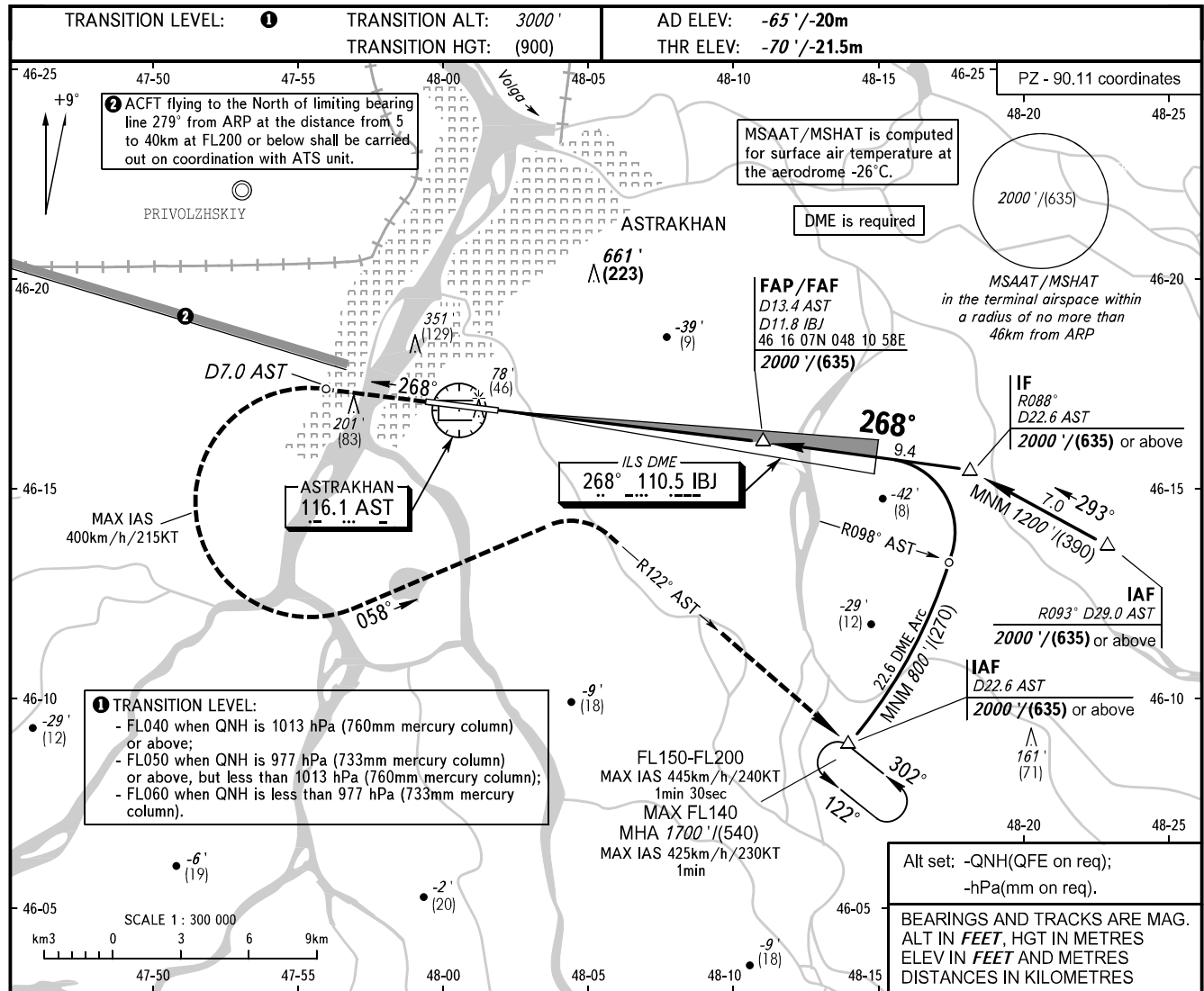


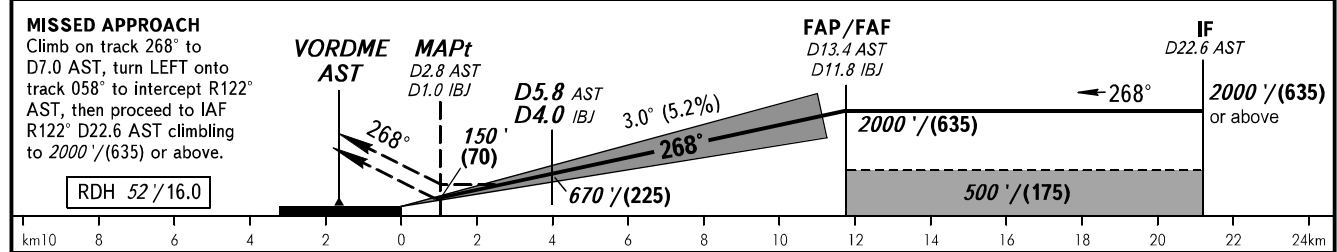
**INSTRUMENT  
APPROACH  
CHART - ICAO**

RADAR 120.600  
TOWER 118.600

**ASTRAKHAN, RUSSIA  
ASTRAKHAN  
ILS Y CAT I, LOC Y RWY 27**



DME AST	3.8	5.8	7.8	9.8	11.8
DME IBJ	2.0	4.0	6.0	8.0	10.0
ALTITUDE/HEIGHT	320'/(120)	670'/(225)	1010'/(330)	1350'/(435)	1690'/(540)



OCA(H)		A	B	C	D
Straight-in	CAT I	130' (200')	130' (200')	130' (200')	130' (200')
	LOC	280' (350')	280' (350')	280' (350')	280' (350')
Approach	CAT I	85 (110)	85 (110)	85 (110)	85 (110)
	LOC	85 (110)	85 (110)	85 (110)	85 (110)
Circling	CAT I	380' (450')	500' (570')	600' (670')	630' (700')
	LOC	120 (140)	155 (175)	185 (205)	195 (215)

GROUND SPEED	km/h	150	180	210	240	270	300	330	360
	kt	81	97	113	130	146	162	178	195
RATE OF DESCENT	m/s	2.2	2.6	3.0	3.5	3.9	4.3	4.8	5.2
	ft/min	427	512	597	682	768	853	938	1024