

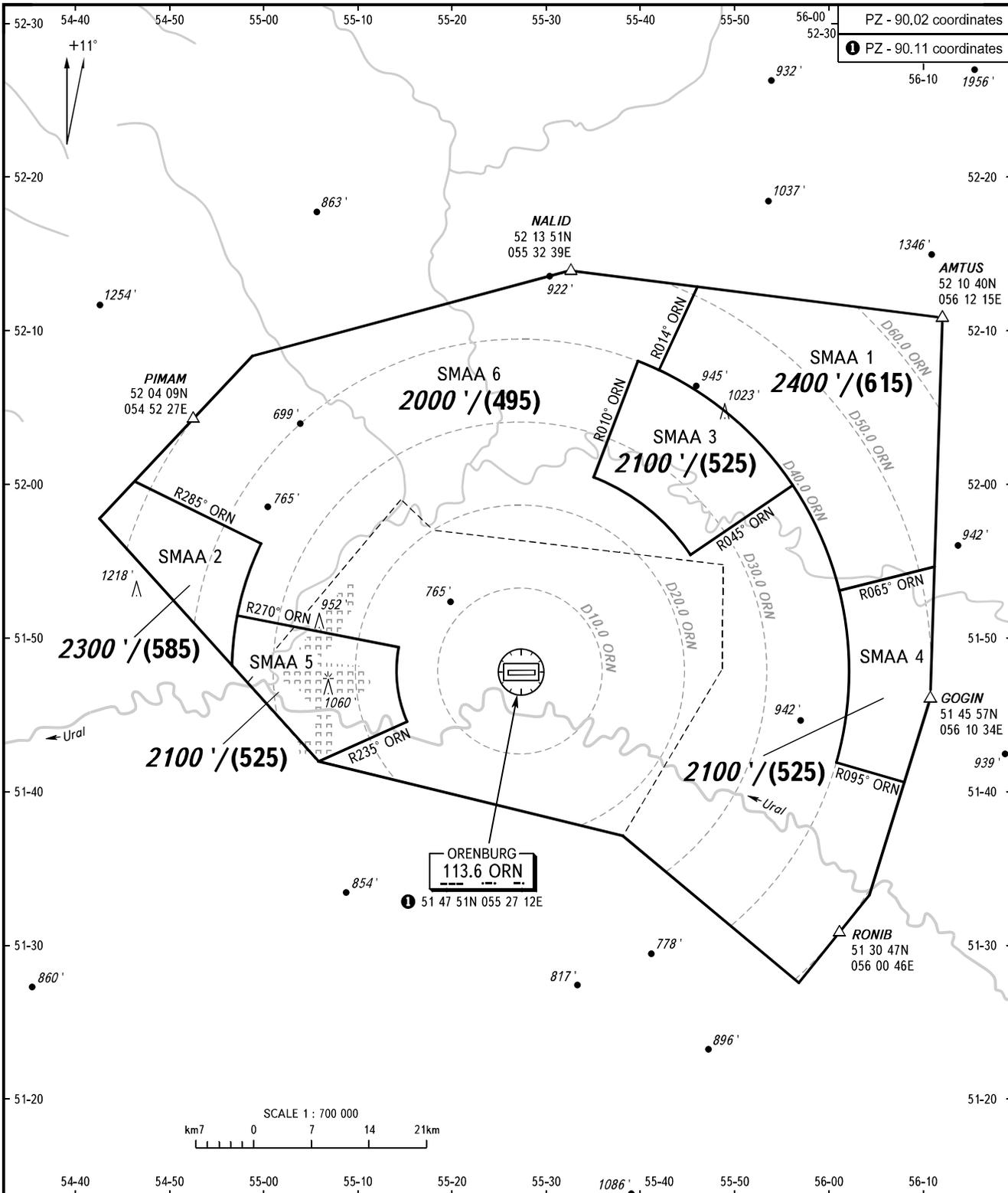
ATC SURVEILLANCE MINIMUM  
ALTITUDE CHART - ICAO

ELEV  
387' / 118m

TRANSITION ALT: 3000'  
TRANSITION HGT: (795)

ORENBURG, RUSSIA

ORENBURG



RADAR TOWER  
120.400  
128.000

- NOTE:**
1. The chart may only be used for cross-checking of altitudes assigned while the aircraft is under radar control.
  2. When vectoring is carried out under low-temperature conditions, minimum vectoring altitudes for IFR flight must be corrected by altimeter temperature correction.

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: Heading

**ORENBURG, RUSSIA**  
**ORENBURG**

SURVEILLANCE MINIMUM ALTITUDE AREAS		
IDENT	MNM ALT/(HGT) (FT/M)	LATERAL LIMITS (PZ-90.11 coordinates)
SMAA 1	2400/ (615)	520723.6N 0554201.1E – 521247.6N 0554609.2E, then along Orenburg CTR boundary to 515429.7N 0561108.7E – 515259.6N 0560102.1E, then anticlockwise by arc of a circle radius of 40 KM centred at 514751.3N 0552712.2E to 520723.6N 0554201.1E
SMAA 2	2300/ (585)	514807.5N 0545645.5E, then along Orenburg CTR boundary to 520003.1N 0544617.8E – 515604.6N 0545945.3E, then anticlockwise by arc of a circle radius of 35 KM centred at 514751.3N 0552712.2E to 514807.5N 0545645.5E
SMAA 3	2100/ (525)	520026.4N 0553502.1E – 520759.2N 0553946.1E, then clockwise by arc of a circle radius of 40 KM centred at 514751.3N 0552712.2E to 515951.7N 0555611.0E – 515522.4N 0554517.1E, then anticlockwise by arc of a circle radius of 25 KM centred at 514751.3N 0552712.2E to 520026.4N 0553502.1E
SMAA 4	2100/ (525)	515259.6N 0560102.1E – 515429.7N 0561108.7E, then along Orenburg CTR boundary to 514030.7N 0560744.2E – 514149.7N 0560034.9E, then anticlockwise by arc of a circle radius of 40 KM centred at 514751.3N 0552712.2E to 515259.6N 0560102.1E
SMAA 5	2100/ (525)	514157.9N 0550601.9E, then along Orenburg CTR boundary to 514807.5N 0545645.5E, then clockwise by arc of a circle radius of 35 KM centred at 514751.3N 0552712.2E to 515123.6N 0545716.6E – 514923.2N 0551423.3E, then anticlockwise by arc of a circle radius of 15 KM centred at 514751.3N 0552712.2E to 514433.2N 0551517.9E – 514157.9N 0550601.9E
SMAA 6	2000/ (495)	514157.9N 0550601.9E – 514433.2N 0551517.9E, then clockwise by arc of a circle radius of 15 KM centred at 514751.3N 0552712.2E to 514923.2N 0551423.3E – 515123.6N 0545716.6E, then clockwise by arc of a circle radius of 35 KM centred at 514751.3N 0552712.2E to 515604.6N 0545945.3E – 520003.1N 0544617.8E, then along Orenburg CTR boundary to 521247.6N 0554609.2E – 520723.6N 0554201.1E, then anticlockwise by arc of a circle radius of 40 KM centred at 514751.3N 0552712.2E to 520759.2N 0553946.1E – 520026.4N 0553502.1E, then clockwise by arc of a circle radius of 25 KM centred at 514751.3N 0552712.2E to 515522.4N 0554517.1E – 515951.7N 0555611.0E, then clockwise by arc of a circle radius of 40 KM centred at 514751.3N 0552712.2E to 514149.7N 0560034.9E – 514030.7N 0560744.2E, then along Orenburg CTR boundary to 514157.9N 0550601.9E