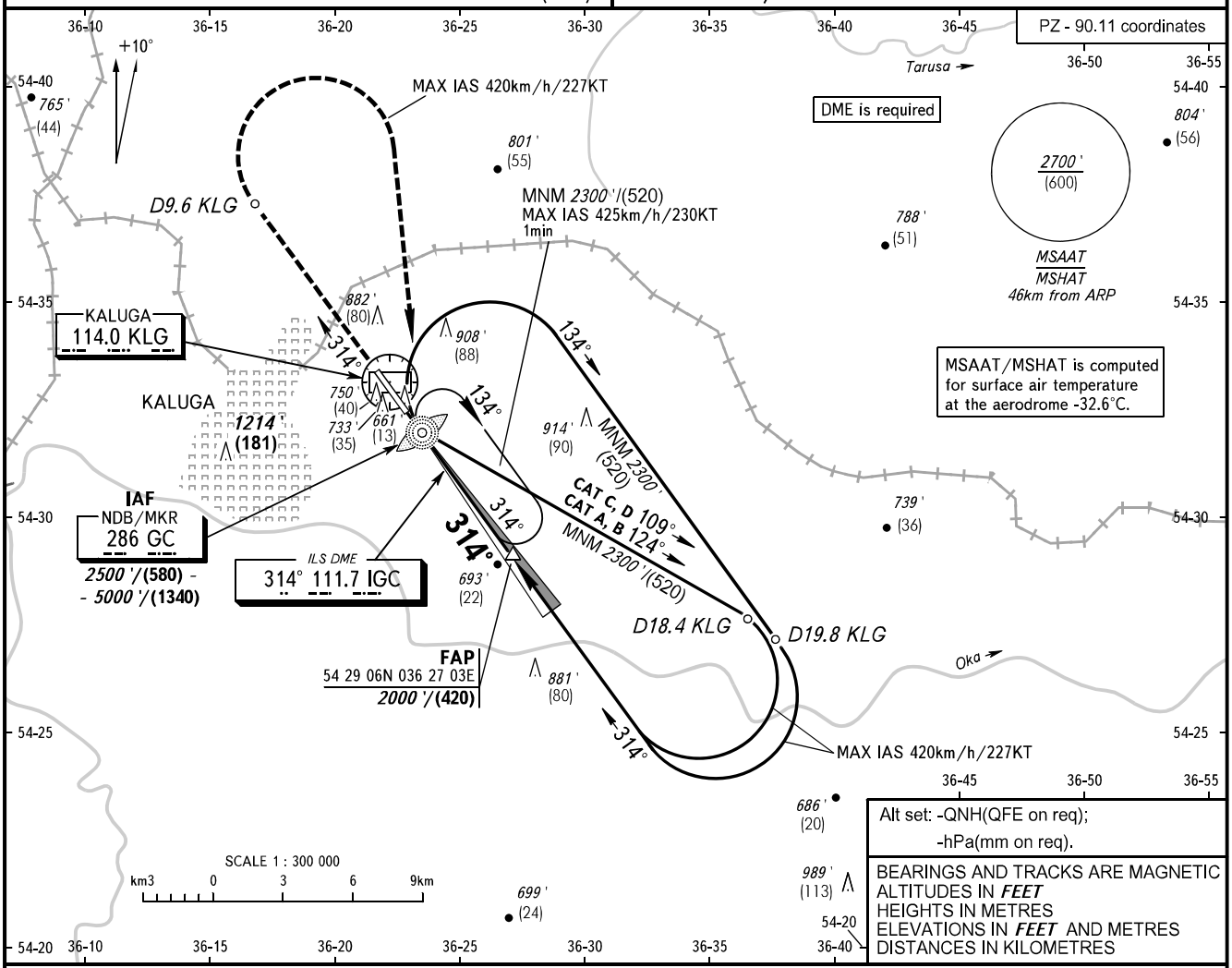
INSTRUMENT APPROACH CHART - ICAO

KALUGA TOWER **120.300**

KALUGA, RUSSIA
GRABTSEVO
ILS Y CAT I RWY 31

TRANSITION LEVEL: ❶
TRANSITION ALT: *5000'*
TRANSITION HGT: (1320)

AD ELEV: ***666'*/203m**
THR ELEV: ***620'*/189.0m**

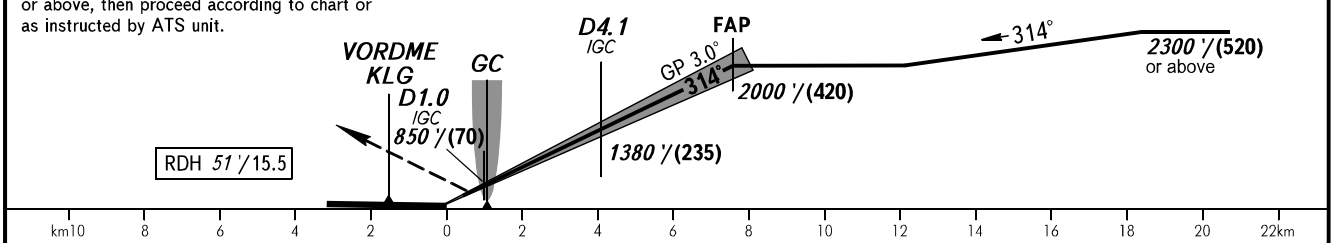


Alt set: -QNH(QFE on req);
-hPa(mm on req).

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

MISSED APPROACH

Climb straight ahead to D9.6 KLG (MAX IAS 420km/h/227KT), turn RIGHT to NDB/MKR GC climbing to *2500'*/(580) or above, then proceed according to chart or as instructed by ATS unit.



OCA(H)		A	B	C	D
Straight-in Approach	**CAT I**	*761'(141')* (43)	*773'(153')* (47)	*783'(163')* (50)	*797'(177')* (54)
Circling		*1180'(520')* (160)	*1210'(550')* (170)	*1310'(650')* (200)	*1360'(700')* (220)

❶ 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. Zero range of DME IGC is indicated at RWY 31 THR.

314° 134°

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