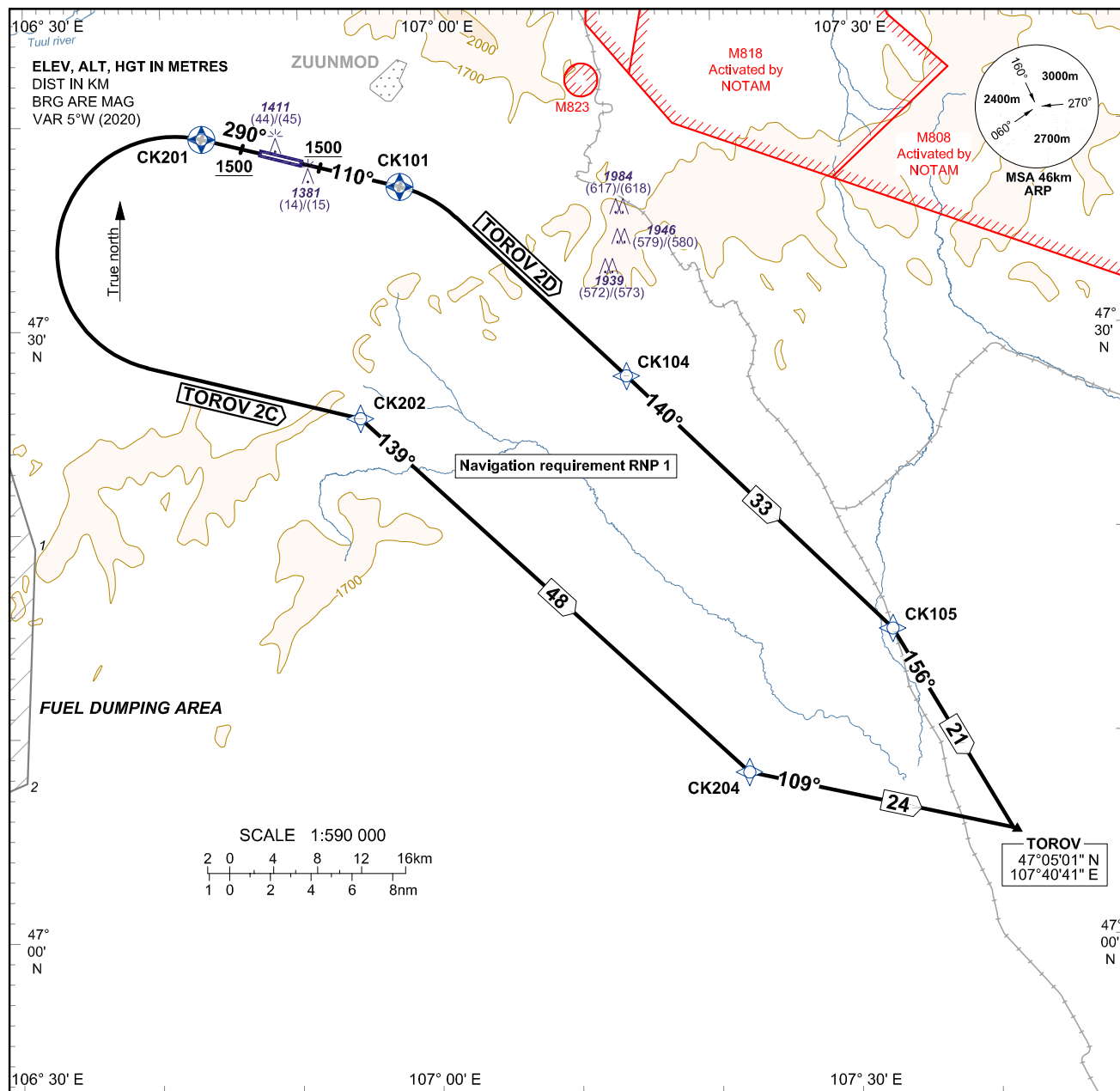


STANDARD DEPARTURE CHART -
INSTRUMENT (SID) - ICAO

AERODROME ELEV - 1367
HEIGHTS RELATED TO
THR RWY 11 - ELEV 1367
THR RWY 29 - ELEV 1366

APP 120
TWR 129

ULAANBAATAR/Chinggis Khaan (ZMCK)
RNAV(GNSS) RWY 11/29
TOROV 2C/2D



TOROV DEPARTURE

TRANSITION ALTITUDE 3900
TRANSITION ALTITUDE 4200 (QNH ≥ 1031 hPa)

TOROV 2C:

Climb RWY HDG at or above **ALT 1500**, direct to **CK201**, turn left direct to **CK202**, to **CK204**, to **TOROV**.

TOROV 2D:

Climb RWY HDG at or above **ALT 1500**, direct to **CK101**, turn right direct to **CK104**, to **CK105**, to **TOROV**.

Note: TOROV 2D: 4.1% climb gradient required up to **ALT 2000**.

COORDINATES OF DUMPING AREA

Points	LAT (N)	LONG (E)
1	47°19'53"	106°30'51"
2	47°08'25"	106°29'58"
3	47°03'47"	106°13'47"
4	47°09'23"	106°01'43"
5	47°14'52"	105°58'22"
6	47°24'31"	106°04'45"
7	47°28'19"	106°15'47"
8	47°28'59"	106°26'54"

RVR	550m									
Ground Speed	km/h	205	240	280	315	350	390	425	460	500
	kt	110	130	150	170	190	210	230	250	270
Rate of Climb at 3.3%	m/s	1.88	2.20	2.57	2.89	3.21	3.57	3.90	4.22	4.58
	ft/min	368	434	501	568	635	702	769	835	902
Rate of Climb at 4.1%	m/s	2.33	2.73	3.19	3.59	3.99	4.44	4.84	5.24	5.69
	ft/min	457	540	623	706	789	872	955	1038	1121

CHANGE: MSA and TA changed; Editorial.