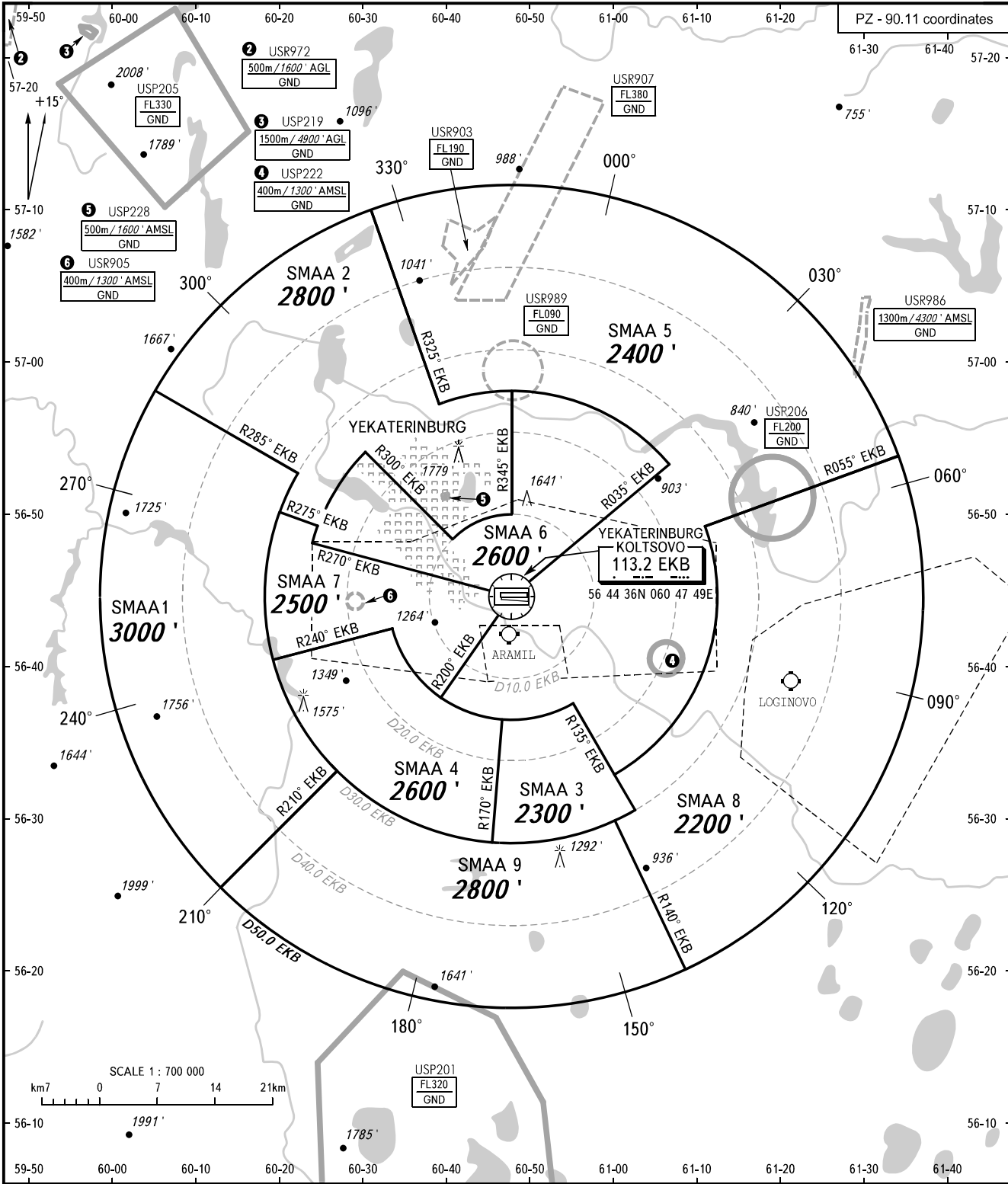


ATC SURVEILLANCE MINIMUM
ALTITUDE CHART - ICAO

ELEV	TRANSITION ALTITUDE:
766'	4000'

YEKATERINBURG, RUSSIA
KOLTSOVO



KOLTSOVO APPROACH **125.900**
KOLTSOVO RADAR **118.700**
KOLTSOVO START **124.300**

WARNING
The minimum altitudes are given for ISA conditions (15°C).
The minimum altitudes must be corrected when temperature is 0°C or below.

NOTE
The chart may only be used for cross-checking of altitudes
assigned while the aircraft is under radar control.

BEARINGS AND TRACKS ARE MAGNETIC
ALTITUDES AND ELEVATIONS IN FEET
DISTANCES IN KILOMETRES

CHANGE: New chart

YEKATERINBURG, RUSSIA
KOLTSOVO

SURVEILLANCE MINIMUM ALTITUDE AREAS		
IDENT	MNM ALT	LATERAL LIMITS (PZ-90.02 coordinates)
SMAA 1	3000'	565757N 0600506E, 565238N 0602215E, then anticlockwise by arc of a circle radius of 30 km centred at 564436N 0604749E to 563308N 0602707E, 562528N 0601327E, then clockwise by arc of a circle radius of 50 km centred at 564436N 0604749E, 565757N 0600506E.
SMAA 2	2800'	570954N 0603052E, 565712N 0603907E, then clockwise by arc of a circle radius of 25 km centred at 564436N 0604749E to 565804N 0604749E, 564959N 0604749E, then anticlockwise by arc of a circle radius of 10 km centred at 564436N 0604749E to 564824N 0604053E, 565406N 0603025E, then anticlockwise by arc of a circle radius of 25 km centred at 564436N 0604749E to 564910N 0602444E, 565004N 0602007E, then clockwise by arc of a circle radius of 30 km centred at 564436N 0604749E to 565238N 0602215E, 565757N 0600506E, then clockwise by arc of a circle radius of 50 km centred at 564436N 0604749E to 570954N 0603052E.
SMAA 3	2300'	563632N 0604633E, then anticlockwise by arc of a circle radius of 15 km centred at 564436N 0604749E to 563735N 0605509E, 563035N 0610227E, then clockwise by arc of a circle radius of 30 km centred at 564436N 0604749E to 562829N 0604522E, 563632N 0604633E.
SMAA 4	2600'	564024N 0601927E, 564229N 0603338E, then anticlockwise by arc of a circle radius of 15 km centred at 564436N 0604749E to 563632N 0604633E, 562829N 0604522E, then anticlockwise by arc of a circle radius of 30 km centred at 564436N 0604749E to 562956N 0610011E, 562008N 0610820E, then clockwise by arc of a circle radius of 50 km centred at 564436N 0604749E to 562528N 0601327E, 563308N 0602707E, then clockwise by arc of a circle radius of 30 km centred at 564436N 0604749E to 564024N 0601927E.
SMAA 5	2400'	570954N 0603052E, then clockwise by arc of a circle radius of 50 km centred at 564436N 0604749E to 565340N 0613406E, 564910N 0611055E, then clockwise by arc of a circle radius of 25 km centred at 564436N 0604749E to 563255N 0610001E, 563735N 0605509E, then clockwise by arc of a circle radius of 15 km centred at 564436N 0604749E to 563758N 0603925E, 564436N 0604749E, 565314N 0610641E, then anticlockwise by arc of a circle radius of 25 km centred at 564436N 0604749E to 565712N 0603907E, 570954N 0603052E.
SMAA 6	2700'	564803N 0602406E, then clockwise by arc of a circle radius of 25 km centred at 564436N 0604749E to 565406N 0603025E, 564824N 0604053E, then clockwise by arc of a circle radius of 10 km centred at 564436N 0604749E to 564959N 0604749E, 565804N 0604749E, then clockwise by arc of a circle radius of 25 km centred at 564436N 0604749E to 565314N 0610641E, 564436N 0604749E, 564803N 0602406E.
SMAA 7	2500'	565004N 0602007E, 564910N 0602444E, then anticlockwise by arc of a circle radius of 25 km centred at 564436N 0604749E to 564803N 0602406E, 564436N 0604749E, 563758N 0603925E, then clockwise by arc of a circle radius of 15 km centred at 564436N 0604749E to 564229N 0603338E, 564024N 0601927E, then clockwise by arc of a circle radius of 30 km centred at 564436N 0604749E to 565004N 0602007E.
SMAA 8	2200'	564910N 0611055E, 565340N 0613406E, then clockwise by arc of a circle radius of 50 km centred at 564436N 0604749E to 562008N 0610820E, 562956N 0610011E, then anticlockwise by arc of a circle radius of 30 km centred at 564436N 0604749E to 563035N 0610227E, 563255N 0610001E, then anticlockwise by arc of a circle radius of 25 km centred at 564436N 0604749E to 564910N 0611055E.
SMAA 9	2800'	563308N 0602707E, then anticlockwise by arc of a circle radius of 30 km centred at 564436N 0604749E to 562956N 0610011E, 562008N 0610819E, then clockwise by arc of a circle radius of 50 km centred at 564436N 0604749E to 562527N 0601326E, 563308N 0602707E