

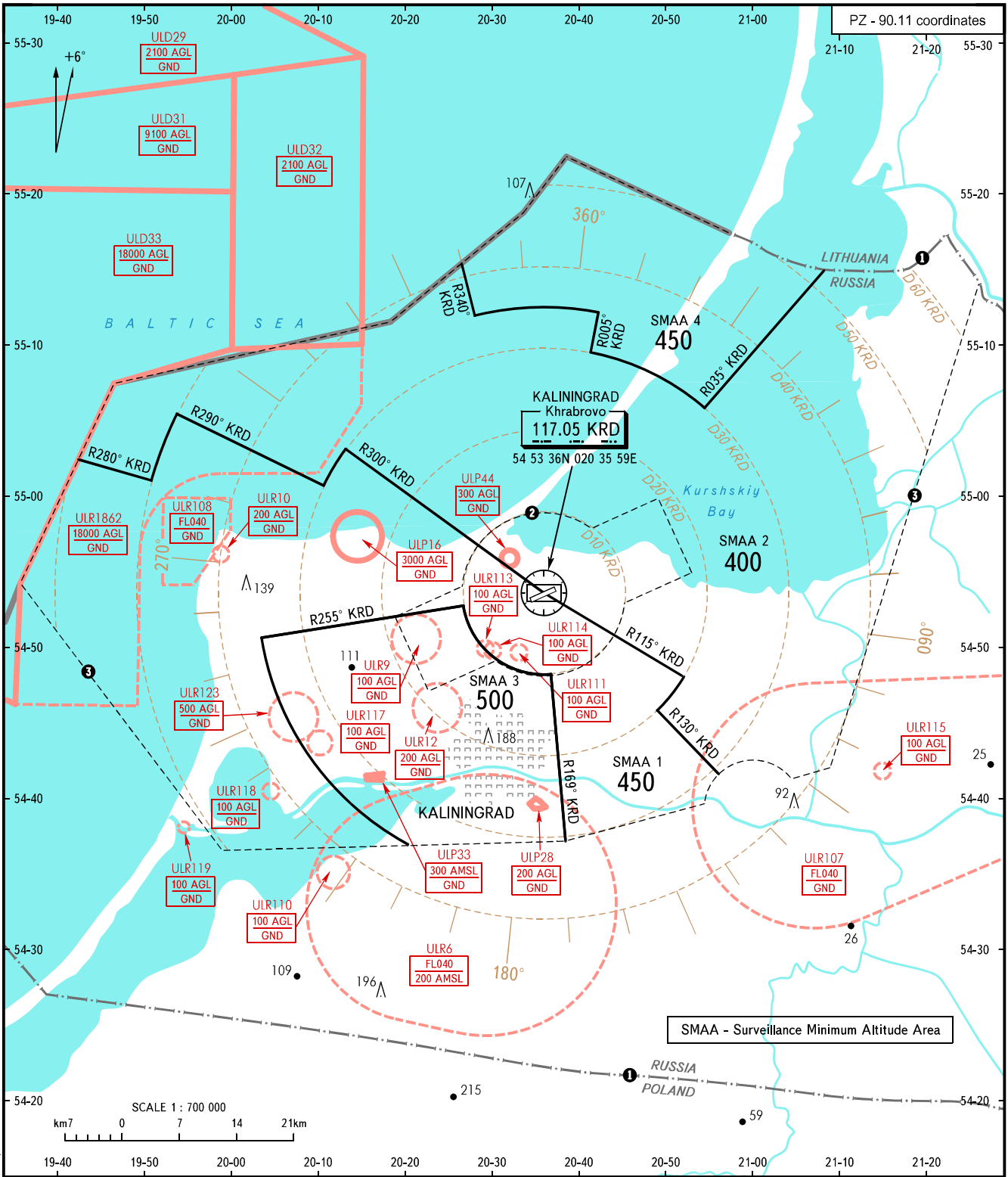
ATC SURVEILLANCE MINIMUM  
ALTITUDE CHART - ICAO

ELEV  
13m

TRANSITION HEIGHT : (1000)

KALININGRAD, RUSSIA

KHRABROVO



APPROACH TOWER 126.000  
TOWER 127.200

**NOTE**  
Chart may only be used for cross-checking of altitudes assigned while under vectoring control.

- ① TMA boundaries coincide with the Russian Federation state border.
- ② CTR 1 (GND-500 AMSL).
- ③ CTR 2 (above 200 AMSL up to FL080 excluding CTR 1).

BEARINGS AND TRACKS ARE MAGNETIC  
ALTITUDES, HEIGHTS AND ELEVATIONS ARE IN METRES  
DISTANCES ARE IN KILOMETRES

CHANGE: ULR112, ULR116 withdrawn, ULP44

**KALININGRAD, RUSSIA**  
**KHRABROVO**

SURVEILLANCE MINIMUM ALTITUDE AREAS		
IDENT	MNM ALT	LATERAL LIMITS (PZ-90.11 coordinates)
SMAA 1	450	545400N 0193600E - 550214N 0194219E - 550053N 0195053E then clockwise by arc of a circle radius of 50 KM centred at 545336N 0203559E to 550518N 0195344E - 550039N 0201041E then clockwise by arc of a circle radius of 30 KM centred at 545336N 0203559E to 550304N 0201311E - 545336N 0203559E - 544802N 0205159E then clockwise by arc of a circle radius of 20 KM centred at 545336N 0203559E to 544550N 0204856E - 544137N 0205554E then along TMA boundary to 543712N 0203827E - 544814N 0203647E then clockwise by arc of a circle radius of 10 KM centred at 545336N 0203559E to 545245N 0202645E - 545034N 0200341E then counterclockwise by arc of a circle radius of 35 KM centred at 545336N 0203559E to 543654N 0202045E - 543630N 0195924E - 545400N 0193600E
SMAA 2	400	550214N 0194219E then along the state border to 551525N 0202627E - 551154N 0202800E - then clockwise by arc of a circle radius of 35 KM centred at 545336N 0203559E to 551207N 0204216E - 550931N 0204123E then clockwise by arc of a circle radius of 30 KM centred at 545336N 0203559E to 550547N 0205429E - 551442N 0210812E then along the state border to 551406N 0212624E - 544200N 0210842E then along TMA boundary to 544137N 0205554E - 544550N 0204856E then counterclockwise by arc of a circle radius of 20 KM centred at 545336N 0203559E to 544802N 0205159E - 545336N 0203559E - 550304N 0201311E then counterclockwise by arc of a circle radius of 30 KM centred at 545336N 0203559E to 550039N 0201041E - 550518N 0195344E then counterclockwise by arc of a circle radius of 50 KM centred at 545336N 0203559E to 550053N 0195053E - 550214N 0194219E
SMAA 3	500	545034N 0200341E - 545245N 0202645E then counterclockwise by arc of a circle radius of 10 KM centred at 545336N 0203559E to 544814N 0203647E - 543712N 0203827E - 543654N 0202045E then clockwise by arc of a circle radius of 35 KM centred at 545336N 0203559E to 545034N 0200341E
SMAA 4	450	551525N 0202627E then along the state border to 551442N 0210812E - 550547N 0205429E - then counterclockwise by arc of a circle radius of 30 KM centred at 545336N 0203559E to 550931N 0204123E - 551207N 0204216E then counterclockwise by arc of a circle radius of 35 KM centred at 545336N 0203559E to 551154N 0202800E - 551525N 0202627E