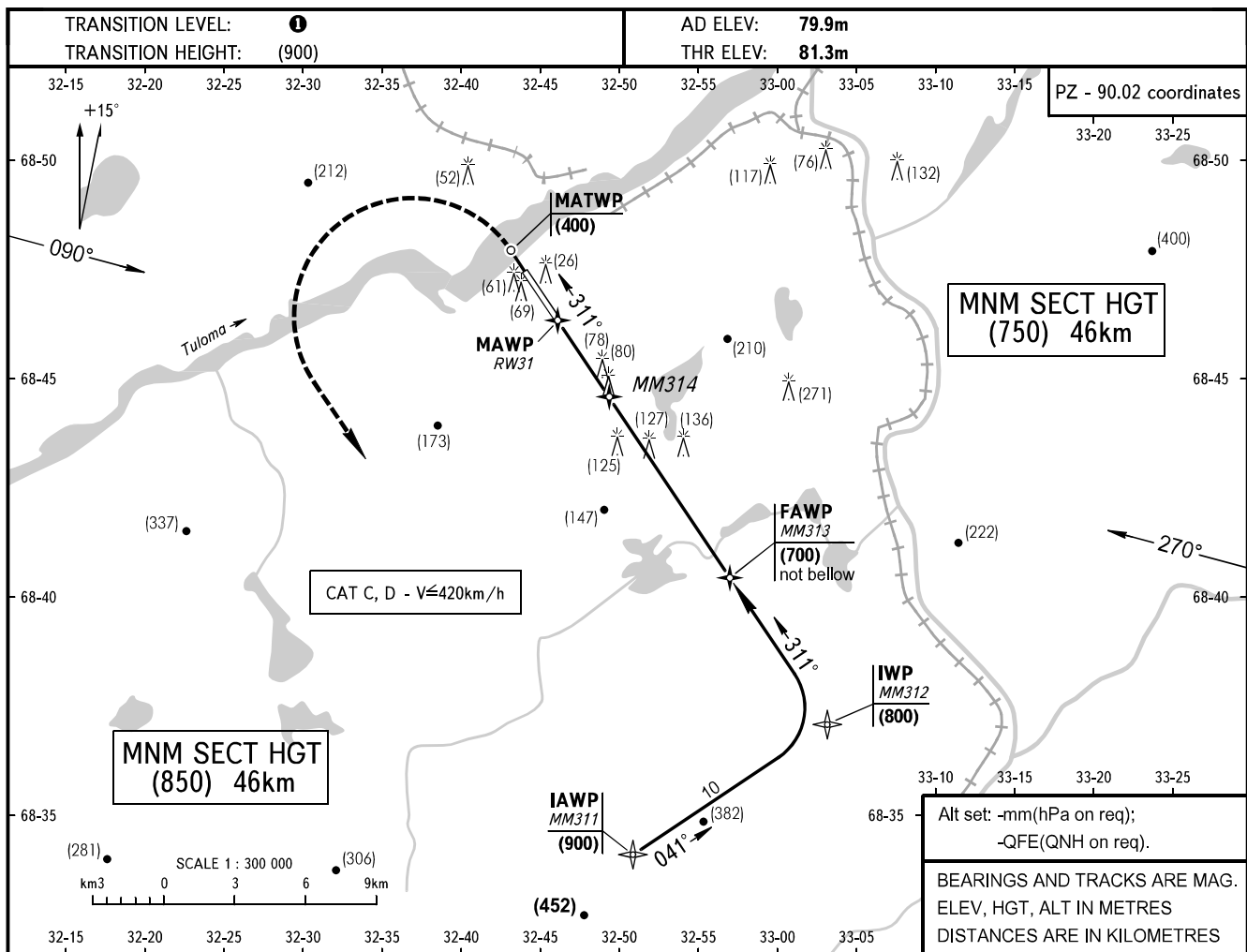


**INSTRUMENT  
APPROACH  
CHART - ICAO**

TOWER **120.3**

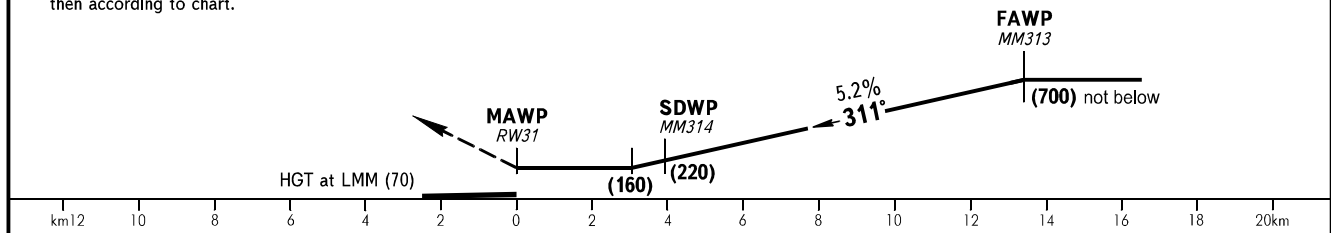
**MURMANSK, RUSSIA**  
MURMANSK  
GNSS RWY 31



THR DISTANCE	10	9	8	7	6	5	4	3	2	1
ALTITUDE	620	565	515	460	410	360	305	255	200	150
HEIGHT	(535)	(485)	(430)	(380)	(330)	(275)	(225)	(175)	(120)	(70)

**MISSED APPROACH**

Climb on track 311° to (400), then turn LEFT to MM311, then according to chart.



OCA/H		A	B	C	D
Straight-in	<b>GNSS</b>	241(160)	241(160)	241(160)	241(160)
	Approach				

**1** TRANSITION LEVEL:  
- FL050 when atmospheric pressure is 753mm mercury column or above;  
- FL060 when atmospheric pressure is 753-726mm mercury column;  
- FL070 when atmospheric pressure is 726mm mercury column or less.

GROUND SPEED	km/h	150	180	210	240	270	300	330	360	390	420	450
LOM-THR 3940m	min:sec	1.35	1.19	1.08	1.00	0.53	0.47	0.44	0.39	0.36	0.34	0.32
RATE OF DESCENT	m/s	2.2	2.6	3.9	3.5	3.9	4.3	4.8	5.2	5.6	6.1	6.5