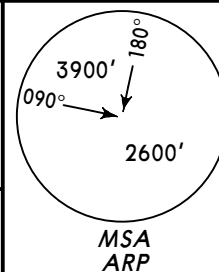
Trans level: FL60

FL70 if pressure is less than 748mm (997.3 hPa)

FL80 if pressure is less than 721mm (961.3 hPa)

Trans alt (hgt): 4350' (3974')

Crossings at airway entry points by ATC.



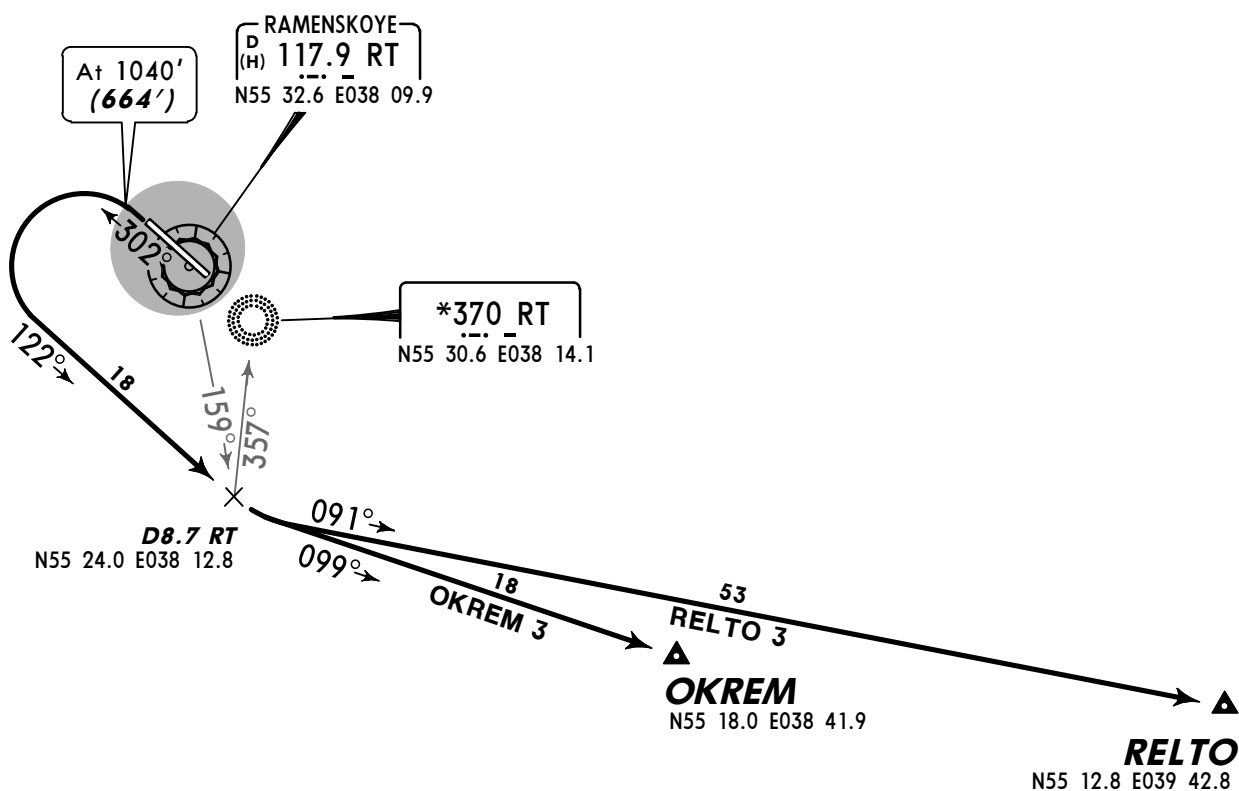
OKREM 3

BY ATC

RELTO 3

RWY 30 DEPARTURES

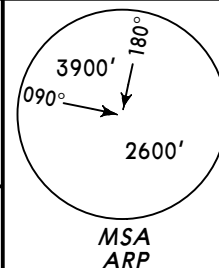
FOR RUSSIAN USERS ONLY



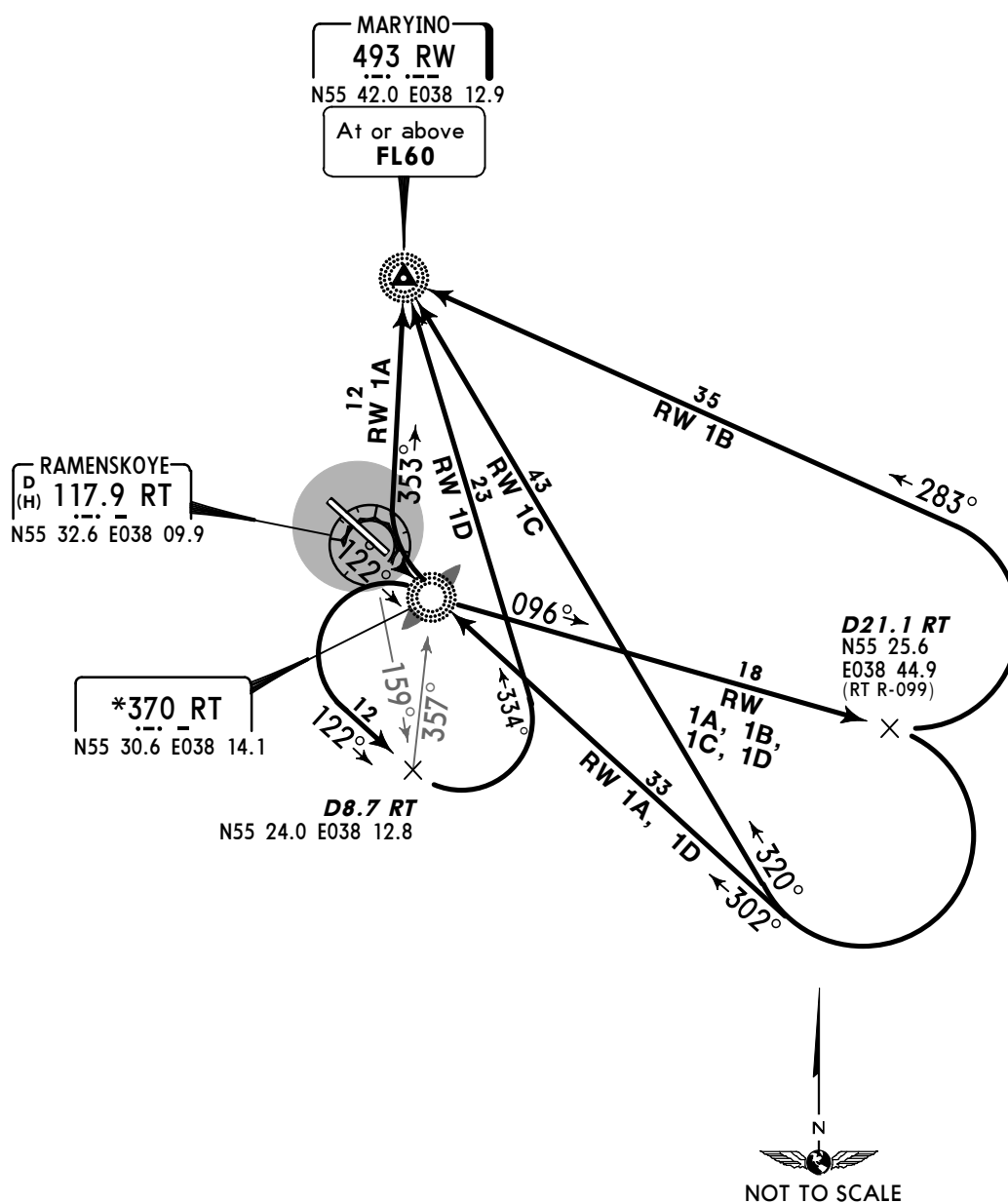
ALT/HEIGHT CONVERSION
QNH (QFE)
1040' (664' - 200m)
4350' (3974' - 1200m)



Crossings at airway entry points by ATC.



FOR RUSSIAN USERS ONLY



4350' (3949' - 1200m)

Apt Elev
404'

QNH on request (QFE)

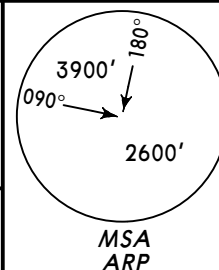
Trans level: FL60

FL70 if pressure is less than 748mm (997.3 hPa)

FL80 if pressure is less than 721mm (961.3 hPa)

Trans alt (hgt): 4350' (3974')

Crossings at airway entry points by ATC.

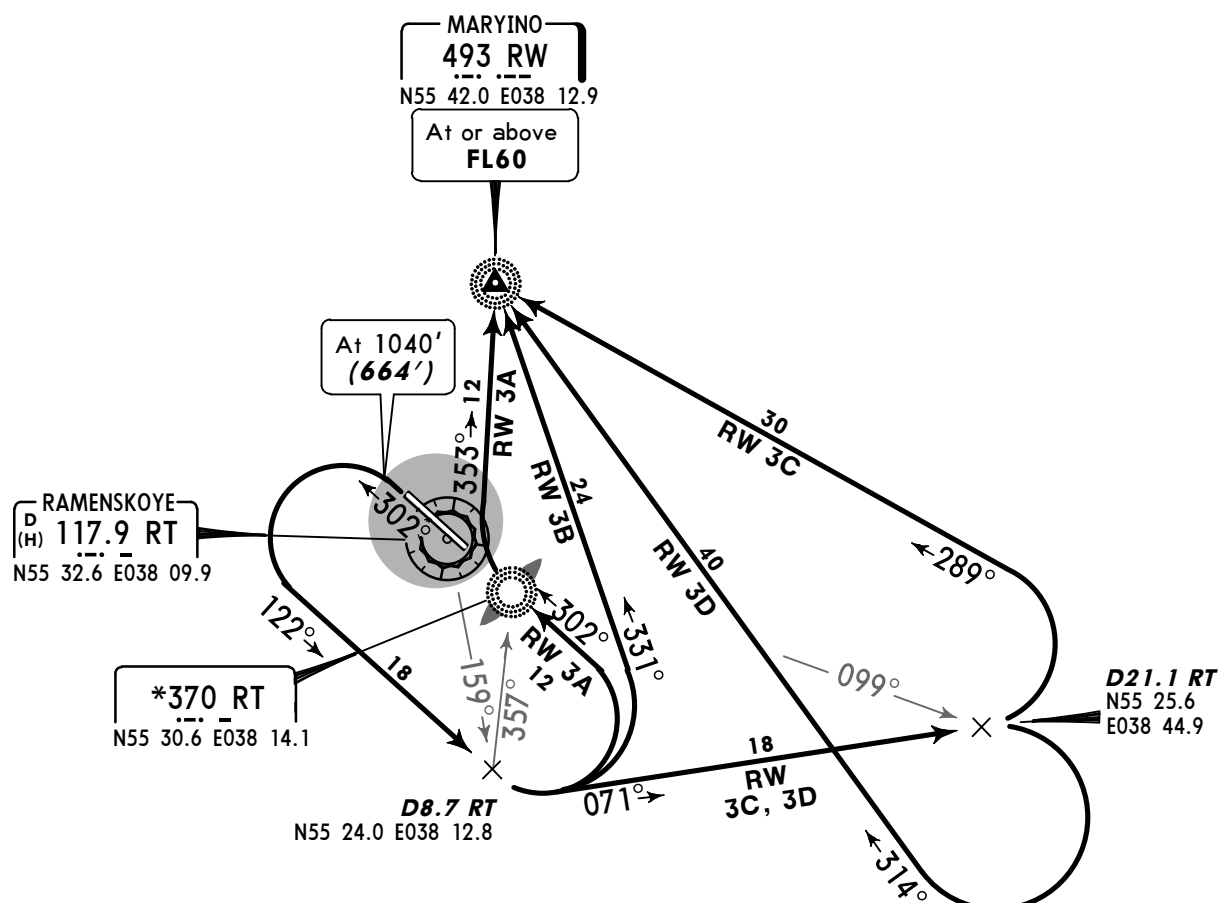


RW 3A

RW 3B, RW 3C, RW 3D
BY ATC

RWY 30 DEPARTURES

FOR RUSSIAN USERS ONLY



ALT/HEIGHT CONVERSION
QNH (QFE)
1040' (664' - 200m)
4350' (3974' - 1200m)

Apt Elev
404'

QNH on request (QFE)

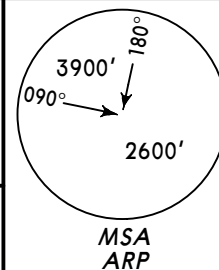
Trans level: FL60

FL70 if pressure is less than 748mm (997.3 hPa)

FL80 if pressure is less than 721mm (961.3 hPa)

Trans alt (hgt): 4350' (3949')

Crossings at airway entry points by ATC.



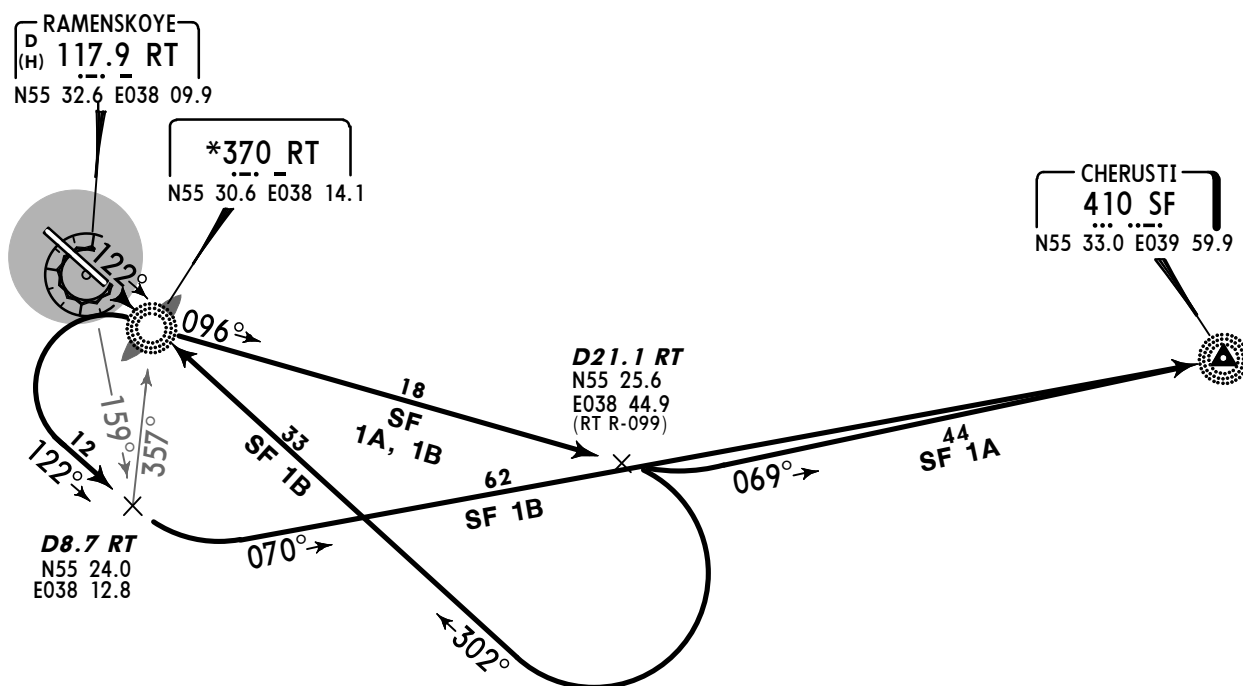
SF 1A

SF 1B

BY ATC

RWY 12 DEPARTURES

FOR RUSSIAN USERS ONLY



ALT/HEIGHT CONVERSION
QNH (QFE)
4350' (3949' - 1200m)

Apt Elev
404'

QNH on request (QFE)

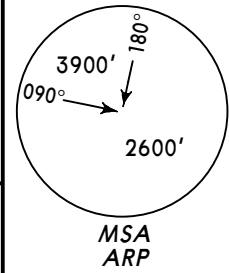
Trans level: FL60

FL70 if pressure is less than 748mm (997.3 hPa)

FL80 if pressure is less than 721mm (961.3 hPa)

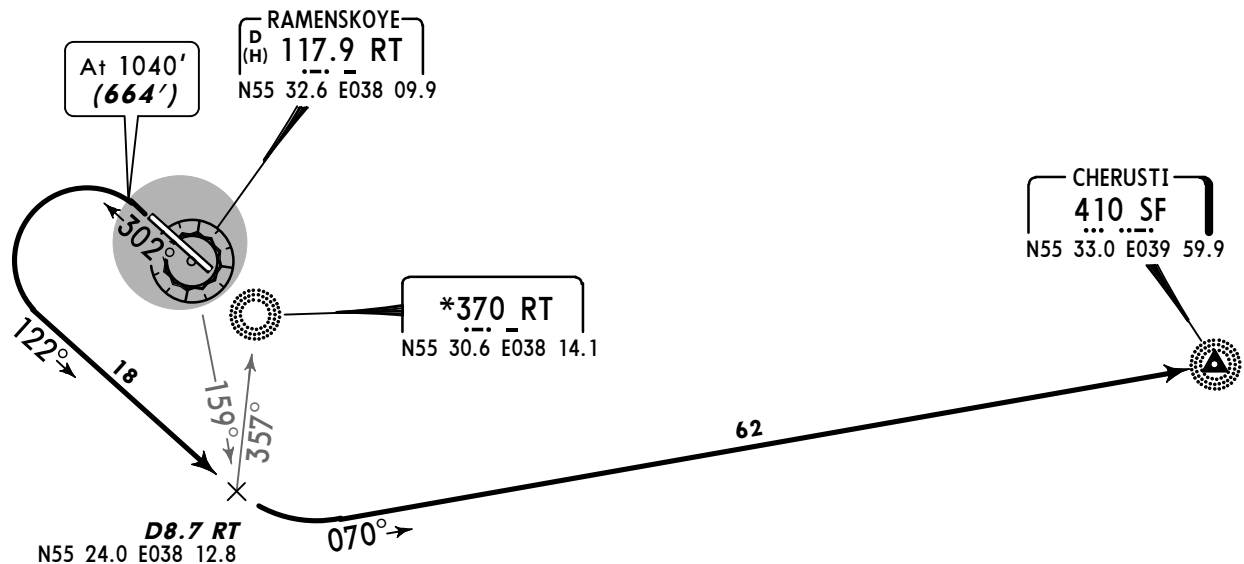
Trans alt (hgt): 4350' (3974')

Crossings at airway entry points by ATC.



SF 3 RWY 30 DEPARTURE

FOR RUSSIAN USERS ONLY



ALT/HEIGHT CONVERSION	
QNH	(QFE)
1040'	(664' - 200m)
4350'	(3974' - 1200m)

Apt Elev
404'

QNH on request (QFE)

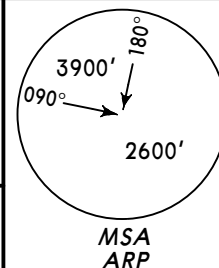
Trans level: FL60

FL70 if pressure is less than 748mm (997.3 hPa)

FL80 if pressure is less than 721mm (961.3 hPa)

Trans alt (hgt): 4350' (3949')

Crossings at airway entry points by ATC.



TIKBI 1A [TIKB1A]
TIKBI 1B [TIKB1B]
RWY 12 DEPARTURES
BY ATC

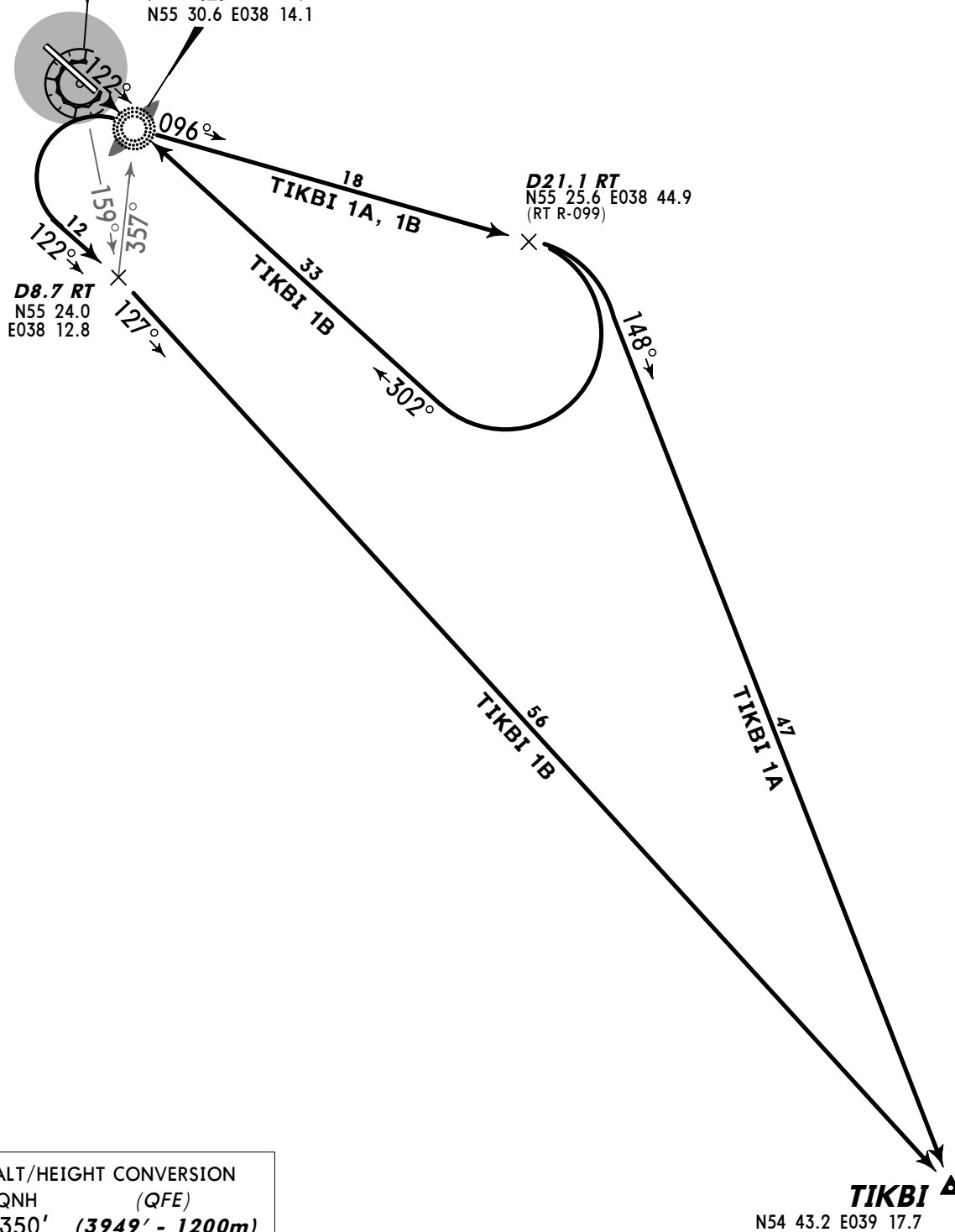
FOR RUSSIAN USERS ONLY

RAMENSKOYE
D (H) 117.9 RT
N55 32.6 E038 09.9

*370 RT
N55 30.6 E038 14.1

D8.7 RT
N55 24.0 E038 12.8

D21.1 RT
N55 25.6 E038 44.9
(RT R-099)



ALT/HEIGHT CONVERSION
QNH (QFE)
4350' (3949' - 1200m)

Apt Elev
404'

QNH on request (QFE)

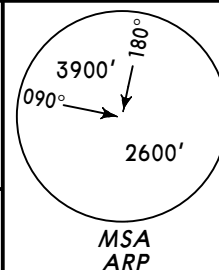
Trans level: FL60

FL70 if pressure is less than 748mm (997.3 hPa)

FL80 if pressure is less than 721mm (961.3 hPa)

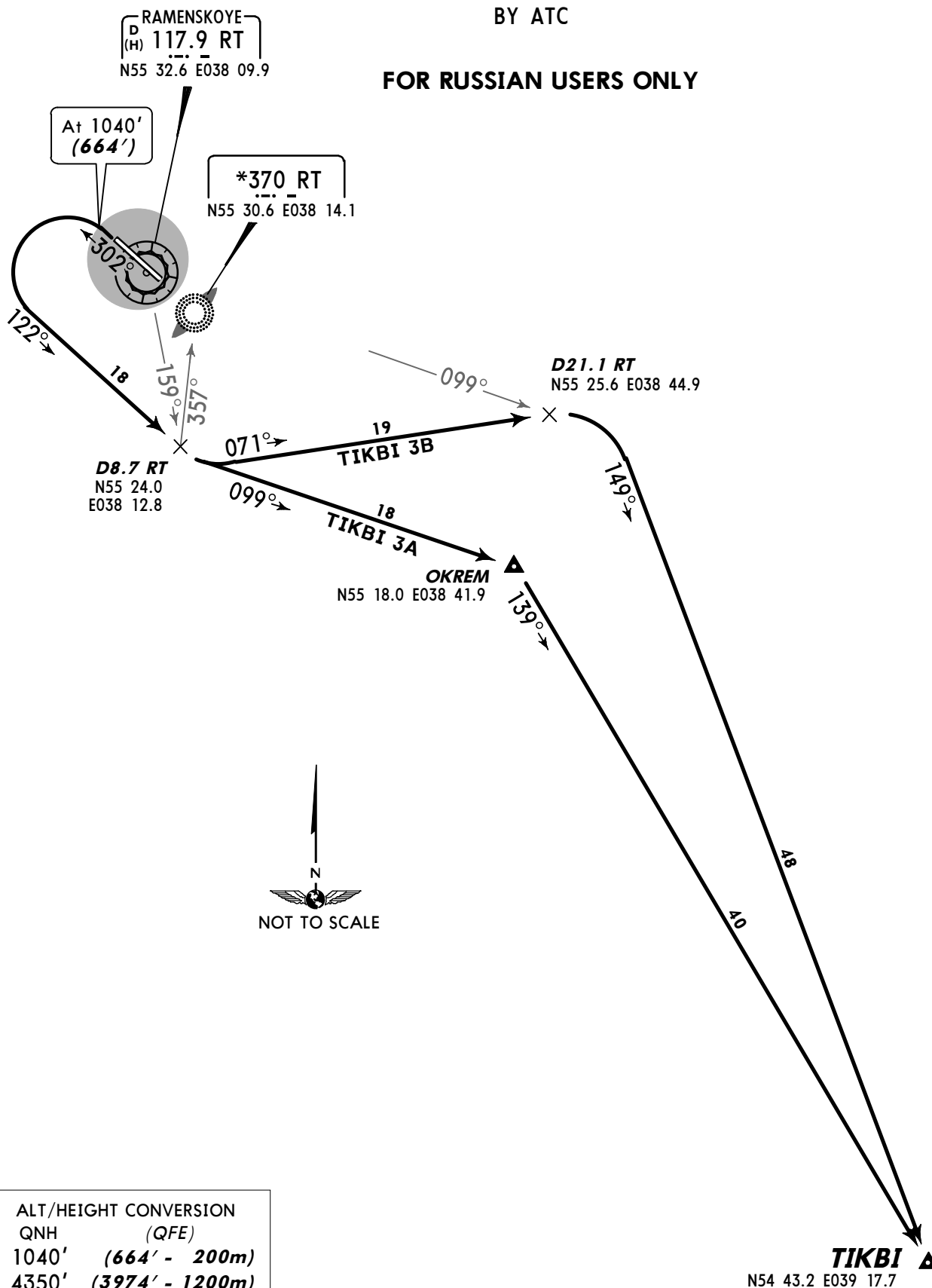
Trans alt (hgt): 4350' (3974')

Crossings at airway entry points by ATC.



TIKBI 3A [TIKB3A]
TIKBI 3B [TIKB3B]
RWY 30 DEPARTURES
BY ATC

FOR RUSSIAN USERS ONLY



Apt Elev
404'

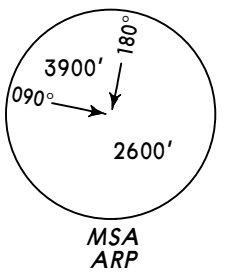
QNH on request (QFE)

Trans level: FL60

FL70 if pressure is less than 748mm (997.3 hPa)

FL80 if pressure is less than 721mm (961.3 hPa)

Trans alt (hgt): 4350' (3946')



NERL
900 NE
N57 02.0 E037 59.9

NE 1R
FROM RW

NE 3R
FROM DMD

SF 1R
FROM DAKLO

TRANSITIONS

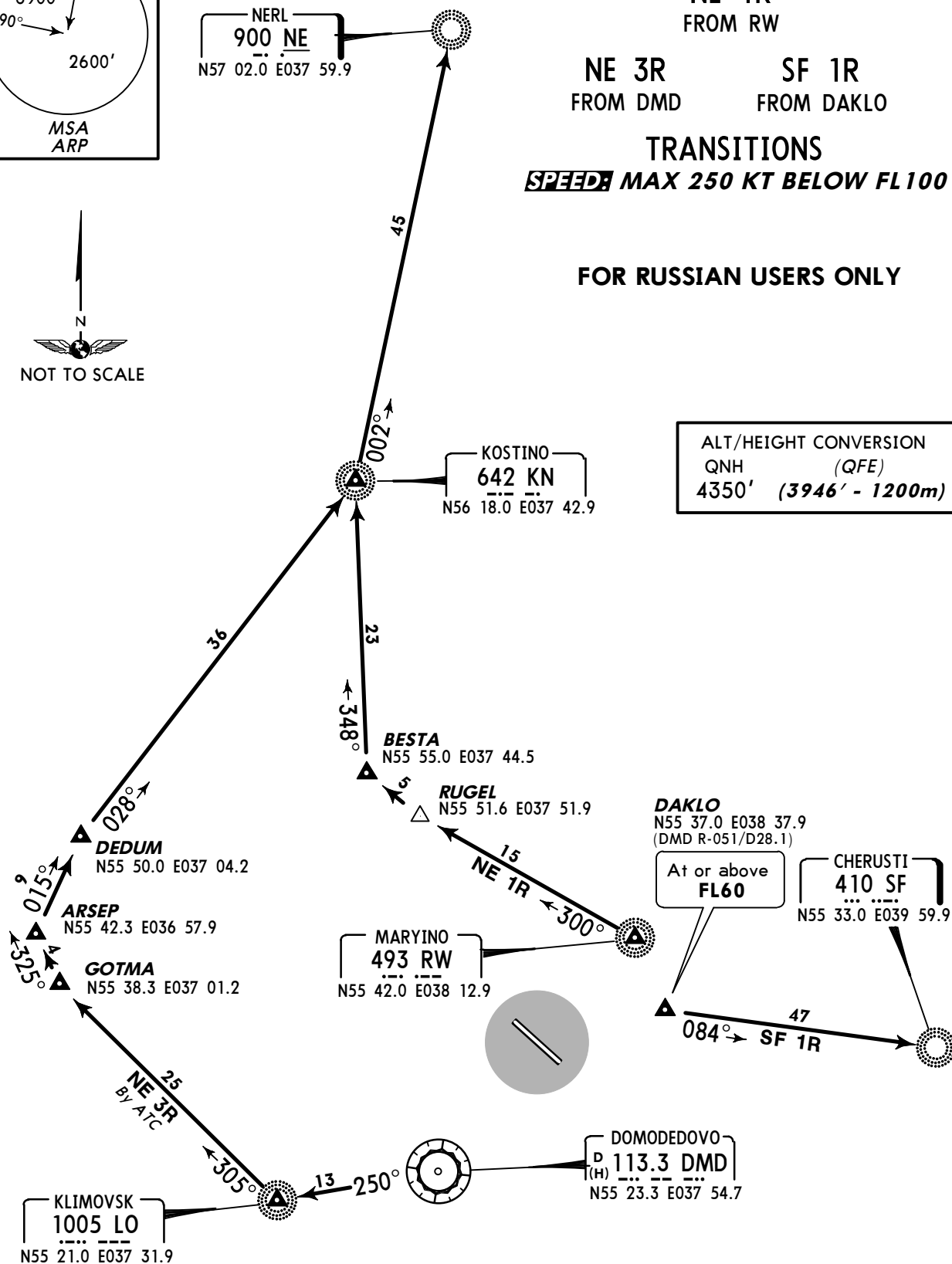
SPEED MAX 250 KT BELOW FL100

FOR RUSSIAN USERS ONLY

ALT/HEIGHT CONVERSION

QNH (QFE)

4350' (3946' - 1200m)



TRANSITION

ROUTING

NE 1R

From RW to RUGEL, then to BESTA, then to KN, then to NE.

NE 3R

From DMD to LO, then to GOTMA, then to ARSEP, then to DEDUM, then to KN, then to NE.

SF 1R

From DAKLO to SF.

Apt Elev
404'

QNH on request (QFE)

Trans level: FL60

FL70 if pressure is less than 748mm (997.3 hPa)

FL80 if pressure is less than 721mm (961.3 hPa)

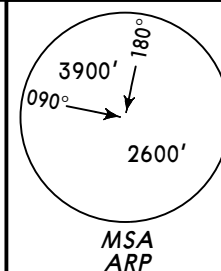
Trans alt (hgt): 4350' (3946')

FV 1R
FROM DMD

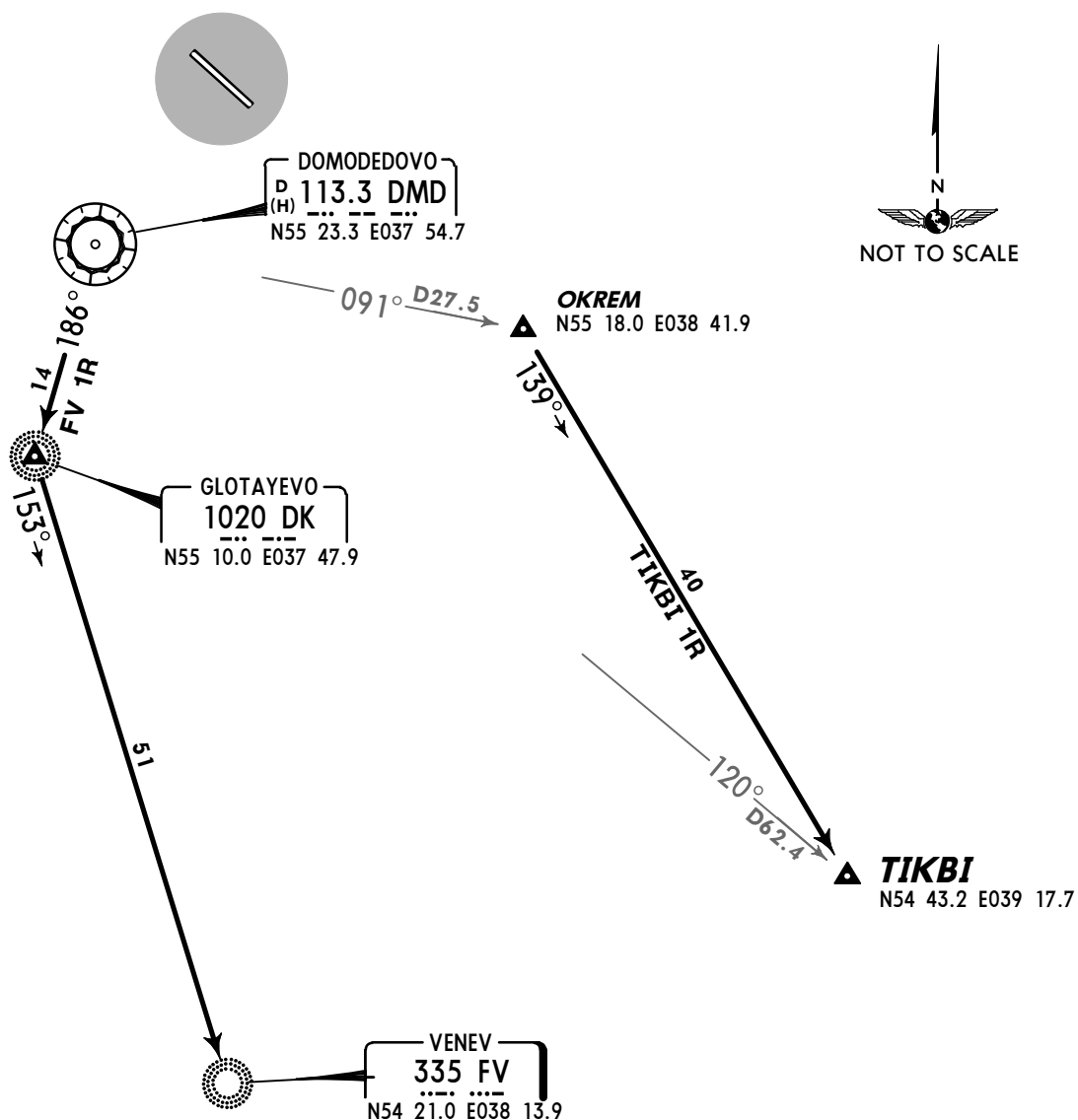
TIKBI 1R [TIK1R]
FROM OKREM

TRANSITIONS

~~SPEED~~ MAX 250 KT BELOW FL100



FOR RUSSIAN USERS ONLY



ALT/HEIGHT CONVERSION
QNH (QFE)
4350' (3946' - 1200m)

TRANSITION	ROUTING
FV 1R	From DMD to DK, then to FV.
TIKBI 1R	From OKREM to TIKBI.

Apt Elev
404'

QNH on request (QFE)

Trans level: FL60

FL70 if pressure is less than 748mm (997.3 hPa)

FL80 if pressure is less than 721mm (961.3 hPa)

Trans alt (hgt): 4350' (**3946'**)

IP 1R

KULEG 1R [*KUL 1R*]

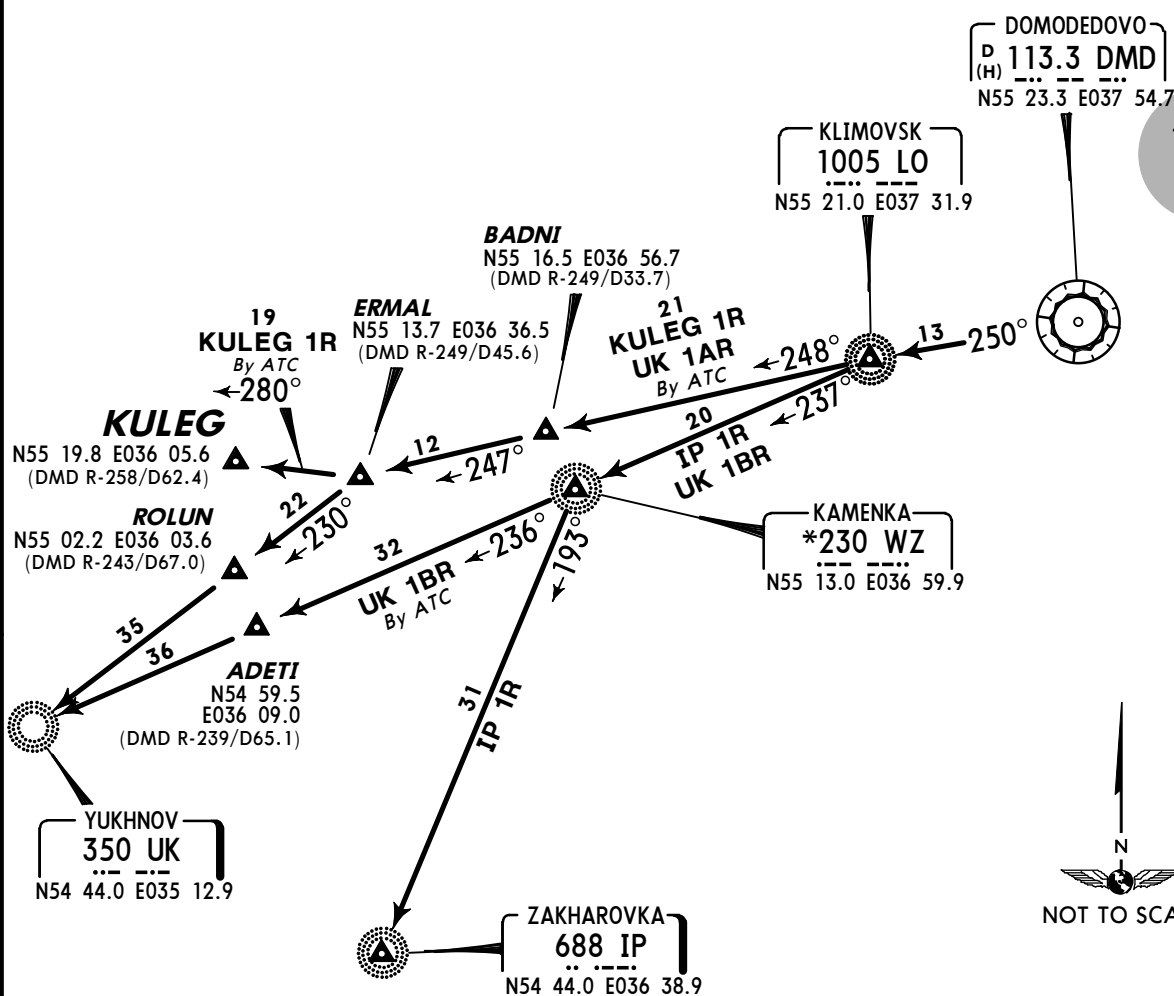
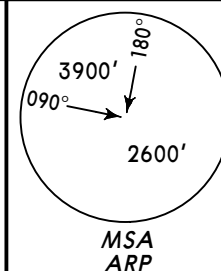
UK 1AR, UK 1BR

TRANSITIONS

FROM DMD

SPEED: MAX 250 KT BELOW FL100

FOR RUSSIAN USERS ONLY



NOT TO SCALE

ALT/HEIGHT CONVERSION
QNH (QFE)
4350' (3946' - 1200m)

TRANSITION	ROUTING
IP 1R	From DMD to LO, then to WZ, then to IP.
KULEG 1R	From DMD to LO, then to ERMAL, then to KULEG.
UK 1AR	From DMD to LO, then to ERMAL, then to ROLUN, then to UK.
UK 1BR	From DMD to LO, then to WZ, then to ADETI, then to UK.

Apt Elev
404'

QNH on request (QFE)

Trans level: FL60

FL70 if pressure is less than 748mm (997.3 hPa)

FL80 if pressure is less than 721mm (961.3 hPa)

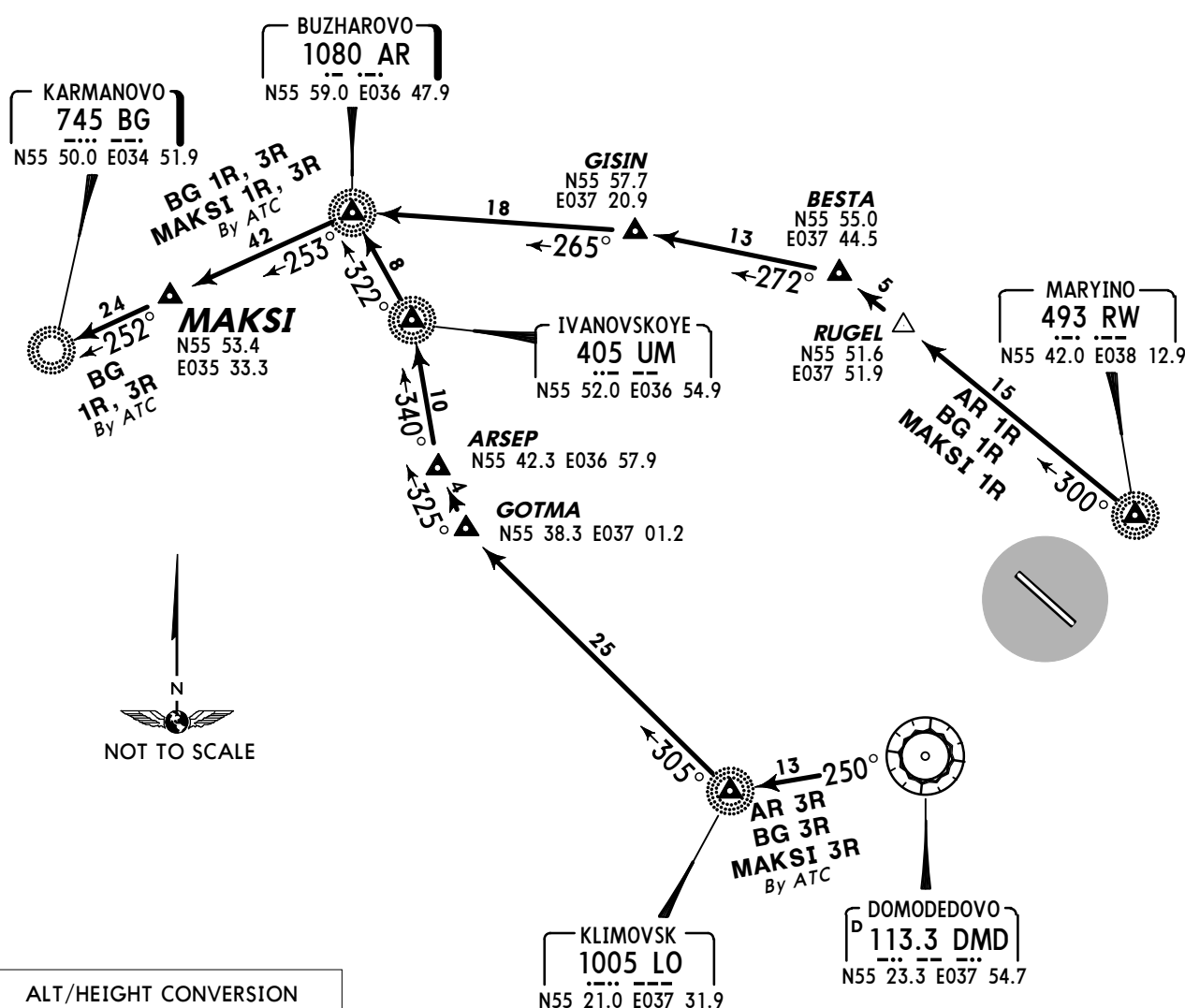
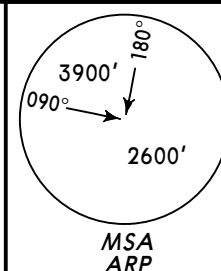
Trans alt (hgt): 4350' (3946')

AR 1R, BG 1R, MAKSI 1R [MAK1R]
FROM RWAR 3R, BG 3R, MAKSI 3R [MAK3R]
FROM DMD

TRANSITIONS

~~SPEED~~ MAX 250 KT BELOW FL100

FOR RUSSIAN USERS ONLY

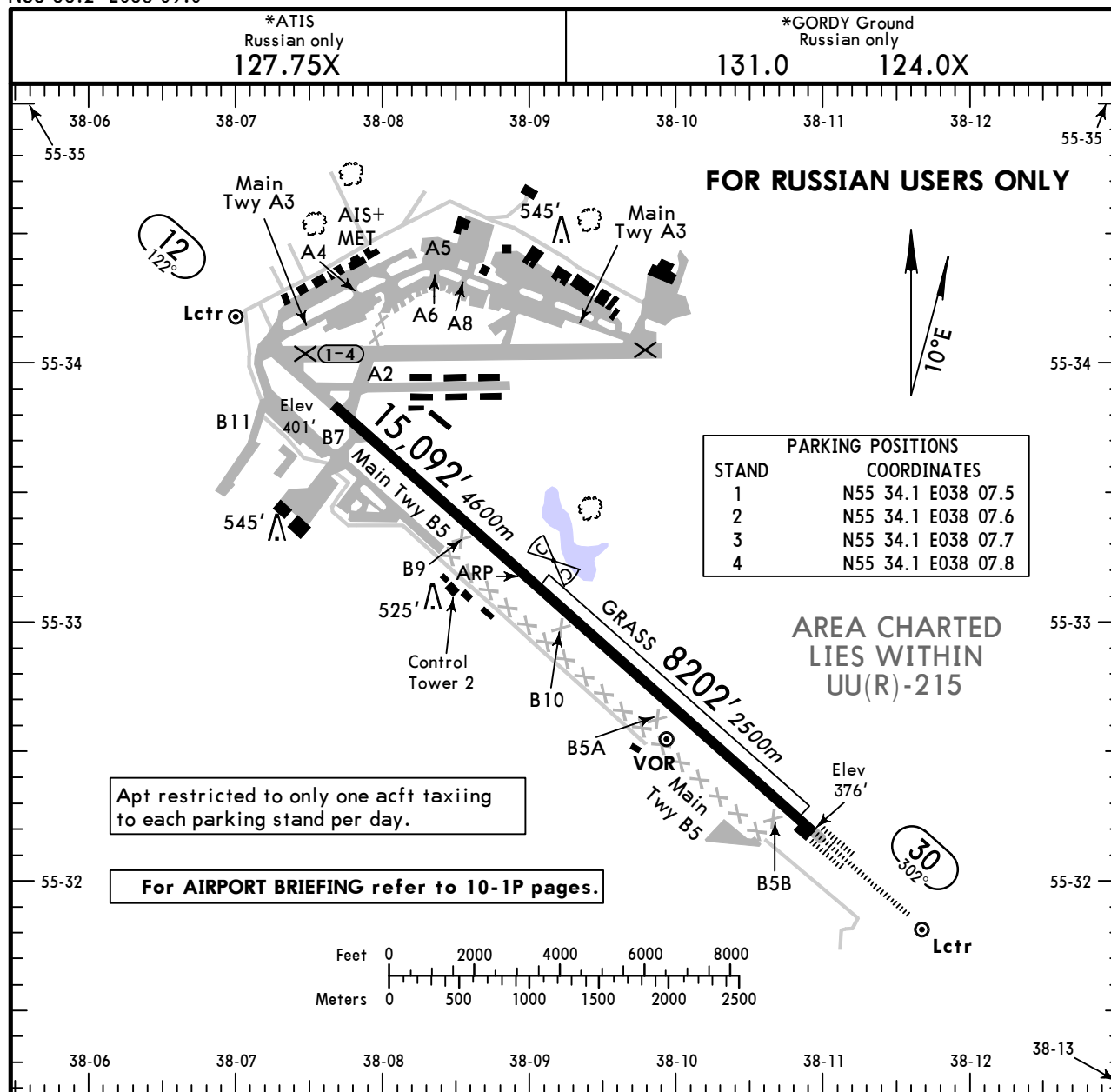
ALT/HEIGHT CONVERSION
QNH (QFE)
4350' (3946' - 1200m)

TRANSITION	ROUTING
AR 1R	From RW to RUGEL, then to BESTA, then to GISIN, then to AR.
AR 3R	From DMD to LO, then to GOTMA, then to ARSEP, then to UM, then to AR.
BG 1R	From RW to RUGEL, then to BESTA, then to GISIN, then to AR, then to MAKSI, then to BG.
BG 3R	From DMD to LO, then to GOTMA, then to ARSEP, then to UM, then to AR, then to MAKSI, then to BG.
MAKSI 1R	From RW to RUGEL, then to BESTA, then to GISIN, then to AR, then to MAKSI.
MAKSI 3R	From DMD to LO, then to GOTMA, then to ARSEP, then to UM, then to AR, then to MAKSI.

UUBW
 Apt Elev **404'**
 N55 33.2 E038 09.0

JEPPESEN
 30 DEC 11 **(10-9)**

RAMENSKOYE, RUSSIA
 RAMENSKOYE



ADDITIONAL RUNWAY INFORMATION

RWY		USABLE LENGTHS		TAKE-OFF	WIDTH
		Threshold	Glide Slope		
12	HIRL PAPI (angle 3.0°)	RVR			230'
30	HIRL HIALS PAPI (angle 3.0°)	RVR			70m
12	Grass runway				197'
30					60m

TAKE-OFF

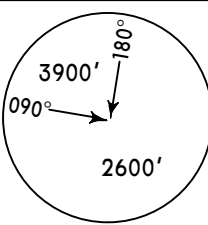
AIR CARRIER (JAA)
All Rwy's

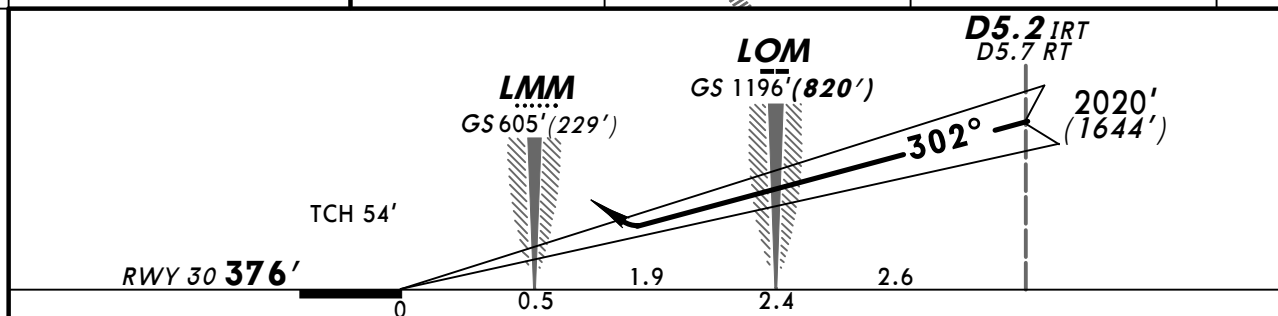
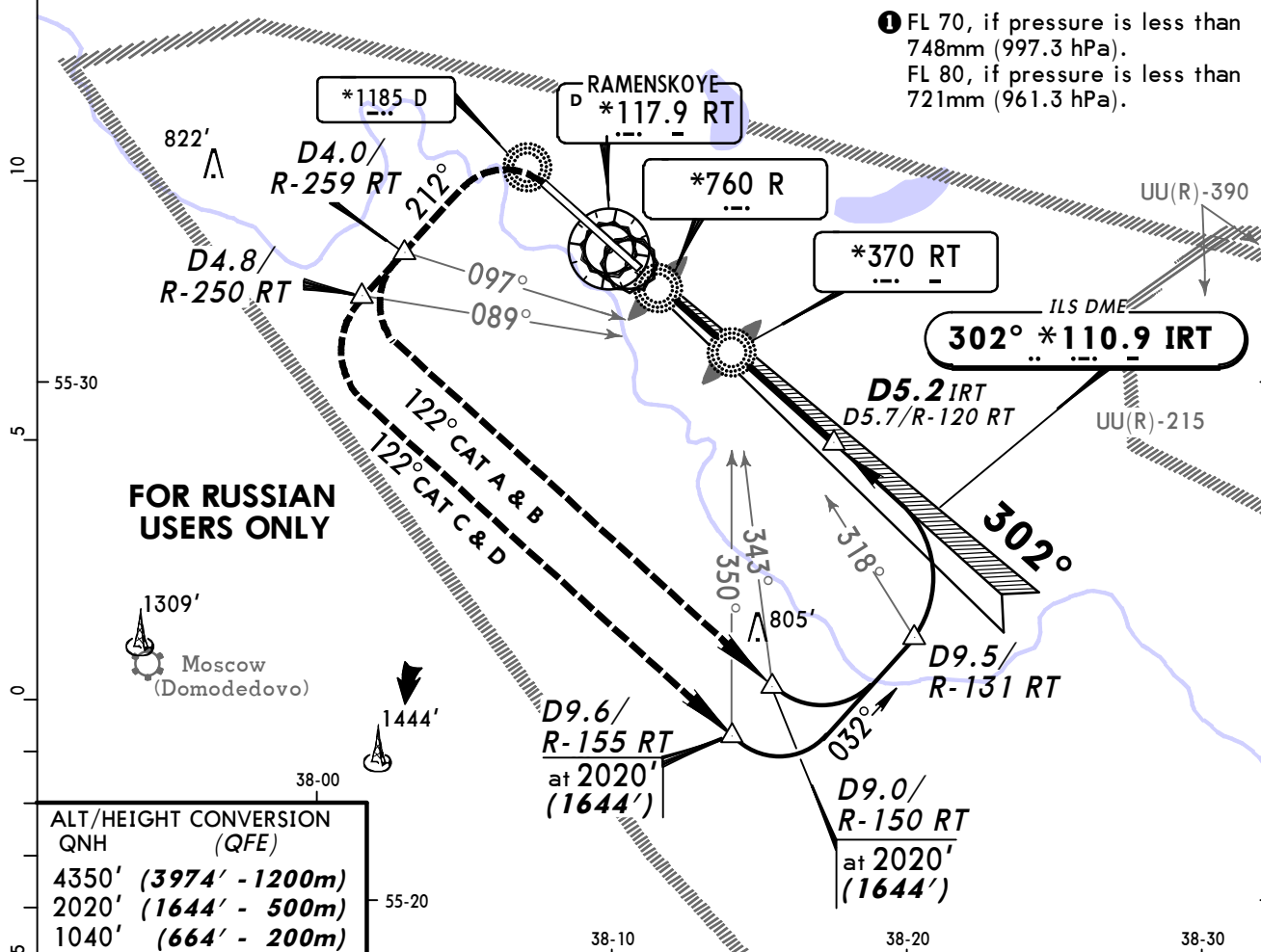
LVP must be in force
 RCLM (DAY only)
 or RL

RCLM (DAY only)
 or RL

A		
B	250m	400m
C		
D	300m	

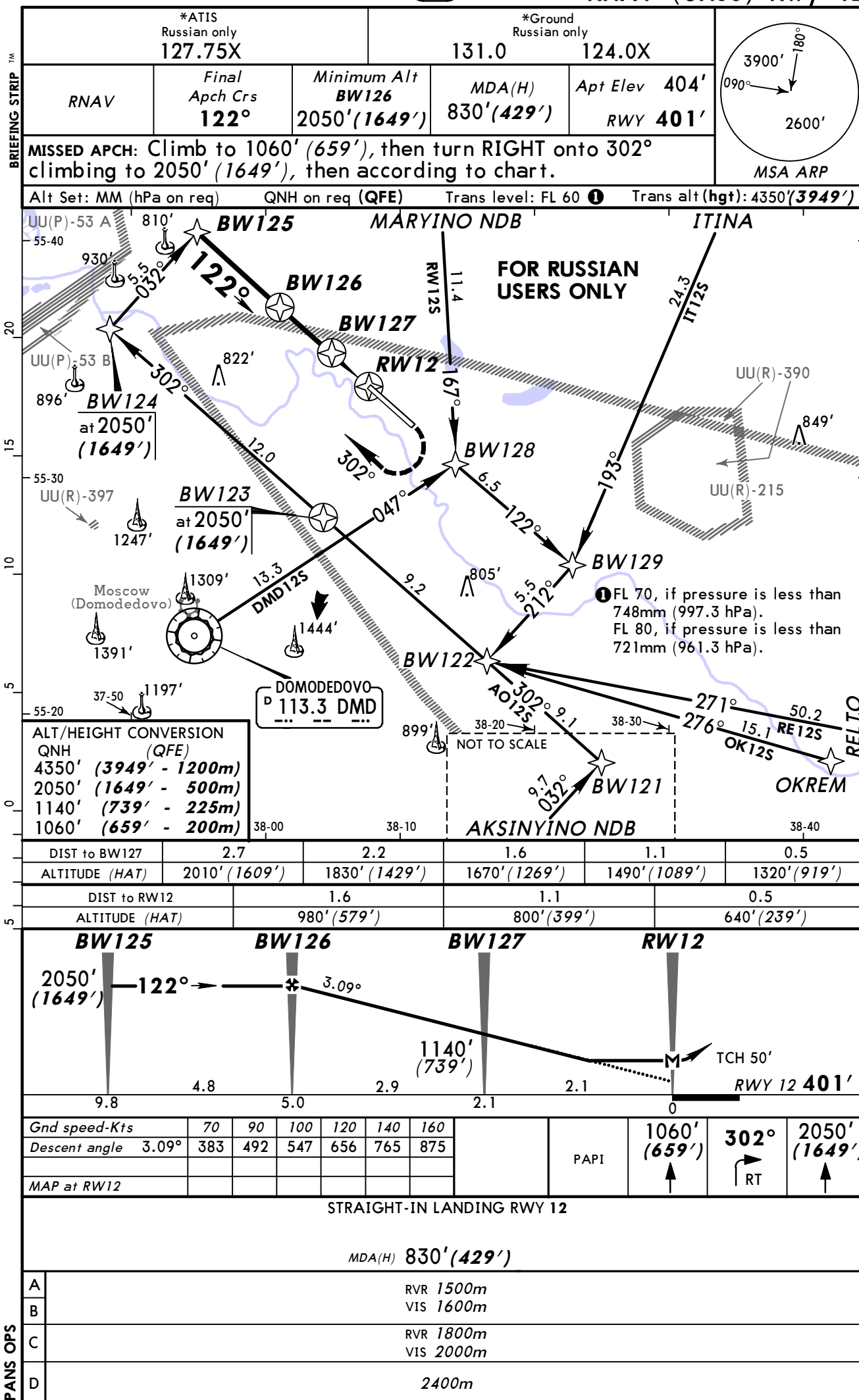
BRIEFING STRIP™

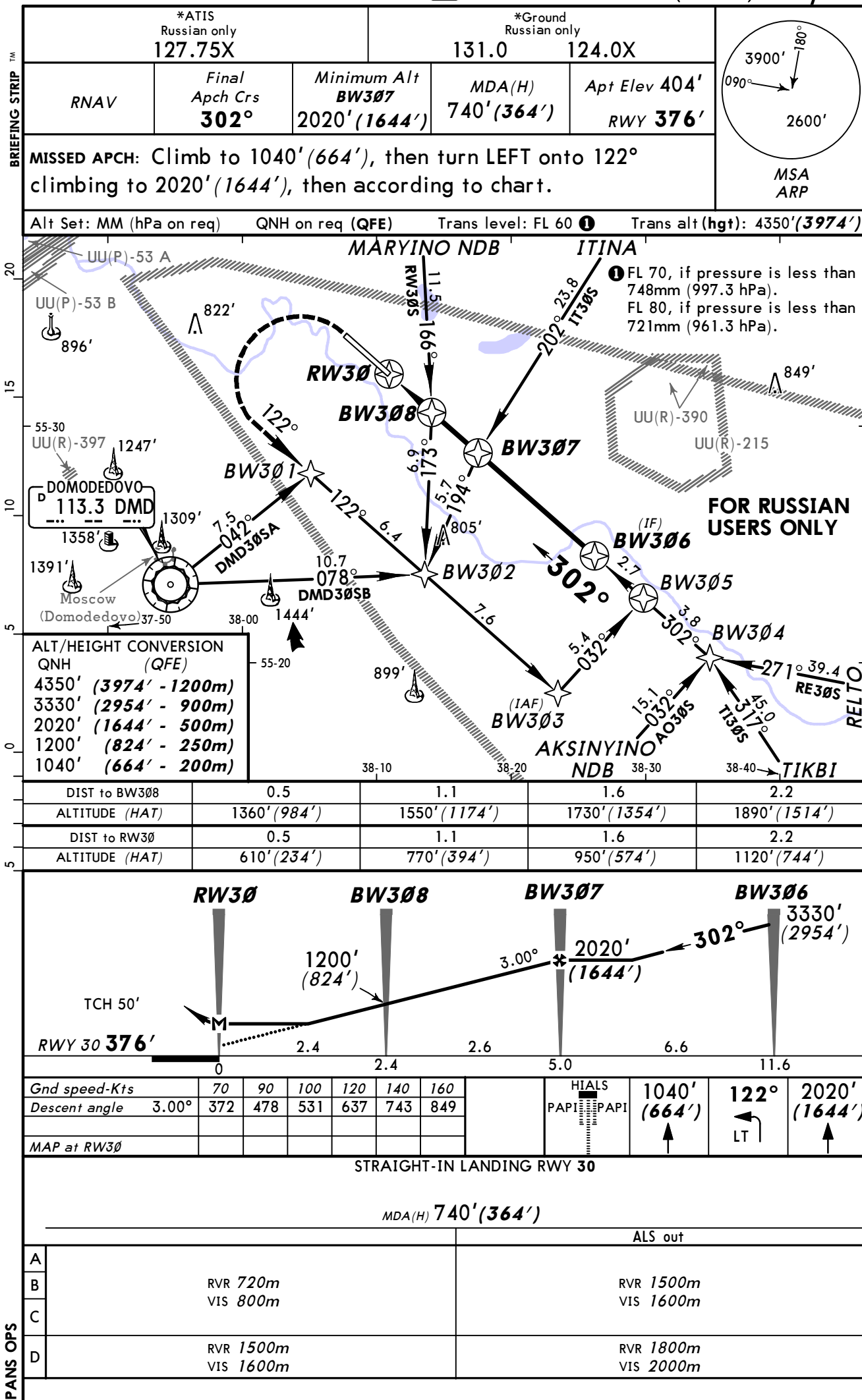
*ATIS Russian only 127.75X			*Ground Russian only 131.0 124.0X		 MSA ARP
LOC IRT *110.9	Final Apch Crs 302°	GS LOM 1196' (820')	ILS DA(H) 1032' (656')	Apt Elev 404' RWY 376'	
MISSED APCH: Climb to 1040' (664'), then turn LEFT onto 212° climbing to 2020' (1644'), then as directed.					
Alt Set: MM (hPa on req)		QNH on req (QFE)		Trans level: FL 60 ①	
					Trans alt: 4350' (3974')

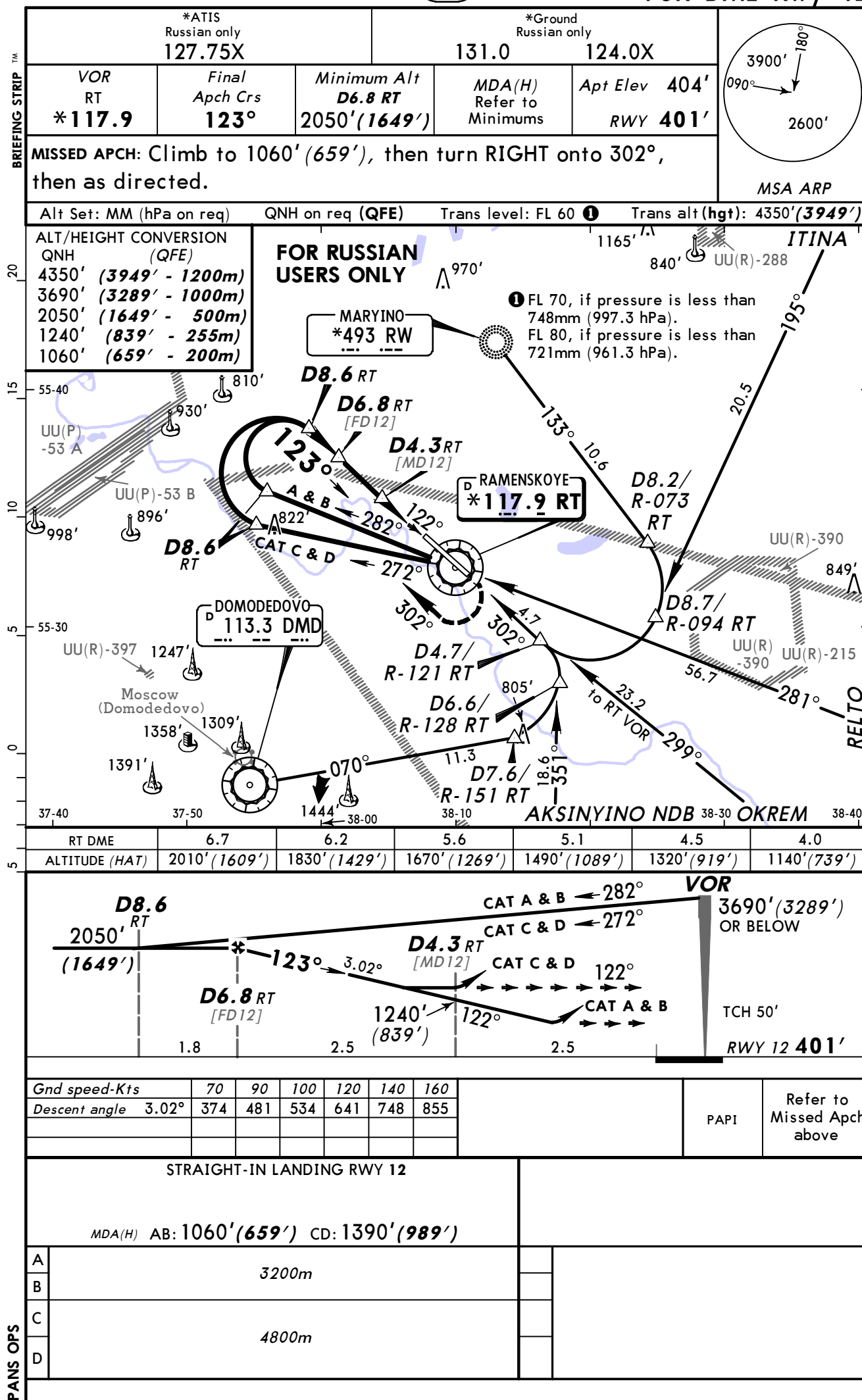


Gnd speed-Kts	70	90	100	120	140	160	HIALS PAPI PAPI		1040' (664')	212°	2020' (1644')
GS	3.00°	372	478	531	637	743	849			LT	

STRAIGHT-IN LANDING RWY 30		LOC (GS out)	
ILS			
DA(H) 1032' (656')			
FULL	ALS out		
A	3200m	NOT AUTH	
B			
C	3200m		
D	3500m		



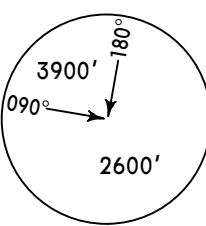




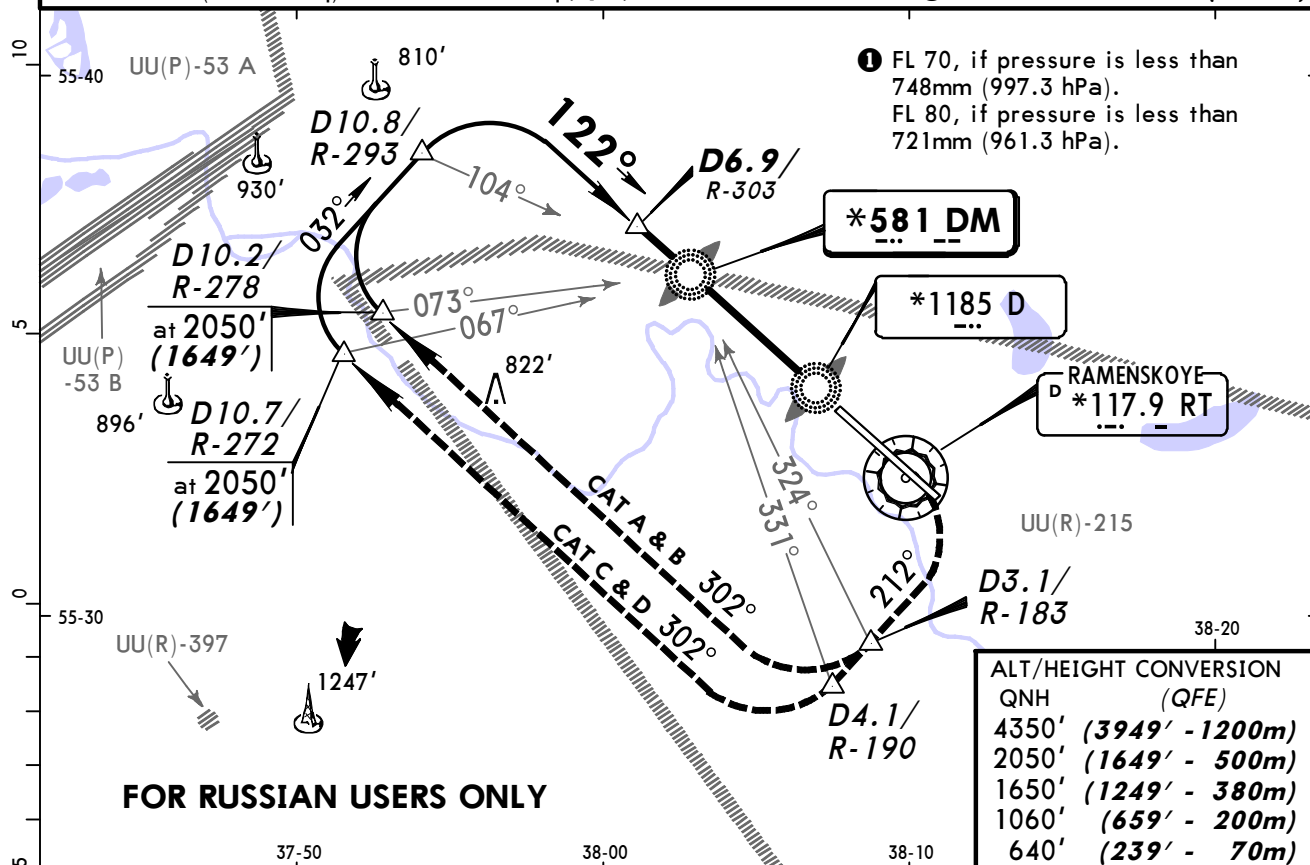
PANS OPS



BRIEFING STRIP™

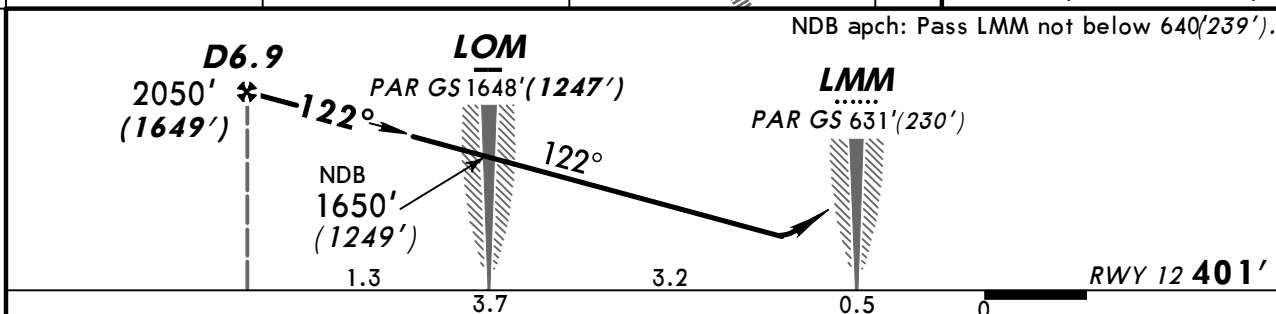
*ATIS Russian only 127.75X		*GORDY Radar Russian only 125.25 124.0X		*Ground Russian only 131.0 124.0X		
RADAR	Final Apch Crs 122°	PAR GS LOM 1648' (1247')	PAR DA(H) 1057' (656')	Apt Elev 404' RWY 401'		
NDB DM *581		Minimum Alt D6.9 2050' (1649')	NDB MDA(H) 1060' (659')			
MISSED APCH: Climb to 1060' (659'), then turn RIGHT onto 212° climbing to 2050' (1649'), then as directed.						MSA ARP

Alt Set: MM (hPa on req) QNH on req (QFE) Trans level: FL 60 ① Trans alt: 4350' (3949')



FOR RUSSIAN USERS ONLY

ALT/HEIGHT CONVERSION	
QNH (QFE)	
4350' (3949' - 1200m)	
2050' (1649' - 500m)	
1650' (1249' - 380m)	
1060' (659' - 200m)	
640' (239' - 70m)	



Gnd speed-Kts	70	90	100	120	140	160				
PAR GS	3.00°	372	478	531	637	743	849			

STRAIGHT-IN LANDING RWY 12									
PAR					NDB				
DA(H) 1057' (656')					MDA(H) 1060' (659')				
A	3200m				3200m				
B									
C	3500m								
D									

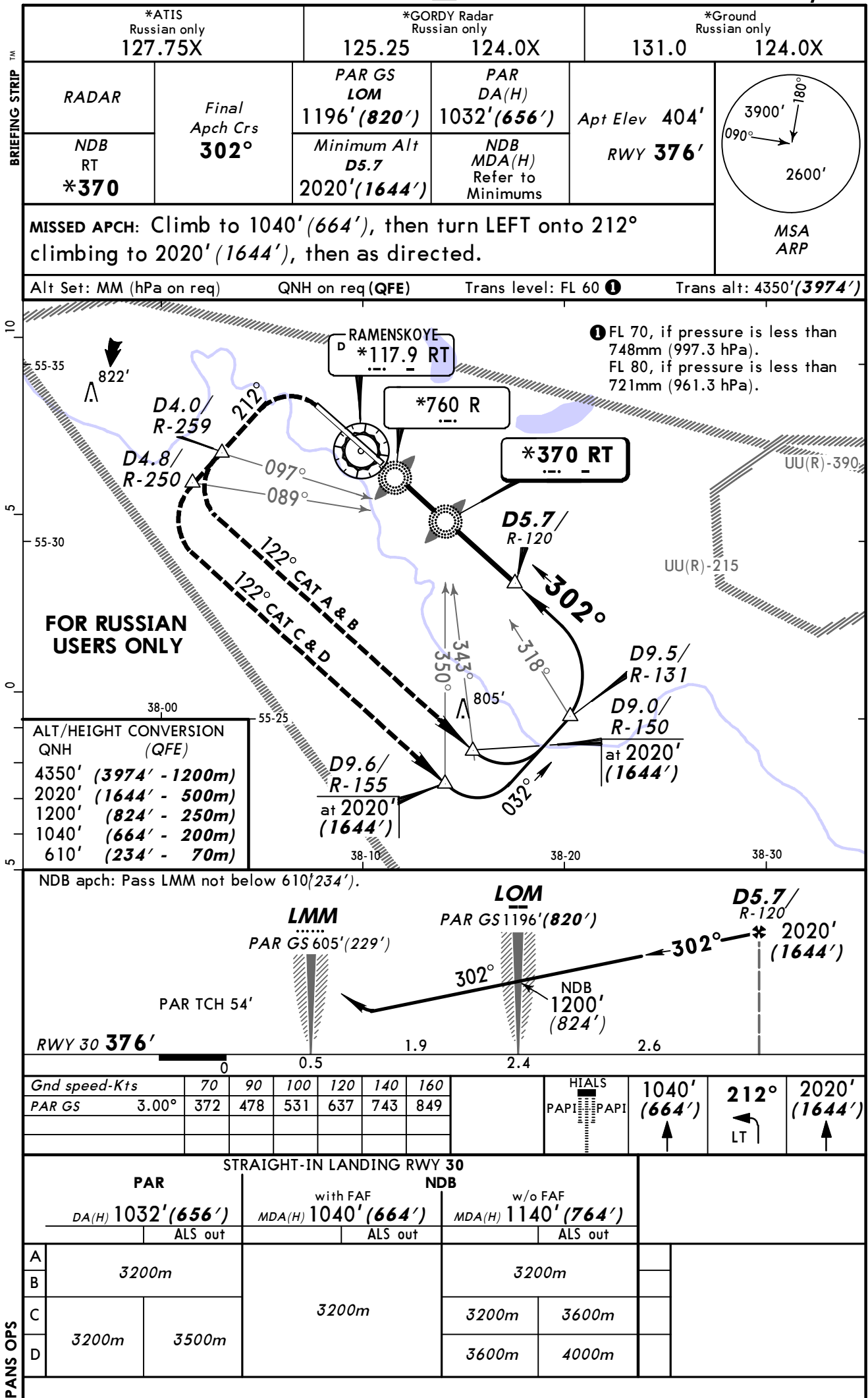


Chart changes since cycle 24-2012

ADD = added chart, REV = revised chart, DEL = deleted chart.

ACT	PROCEDURE IDENT	INDEX	REV DATE	EFF DATE
RAMENSKOYE, (RAMENSKOYE - UUBW)				

TERMINAL CHART CHANGE NOTICES

Chart Change Notices for Airport UUBW

Type: Terminal

Effectivity: Temporary

Begin Date: Immediately

End Date: Until Further Notice

Eff 18 Oct 12 coords of following NDBs changed: (10-2A) BD to N57 06.5 E037 42.7; (10-2B) MF to N56 01.6 E039 38.1; (10-2C) FE to N54 14.4 E038 54.1, IN to N54 36.6 E037 19.4; (10-2D) FK to N55 33.3 E035 01.3; (10-3N) FV to N54 20.7 E038 14.3, UK to N54 44.3 E035 13.3; (10-3P) IP replaced by waypoint SUGIR at N55 44.0 E036 38.6.

Type: Terminal

Effectivity: Temporary

Begin Date: Immediately

End Date: Until Further Notice

Eff 18 Oct 12 coordinates of following NDB changed: RW to N55 42.7 E038 13.7, KS to N55 49.5 E037 16.3.

Type: Terminal

Effectivity: Temporary

Begin Date: Immediately

End Date: Until Further Notice

(10-2C, 10-2T, 10-2U, 10-2V, 10-2W) Eff 18 Oct 12 coords of AO NDB changed to N55 09.2 E038 17.3.