CHANGE: New chart

STANDARD DEPARTURE CHART
INSTRUMENT (SID) - ICAO

TRANSITION ALT: **10000'**
TRANSITION HGT: **(2900)**

VNUKOVO TOWER	**118.300**			
VNUKOVO RADAR	**123.400**	**135.900**		
DOMODEDOVO RADAR	**119.400**	**125.300**	**129.800**	
SHEREMETYEVO RADAR	**118.100**	**122.700**		
MOSCOW APPROACH	**118.950**	**118.550**	**127.200**	**128.000**
	130.375	**124.200**	**131.200**	**134.000**

POKAG 3W, RILPO 3W, SUNUN 3W

RNAV 1

DME/DME or GNSS is required

PZ - 90.11 coordinates

+11°

3800' (1000)

MSAAT/MSHAT 46km from ARP

If unable to comply with published restrictions, advise Vnukovo-Delivery.

MSAAT/MSHAT is computed for surface air temperature at the aerodrome -29°C.

WARNING:
1. The minimum climb gradient required due to the airspace structure:
   - 4.0% up to *6000'*/(1640) for POKAG 3W, RILPO 3W, SUNUN 3W.
2. The minimum climb gradient required due to obstacles:
   - 3.6% up to *1200'*/(175) for POKAG 3W, RILPO 3W, SUNUN 3W.
3. There are close-in obstacles:
   - RWY 01: located to the left and right of take-off heading at DIST 234-1487m from DER with MAX ELEV *665'*/(10).

UUP406 1200m/*4000'* AMSL GND

UUP405 1200m/*4000'* AMSL GND

UUP64 FL105 GND

UUR320 2150m/*7000'* AMSL GND

UUR281 450m/*1500'* AMSL GND

UUR392 3650m/ *12000'* AMSL GND

UUR317 950m/*3100'* AMSL GND

UUR280 450m/*1500'* AMSL GND

UUP52 UNL GND

UUP53 FL265 GND

UUP63 UNL GND

UUP95 250m/*900'* AMSL GND

UUP54 1200m/*4000'* AMSL GND

UUP78 450m/*1500'* AMSL GND

UUP94 300m/*1000'* AMSL GND

UUR333 850m/*2800'* AMSL GND

400m /*1300'* AGL GND

1200m/*3900'* AGL GND

Moscow channel

Lama

Sestra

Klyazma

Istra

Ruza

Moskva

Pakhra

MOSCOW

RILPO — 29.0 — 033° — **OSGAK** — 9.5 — 035° — **GORNA**
FL170-FL180
IAS 270KT/500km/h

NOT TO SCALE

37.3 — **RILPO 3W** — 034° — **KOMNI**
FL160-FL170
IAS 270KT/500km/h

VNUKOVO 113.7 WNK
55 35 18N 037 15 15E

SAVELOVO 111.8 SWO
56 22 04N 037 25 51E

17.2 — 012° — **TAFAZ**
FL150-FL160
IAS 270KT/500km/h

KOSTINO 113.2 IKO
56 18 08N 037 42 41E

21.2 — 034° — **TIRDE**
FL140-FL150
IAS 270KT/500km/h

SHEREMETYEVO 114.6 MR
55 58 44N 037 19 41E

16.6 — 022° — **DUFAR**
FL130-FL140
IAS 270KT/500km/h

OPALIKHA 109.7 OPH
55 49 31N 037 16 14E

24.9 — 311° — **DEFAL**
FL130-FL140
IAS 270KT/500km/h

19.6 — 350° — **NUZOR**
FL110-FL130
IAS 250KT/465km/h

13.6 — 310° — **PUFIK**
FL130-FL140
IAS 270KT/500km/h

9.6 — 271° — **GIGUN**
10000'/(2860) or below
IAS 250KT/465km/h

18.3 — 233° — **ITVIN**
FL150 or above
IAS 270KT/500km/h

10.0 — 326°

60.4 — 245° — **POKAG 3W** — **POKAG**

11.2 — 327° — **LIKNI**

25.1 — 275° — **SUNUN 3W** — **SUNUN**

RIZNO
FL140 or above
IAS 270KT/500km/h

WW018
2500'/(570) or above
IAS 220KT/405km/h

6.5 — 102°

WW017
MAX IAS
205KT/380km/h

7.8 — 012°

9.9 — 143°

WW019
3500'/(875) or above
IAS 240KT/445km/h

15.4 — 303°

WW191
7000'/(1945) or below
IAS 250KT/465km/h

11.0 — 308°

16.0 — 213° — POKAG 3W, RILPO 3W, SUNUN 3W

WW014
6000'/(1640)
IAS 240KT/
/445km/h

2300' (510)

SCALE 1 : 500 000

km 5 0 5 10 15km

BEARINGS AND TRACKS ARE MAGNETIC ALTITUDES IN *FEET* HEIGHTS IN METRES ELEVATIONS IN *FEET* AND METRES DISTANCES IN KILOMETRES	Alt set: -QNH(QFE on req); -hPa(mm on req).

MOSCOW, RUSSIA
VNUKOVO
RNAV RWY 01