

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
	130.375 124.200 131.200 127.700

PZ - 90.11 coordinates
 ① PZ - 90.02 coordinates

EMGAS 3C, EMGAS 3D,
TOGMO 3C, TOGMO 3D

DME/DME or GNSS is required

RNAV 1

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

MINIMUM CLIMB GRADIENT
(due to the airspace structure):
8.2% up to 8000'/(2555).
WARNING:
Close-in obstacles:
- RWY 19: to the left and right of take-off heading
at DIST 219-682m from DER with MAX ELEV 711'/(25);
- RWY 24: to the left and right of take-off heading
at DIST 366-1298m from DER with MAX ELEV 700'/(5).

VNUKOVO
113.7 WNK

MARYINO
112.5 MRN

CHULKOVO
109.2 LP

DOMODEDOVO
113.3 DMD

SOMAG
9000'/(2555)
IAS 465km/h/250KT

GLOTAYEVO
113.5 GLW

SURZA
FL110-FL130
IAS 500km/h/270KT

BABUT

OFIRA
FL130-FL150
IAS 500km/h/270KT

RIREN
FL150 or above
IAS 500km/h/270KT

LAZIT
FL170-FL210
IAS 500km/h/270KT

POZUK
FL150-FL190
IAS 500km/h/270KT

OMEZA
FL210 or below
IAS 500km/h/270KT

VENEV
108.6 WW

WW192
4500'/(1180) or above
IAS 405km/h/220KT

WW058
8000'/(2250)-
-9000'/(2555)
IAS 465km/h/250KT

UUR252
900m/3000' AMSL
GND

UUP92
1200m/4000' AMSL
GND

UUP439
1700m/5500' AMSL
GND

UUP400
900m/3000' AMSL
GND

HGT is given relative to RWY 19
THR ELEV 634'/193m.

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

③ EMGAS 3D, TOGMO 3D
④ EMGAS 3C, TOGMO 3C

SCALE 1 : 500 000
km 0 5 10 15

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).

CHANGE: UUP