

**ATC SURVEILLANCE
MINIMUM ALTITUDE CHART - ICAO**

AD ELEV

681FT

 BRG, TR AND RDL ARE MAGNETIC
ALT AND ELEV ARE IN FEET
DIST IN NAUTICAL MILES

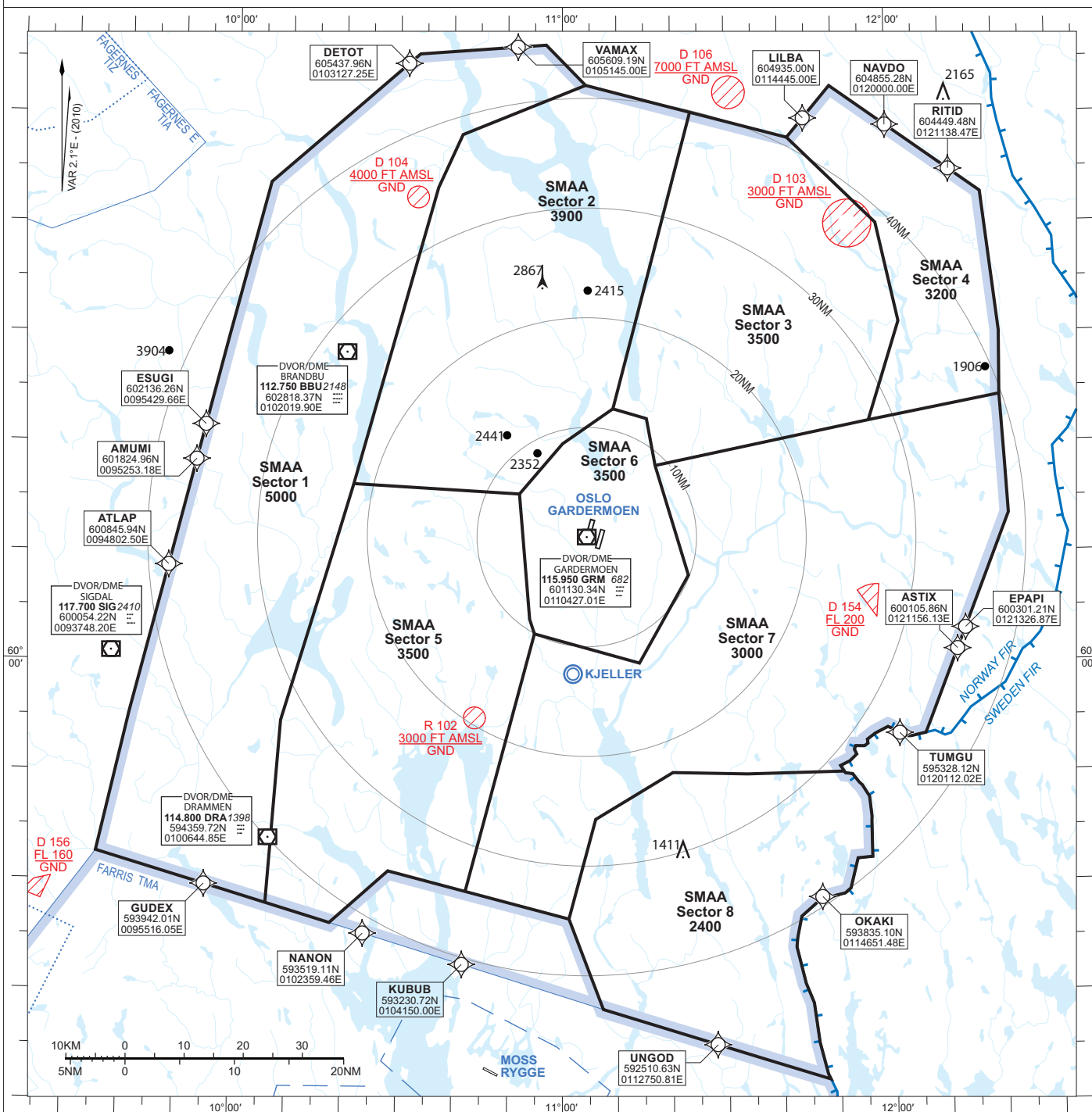
1:1000000

TA 7000

 ATIS
126.125
APP
118.475
120.450

 DIR
136.400
119.975
FIN
128.900

 TWR
118.300
120.100
GND
121.600
121.900

OSLO/GARDERMOEN
NORWAY

GENERAL INFORMATION

A Surveillance Minimum Altitude Area (SMAA) is a defined area in which the minimum safe altitudes allocated by a controller giving an ATC Surveillance service for IFR flights have been predetermined.

Altitudes shown are based on QNH.

SMAA do not constitute controlled airspace.

SMAA minimum safe altitude ensures obstacle clearance within the area concerned plus a 5.0 NM buffer area. Minimum safe altitude is determined by the highest obstacle elevation or the highest terrain elevation +20 M whichever is higher, plus safety margin of 300 M (984 FT), rounded up to the next hundred feet.

TEMPERATURE CORRECTION: Minimum safe altitudes are temperature corrected down to 0 degrees Celsius.

This chart may only be used for cross-checking of assigned altitudes whilst in receipt of an ATC Surveillance service.

COMMUNICATION FAILURE: In accordance with procedures described in AIP Norway ENR 1.3, para 5.

Coordinates for SMAA's are listed overleaf

CHANGES: AIRSPACE REFERENCES REMOVED.

SURVEILLANCE MINIMUM ALTITUDE COORDINATES	
ENGM SMAA Sector 1	MIN ALT: 5000 FT
605620N 0105700E - 605240N 0110420E- 604810N 0104130E - 604320N 0103700E- 601617N 0102144E - 595440N 0100850E- 593801N 0100625E- 594235N 0093544E- 604345N 0100600E 605530N 0103330E - (605620N 0105700E)	
ENGM SMAA Sector 2	MIN ALT: 3900 FT
605240N 0110420E- 605011N 0112344E- 602310N 0110917E- 602000N 0110000E- 601525N 0105207E - 601617N 0102144E- 604320N 0103700E- 604810N 0104130E- (505240N 0110420E)094253E)	
ENGM SMAA Sector 3	MIN ALT: 3500 FT
605011N 0112344E- 604750N 0114145E- 604000N 0115800E- 603100N 0120200E- 602200N 0115615E- 601800N 0111700E- 602216N 0111525E- 602310N 0110917E – (605011N 0112344E)	
ENGM SMAA Sector 4	MIN ALT: 3200 FT
605230N 0114945E- 604245N 0121730E- 603000N 0122030E- 602414N 0122022E- 602200N 0115615E - 603100N 0120200E- 604000N 0115800E – (605230N 0114945E)	
ENGM SMAA Sector 5	MIN ALT: 3500 FT
601617N 0102144E- 601525N 0105207E- 600400N 0105400E- 600240N 0105453E- 593910N 0104227E - 594100N 0102830E- 593615N 0101800E- 593801N 0100625E- 595440N 0100850E –(601617N 0102144E)	
ENGM SMAA Sector 6	MIN ALT: 3500 FT
602310N 0110917E- 602216N 0111525E- 601800N 0111700E- 600800N 0112300E- 600000N 0111400E - 600240N 0105453E- 600400N 0105400E- 601525N 0105207E- 602000N 0110000E – (602310N 0110917E)	
ENGM SMAA Sector 7	MIN ALT: 3000 FT
602414N 0122022E- 601325N 0122140E- 595326N 0120558E- along the Swedish border to- 595000N 0115058E - 594950N 0113330E- 595000N 0112000E- 594545N 0110600E- 593640N 0110110E- 593910N 0104227E – 6002602414N 0122022E 40N 0105453E- 600000N 01114'0E- 600800N 0112300E- 601800N 0111700E- 602200N 0115615E – (602414N 0122022E)	
ENGM SMAA Sector 8	MIN ALT: 2400 FT
595000N 0112000E- 594950N 0113330E- 595000N 0115058E- along the Swedish border to – 592200N 0114740E - 592333N 0113800E- 592825N 0110720E- 593640N 0110110E- 594545N 0110600E – (595000N 0112000E)	