

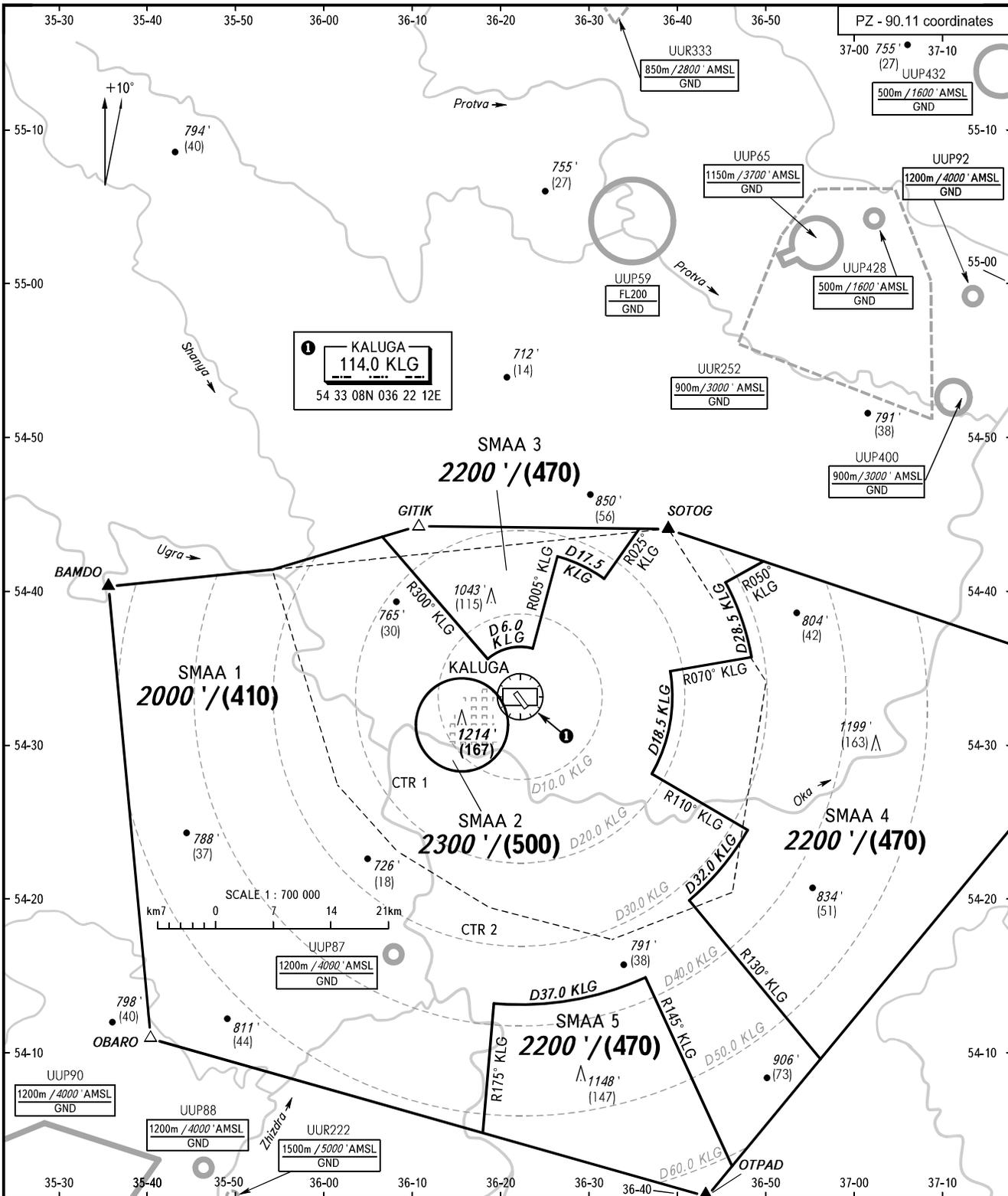
ATC SURVEILLANCE MINIMUM
ALTITUDE CHART- ICAO

ELEV
666' / 203m

TRANSITION ALT: 5000'
TRANSITION HGT: (1320)

KALUGA, RUSSIA

GRABTSEVO



1 KALUGA
114.0 KLG
54 33 08N 036 22 12E

SMAA 3
2200' / (470)

SMAA 1
2000' / (410)

SMAA 2
2300' / (500)

SMAA 4
2200' / (470)

SMAA 5
2200' / (470)

KALUGA TOWER 120.300

WARNING:
1. The chart may only be used for cross-checking of altitudes assigned while the aircraft is identified under radar control.
2. TEMPERATURE CORRECTION:
The altitude value of sectors is calculated for ISA conditions (15°C).
When vectoring is executed at a temperature of 0°C or below, the minimum vectoring altitudes must be corrected by altimeter temperature correction.
3. COMMUNICATION FAILURE: In accordance with the procedures, described in AIP.

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: New chart

SURVEILLANCE MINIMUM ALTITUDE AREAS		
IDENT	MNM ALT/HGT (ft/m)	LATERAL LIMITS (PZ-90.11 coordinates)
SMAA 1	2000' (410)	544009N 0353541E - 544120N 0361037E - 544244N 0360209E - 543513N 0361756E, then clockwise by arc of a circle radius of 6.0 KM centred at VORDME KLG (543308.3N 0362211.8E) to 543616N 0362338E - 544215N 0362625E, then clockwise by arc of a circle radius of 17.5 KM centred at VORDME KLG (543308.3N 0362211.8E) to 544052N 0363132E - 544402N 0363522E - 544400N 0363853E - 544202N 0364856E - 544047N 0364509E, then clockwise by arc of a circle radius of 28.5 KM centred at VORDME KLG (543308.3N 0362211.8E) to 543546N 0364815E - 543551N 0363906E, then clockwise by arc of a circle radius of 18.5 KM centred at VORDME KLG (543308.3N 0362211.8E) to 542808N 0363701E - 542428N 0364748E, then clockwise by arc of a circle radius of 32.0 KM centred at VORDME KLG (543308.3N 0362211.8E) to 541954N 0364110E - 540935N 0365555E - 540255N 0364612E - 541503N 0363636E, then clockwise by arc of a circle radius of 37.0 KM centred at VORDME KLG (543308.3N 0362211.8E) to 541316N 0361914E - 540449N 0361758E - 541050N 0354057E - 544009N 0353541E.
SMAA 2	2300' (500)	A circle radius of 5.6 KM centred at 543119N 0361539E.
SMAA 3	2200' (470)	544244N 0360209E - 544414N 0361037E - 544402N 0363522E - 544052N 0363132E, then counterclockwise by arc of a circle radius of 17.5 KM centred at VORDME KLG (543308.3N 0362211.8E) to 544215N 0362625E - 543616N 0362338E, then counterclockwise by arc of a circle radius of 6.0 KM centred at VORDME KLG (543308.3N 0362211.8E) to 543513N 0361756E - 544244N 0360209E.
SMAA 4	2200' (470)	544202N 0364856E - 543940N 0370057E - 543653N 0371540E - 543600N 0371953E - 543258N 0372958E - 540935N 0365555E - 541954N 0364110E, then counterclockwise by arc of a circle radius of 32.0 KM centred at VORDME KLG (543308.3N 0362211.8E) to 542428N 0364748E - 542808N 0363701E, then counterclockwise by arc of a circle radius of 18.5 KM centred at VORDME KLG (543308.3N 0362211.8E) to 543551N 0363906E - 543546N 0364815E, then counterclockwise by arc of a circle radius of 28.5 KM centred at VORDME KLG (543308.3N 0362211.8E) to 544047N 0364509E - 544202N 0364856E.
SMAA 5	2200' (470)	540449N 0361758E - 541316N 0361914E, then counterclockwise by arc of a circle radius of 37.0 KM centred at VORDME KLG (543308.3N 0362211.8E) to 541503N 0363636E - 540255N 0364612E - 540041N 0364259E - 540449N 0361758E.