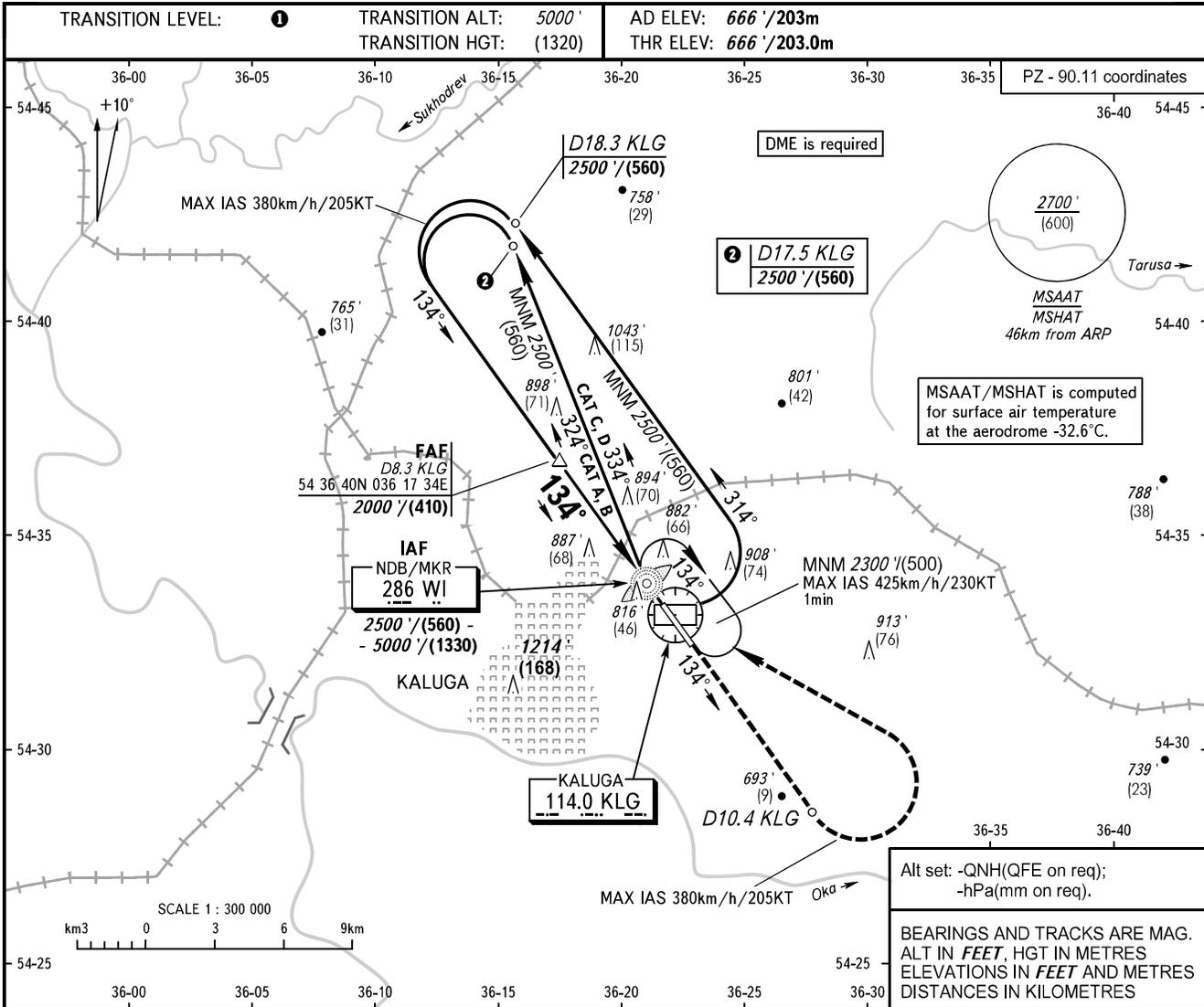


**INSTRUMENT
APPROACH
CHART - ICAO**

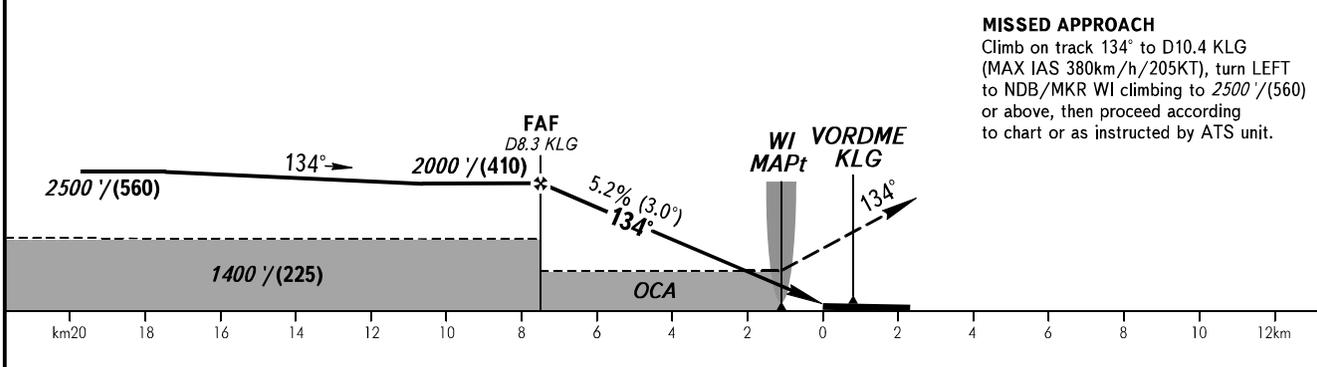
KALUGA TOWER 120.300

**KALUGA, RUSSIA
GRABTSEVO
NDB X RWY 13**



Alt set: -QNH(QFE on req);
-hPa(mm on req).

BEARINGS AND TRACKS ARE MAG.
ALT IN FEET, HGT IN METRES
ELEVATIONS IN FEET AND METRES
DISTANCES IN KILOMETRES



MISSED APPROACH
Climb on track 134° to D10.4 KLG
(MAX IAS 380km/h/205KT), turn LEFT
to NDB/MKR WI climbing to 2500'/(560)
or above, then proceed according
to chart or as instructed by ATS unit.

OCA(H)		A	B	C	D
Straight-in Approach		1150' (480') (150)	1150' (480') (150)	1150' (480') (150)	1150' (480') (150)
Circling		1180' (520') (160)	1210' (550') (170)	1310' (650') (200)	1360' (700') (220)

1 TRANSITION LEVEL:
- FL060 when QNH is 1013 hPa (760mm mercury column) or above;
- FL070 when QNH is 977 hPa (733mm mercury column) or above,
but less than 1013 hPa (760mm mercury column);
- FL080 when QNH is less than 977 hPa (733mm mercury column).

WARNING:
1. Visual manoeuvring west of AD is PROHIBITED.
2. MAPt at NDB/MKR WI. Timing not authorized
for defining MAPt.

GROUND SPEED	km/h	150	180	210	240	270	300	330	360	390
	kt	81	97	113	130	146	162	178	194	211
RATE OF DESCENT	m/s	2.2	2.6	3.0	3.5	3.9	4.3	4.8	5.2	5.6
	ft/min	427	512	597	682	768	853	938	1024	1109

CHANGE: New chart