

**KOTA KINABALU FLIGHT INFORMATION REGION (KK FIR)
ROUTE AIR NAVIGATION SERVICES (RANS) CHARGES
CHARGEABLE DISTANCES**

1. INTRODUCTION

- 1.1 The purpose of this circular is to notify all relevant operators and aviation partners regarding RANS chargeable distances for flights operating within KK FIR due to implementation of Performance Based Navigation (PBN) concept airspace structure. New RNAV routes being introduced, some ATS/RNAV routes revised and few ATS routes have been withdrawn.
- 1.2 All flights entering the airspace within the boundaries of Kota Kinabalu Flight Information Regions (except exempted flights in GEN 4.2 para 4.2.6) are subjected to air navigation services charges which shall be payable to the Authority at the rates specified in the Civil Aviation (Fees and Charges) Regulations 2016.
- 1.3 The distance calculations are based on Flight Planning Requirement for Aircraft Operating in Kota Kinabalu FIR.

2. DISTANCE CHARGEABLE

- 2.1 The chargeable distances are as indicated in ATTACHMENT 1 - 4
- a) Attachment 1: Departing and Landing at Airports within Kota Kinabalu FIR
 - b) Attachment 2: Flights to Destination outside Kota Kinabalu FIR
 - c) Attachment 3: Flights Entering Kota Kinabalu FIR from Adjacent FIRs
 - d) Attachment 4: Flights Overflying Kota Kinabalu FIR

3. IMPLEMENTATION DATE

- 3.1 The chargeable distances will become effective from 1 Jan 2022.

4. FURTHER INFORMATION / QUERIES

For further information or inquiries, please direct it to: query.rans@caam.gov.my.

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1. Flights Departing and Landing at Airports within Kota Kinabalu FIR.

From	To	Route	Distance
WBGB	WBGG	G460 VKG	197
	WBGM	W422 VMI DCT WBGM	116
	WBGR	W422 VMI	94
	WBGS	G460 VSI	85
	WBGW	W422 VMI DCT WBGW	183
	WBKD	G460 BRU M646 VJN W460 LHD	394
	WBKK	G460 BRU M646 VJN	247
	WBKL	G460 VLB	187
	WBKS	G460 BRU W461 VSN	355
		G460 BRU M646 VJN A341 VSN	368
	WBKT	G460 BRU M646 VJN W420 KABDU DCT WBKT	323
	WBKW	G460 BRU W453 LATIL W441 VTW	355
	WBGJ	W422 VMI W450 VLG	160
	WBMU	W448 VZU	121
	WBSB	G460 BRU	158

From	To	Route	Distance
WBGG	WBGB	G460 VBU	197
	WBGM	G580 VMI DCT WBGM	304
	WBGR	G580 VMI	282
	WBGS	G460 VSI	115
		W457 VSI	122
	WBGW	G580 VMI DCT WBGW	371
	WBKD	G580 BRU W453 LATIL W441 VTW W424 LHD	500
		G580 BRU M646 VJN W460 LHD	584
	WBKK	G580 BRU M646 VJN	437
	WBKL	G580 BRU G460 VLB	377
	WBKS	G580 BRU W461 VSN	545
		G580 BRU M646 VJN A341 VSN	558
	WBKT	G580 BRU M646 VJN W420 KABDU DCT WBKT	486
	WBKW	G580 BRU W453 LATIL W441 VTW	545
	WBGJ	G580 VMI W450 VLG	348
	WBMU	G460 VBU W448 VZU	315
	WBTM	DCT WBTM	67
	WBSB	G580 BRU	348

From	To	Route	Distance
WBGGM	WBGB	DCT VMI W422 VBU	118
	WBGG	DCT VMI G580 VKG	306
	WBGR	DCT VMI	25
	WBGS	DCT VMI W422 VBU G460 VSI	200
	WBGW	DCT VMI DCT WBGW	114
	WBKD	DCT VMI G580 BRU M646 VJN W460 LHD	327
	WBKK	DCT VMI G580 BRU M646 VJN	180
	WBKL	DCT VMI G580 BRU G460 VLB	120
	WBKS	DCT VMI G580 BRU W461 VSN	288
	WBKT	DCT VMI G580 BRU M646 VJN W420 KABDU DCT WBKT	256
	WBKW	DCT VMI G580 BRU W453 LATIL W441 VTW	288
	WBGJ	DCT VMI W450 VLG	91
	WBMU	DCT VZU	37
	WBSB	DCT VMI G580 BRU	96
	WBGA	DCT WBGA DCT	88
	WBGI	DCT WBGI DCT	48
WBGL	DCT WBGL DCT	60	

From	To	Route	Distance
WBGRR	WBGB	W422 VBU	95
	WBGG	G580 VKG	283
	WBGGM	DCT VMI DCT WBGGM	24
	WBGS	W422 VBU G460 VSI	177
		W422 VBU W458	181
	WBGW	DCT VMI DCT WBGW	91
	WBKD	G580 BRU W453 LATIL W441 VTW W424 LHD	308
		G580 BRU M646 VJN W460 LHD	303
	WBKK	G580 BRU M646 VJN	157
	WBKL	G580 BRU G460 VLB	97
	WBKS	G580 BRU W461 VSN	265
		G580 BRU M646 VJN A341 VSN	278
		G580 BRU M646 VJN W420 KABDU W463 VSN	268
		G580 BRU M646 VJN W420 VSN	328
	WBKT	G580 BRU M646 VJN W420 DCT WBKT	233
	WBKW	G580 BRU W453 LATIL W441 VTW	265
	WBGJ	DCT VMI W450 VLG	68
	WBMU	DCT VMI W449 VZU	53
	WBSB	G580 BRU	68
	WBGZ	DCT VMI DCT WBGZ	96
	WBGK	G580 SARVO DCT WBGK	149
	WBGF	DCT VMI DCT WBGF	89
	WBGA	DCT VMI DCT WBGA	79
	WBGI	DCT VMI DCT WBGI	69
WBGQ	DCT VMI DCT WBGQ	101	
WBTM	DCT VMI DCT WBTM	213	

From	To	Route	Distance
WBGS	WBGB	G460 VBU	85
		W458 VBU	89
	WBGG	G460 VKG	115
		W457 VKG	122
	WBGM	G460 VBU W422 VMI DCT WBGM	198
	WBGR	G460 VBU W422 VMI	176
	WBGW	G460 VBU W422 VMI DCT WBGW	265
	WBKD	G460 BRU M646 VJN W460 LHD	476
	WBKK	G460 BRU M646 VJN	329
	WBKL	G460 BRU G460 VLB	269
	WBKS	G460 BRU W461 VSN	437
	WBKT	G460 BRU M646 VJN W420 DCT WBKT	405
	WBKW	G460 BRU W453 LATIL W441 VTW	437
	WBGJ	G460 VBU W422 VMI W450 VLG	242
	WBMU	G460 VBU W448	203
WBSB	G460 BRU	240	

From	To	Route	Distance
WBGW	WBGB	DCT VMI W422 VBU	185
	WBGG	DCT VMI G580 VKG	373
	WBGM	DCT VMI DCT WBGM	114
	WBGR	DCT VMI	92
	WBGS	DCT VMI W422 VBU G460 VSI	267
	WBKD	DCT VJN W460 LHD	224
	WBKK	DCT VJN	75
	WBKL	DCT BRU G460 VLB	65
	WBKS	DCT BRU W461 VSN	233
	WBKT	DCT BRU M646 VJN W420 KABDU DCT WBKT	201
	WBKW	DCT BRU W4453 LATIL W441 VTW	234
	WBGJ	DCT VLG	32
	WBMU	DCT VZU	62
	WBSB	DCT BRU	36
	WBGQ	DCT WBGQ	57

From	To	Route	Distance
WBKD	WBGB	W460 VJN M646 BRU G460 VBU	395
		W460 VJN G460 VBU	396
		W424 VTW W441 LATIL W453 BRU G460 VBU	399
	WBGG	W460 VJN M646 BRU G580 VKG	585
		W460 VJN M646 BRU G460 VKG	589
		W460 VJN G460 VKG	590
		W424 VTW W441 LATIL W453 BRU G460 VKG	593
	WBGM	W460 VJN M646 BRU VMI DCT WBGM	326
		W460 VJN G460 BRU DCT WBGM	299
	WBGR	W460 VJN M646 BRU G580 VMI	304
		W460 VJN G460 BRU G580 VMI	305
	WBGS	W460 VJN M646 BRU G460 VSI	477
		W460 VJN G460 VSI	478
		W424 VTW W441 LATIL W453 BRU G460 VSI	481
	WBGW	W460 VJN DCT WBGW	223
	WBKK	W460 VJN	151
	WBKL	W460 VJN G460 VLB	209
		W424 VTW W441 VLB	227
	WBKS	W421 VSN	57
	WBKT	W421 VSN W420 DCT WBKT	152
	WBKW	W424 VTW	47
	WBGJ	W460 VJN W451 VLG	241
	WBMU	W460 VJN M646 BRU R223 BUTAX W452 VZU	293
W424 VTW W441 LATIL W453 BRU R223 BUTAX W452 VZU		296	
WBSB	W424 VTW W441 LATIL W453 BRU	250	

From	To	Route	Distance
WBKK	WBGB	M646 BRU G460 VBU	247
		G460 VBU	248
	WBGG	M646 BRU G580 VKG	437
		G460 BRU G460 VKG	440
	WBGM	M646 BRU G580 BRU VMI DCT WBGM	178
		M646 BRU G580 VMI DCT WBGM	178
		G460 BRU G580 DCT WBGM	179
	WBGR	M646 BRU G580 VMI	156
		G460 BRU G580 VMI	156
	WBGS	M646 BRU G460 VSI	329
		G460 VSI	330
	WBGW	DCT WBGW	75
	WBKD	W460 LHD	150
	WBKL	G460 VLB	61
	WBKS	A341 VSN	124
		W420 KABDU W463 VSN	152
		W420 VSN	174
	WBKT	W420 DCT WBKT	79
	WBKW	W425 VTW	161
	WBGJ	W451 VLG	93
	WBMU	M646 BRU R223 BUTAX W452 VZU	145
	WBSB	M646 BRU	98

From	To	Route	Distance
WBKL	WBGB	G460 VBU	188
	WBGG	G460 BRU G580 VKG	378
		G460 VKG	380
	WBGM	G460 BRU VMI DCT WBGM	119
		G460 BRU G580 VMI DCT WBGM	119
	WBGR	G460 BRU G580 VMI	97
	WBGS	G460 VSI	270
	WBGW	DCT WBGW	29
	WBKD	W441 REKOS W461 VTW W424 LHD	228
		G460 VJN W420 LHD	209
	WBKK	G460 VJN	63
	WBKS	W441 REKOS W461 VSN	179
		G460 VJN A341 VSN	183
	WBKT	G460 VJN W420 DCT WBKT	139
	WBKW	W441 VTW	185
	WBGJ	DCT VLG	35
WBMU	G460 BRU R223 BUTAX W452 VZU	87	
WBSB	G460 VLB	39	

From	To	Route	Distance
WBKS	WBGB	A341 VJN G460 VBU	370
		A341 VJN M646 BRU G460 VBU	369
		W461 BRU G460 VBU	356
	WBGG	A341 VJN G460 BRU G580 VKG	498
		A341 VJN M646 BRU G460 VKG	497
		W461 BRU G580 VKG	658
	WBGM	W461 BRU G460 VKG	550
		A341 VJN G460 BRU VMI DCT WBGM	301
		A341 VJN M646 BRU G580 DCT WBGM	300
	WBGR	W461 BRU VMI DCT WBGM	287
		A341 VJN G460 BRU G580 VMI	279
		A341 VJN M646 BRU G580 VMI	278
	WBGS	W461 BRU G580 VMI	265
		A341 VJN G460 VSI	452
		A341 VJN M646 BRU G460 VSI	451
	WBGW	W461 BRU G460 VSI	438
		A341 VJN DCT WBGW	197
	WBKD	W421 LHD	57
	WBKK	A341 VJN	125
		W420 VJN	175
		W463 KABDU W420 VJN	153
	WBKL	A341 VJN G460 VLB	183
		W461 REKOS W441 VLB	178
	WBKT	W420 DCT WBKT	97
	WBKW	W421 LHD W424 VTW	102
	WBGJ	A341 VJN W451 VLG	215
		W461 BRU DCT VLG	212

WBKS	WBMU	A341 VJN M646 BRU R223 BUTAX W452 VZU	267
		W461 BRU R223 BUTAX W452 VZU	254
	WBSB	W461 BRU	207

From	To	Route	Distance
WBKT	WBGB	W420 VJN G460 VBU	325
	WBGG	W420 VJN G460 VKG	519
	WBGM	W420 VJN G460 BRU VMI DCT WBGM	256
	WBGR	W420 VJN G460 BRU G580 VMI	234
	WBGS	W420 VJN G460 VSI	407
	WBGW	W420 VJN DCT WBGW	152
	WBKD	W420 VSN W421 LHD	152
	WBKK	W420 VJN	80
	WBKL	W420 VJN G460 VLB	138
	WBKS	W420 VSN	97
	WBKW	W420 VSN W421 LHD W424 VTW	197
	WBGJ	W420 VJN W451 VLG	170
	WBMU	W420 VJN M646 BRU R223 BUTAX W452 VZU	222
	WBSB	W420 VJN M646 BRU	175
	WBSB	W420 VJN G460 BRU	176

From	To	Route	Distance
WBKW	WBGB	W441 LATIL W453 BRU G460 VBU	355
	WBGG	W441 LATIL W453 BRU G460 VKG	549
	WBGM	W441 LATIL W453 BRU VMI DCT WBGM	286
	WBGR	W441 LATIL W453 BRU G580 VMI	264
	WBGS	W441 LATIL W453 BRU G460 VSI	437
	WBGW	W441 LATIL W453 BRU DCT LWY	232
	WBKD	W424 LHD	46
	WBKK	W425 VJN	161
	WBKL	W441 VLB	184
	WBKS	W424 LHD W421 VSN	101
	WBKT	W425 VJN W420 DCT WBKT	237
	WBGJ	W441 LATIL W453 BRU DCT VLG	210
	WBMU	W441 LATIL W453 BRU R223 BUTAX W452 VZU	159
	WBSB	W441 LATIL W453 BRU	206

From	To	Route	Distance
WBGJ	WBGB	W450 VMI W422 VBU	161
	WBGG	W450 VMI G580 VKG	349
	WBGGM	W450 VMI DCT WBGGM	90
	WBGR	W450 VMI	68
	WBGS	W450 VMI W422 VBU G460 VSI	243
	WBGW	DCT WBGW	26
	WBKD	W451 VJN W460 LHD	241
	WBKK	W451	94
	WBKL	DCT VLB	35
	WBKS	DCT BRU W461 VSN	212
	WBKT	DCT BRU M646 VJN W420 KABDU DCT WBKT	181
	WBKW	DCT BRU W453 LATIL W441 VTW	212
	WBMU	DCT BUTAX W452	63
	WBSB	DCT BRU	15

From	To	Route	Distance
WBMU	WBGB	W448	122
	WBGG	W448 VBU G460 VKG	316
	WBGGM	DCT WBGGM	36
	WBGR	W449	53
	WBGS	W448 VBU G460 VSI	204
	WBGW	DCT WBGW	61
	WBKD	W452 BUTAX R223 BRU M646 VJN W460 LHD	293
	WBKK	W452 BUTAX R223 BRU M646 VJN	146
	WBKL	W452 BUTAX R223 BRU G460 VLB	86
	WBKS	W452 BUTAX R223 BRU W461 VSN	254
	WBKT	W452 BUTAX R223 BRU M646 VJN W420 KABDU DCT WBKT	222
	WBKW	W452 BUTAX R223 BRU W453 LATIL W441 VTW	254
	WBGJ	W452 BUTAX DCT VLG	62
	WBSB	W452 BUTAX R223 BRU	57

From	To	Route	Distance
WBSB	WBGB	G460 VBU	155
	WBGG	G580 VKG	345
		G460 VKG	347
	WBGGM	DCT WBGGM	58
	WBGR	G580 VMI	64
	WBGS	G460 VSI	237
	WBGW	DCT WBGW	31
	WBKD	W453 LATIL W441 VTW W424 LHD	246
		M646 VJN W460	241
	WBKK	M646 VJN	95
	WBKL	G460 VLB	35
	WBKS	W461 VSN	203
		M646 VJN A341 VSN	216
	WBKT	M646 VJN W420 DCT WBKT	171
	WBKW	W453 LATIL W441 VTW	203
	WBGJ	DCT VLG	11
WBMU	R223 BUTAX W452 VZU	53	

2 Flights to Destination outside Kota Kinabalu FIR

From	To	Exit	Route	Distance
WBGB	SINGAPORE FIR	KAMIN	W447 KAMIN	250
		AGOBA	G460 VKG M761 AGOBA	351
		ATETI	G460 VKG G580 ATETI	336
		OLKIT	W422 VMI W442 OLKIT	226
		ASISU	G460 BRU M768 ASISU	269
	MANILA FIR	VINIK	G460 BRU M646 VJN M522 VINIK	412
		OSANU	G460 BRU M646 VJN M646 OSANU	377
		VIMAG	G460 BRU M646 VJN A341 VIMAG	398
	JAKARTA FIR	PAPSA	G460 VKG R455 PAPSA	216
	UJUNG PANDANG FIR	AGSON	G460 BRU R223 AGSON	312
MAMOK		G460 BRU M768 MAMOK	227	
BAXAL		G460 BRU W453 LATIL W441 VTW A211 BAXAL	375	
WBGG	SINGAPORE FIR	KAMIN	W443 KAMIN	109
		AGOBA	M761 AGOBA	157
		ATETI	G580 ATETI	143
		ASISU	G580 BRU M768 ASISU	459
	MANILA FIR	VINIK	G580 BRU M646 VJN M522 VINIK	602
		OSANU	G580 BRU M646 OSANU	567
		VIMAG	G580 BRU M646 VJN A341 VIMAG	588
JAKARTA FIR	PAPSA	R455 PAPSA	22	
WBGR	SINGAPORE FIR	KAMIN	W455 DARMU M646 KAMIN	324
		AGOBA	G580 VKG M761 AGOBA	436
		ATETI	G580 ATETI	422
		OLKIT	W442 OLKIT	133
		GULIB	L517 GULIB	175
		ASISU	G580 BRU M768 ASISU	178
		DAKIX	G580 BRU L649 DAKIX	200
	MANILA FIR	VINIK	G580 BRU M646 VJN M522 VINIK	321
		OSANU	G580 BRU M646 OSANU	286
		VIMAG	G580 BRU M646 VJN A341 VIMAG	307
	JAKARTA FIR	PAPSA	G580 VKG R455 PAPSA	301
		OKADA	G580 BRU R223 BUTAX P648 OKADA	309
	UJUNG PANDANG FIR	AGSON	G580 BRU R223 AGSON	221
		MAMOK	G580 BRU M768 MAMOK	136
		BAXAL	G580 BRU W453 LATIL W441 VTW A211 BAXAL	284
WBGS	SINGAPORE FIR	KAMIN	G334 KAMIN	188
		AGOBA	W459 AGOBA SABIP	252
		ATETI	G460 VKG G580 ATETI NIMIX	254
		ASISU	G460 BRU M768 ASISU	351
	MANILA FIR	VINIK	G460 BRU M646 VJN M522 VINIK	494
		OSANU	G460 BRU M646 OSANU	459
		VIMAG	G460 BRU M646 VJN A341 VIMAG	480
	JAKARTA FIR	PAPSA	G460 VKG R455 PAPSA	134
	UJUNG PANDANG FIR	MAMOK	G460 BRU M768 MAMOK	309

WBKK	SINGAPORE FIR	KAMIN	M646 KAMIN	478	
		AGOBA	M646 BRU G580 VKG M761 AGOBA SABIP	591	
		ATETI	G460 VKG G580 ATETI	582	
			M646 BRU G580 ATETI	577	
		OLKIT	M758 OLKIT	261	
	ASISU	Y446 ASISU	164		
	MANILA FIR	VINIK	M522 VINIK	168	
		OSANU	M646 OSANU	133	
		VIMAG	A341 VSN VIMAG	154	
	JAKARTA FIR	PAPSA	M646 BRU G580 VKG R455 PAPSA	456	
			G460 VKG R455 PAPSA	461	
			M646 BRU G460 VKG R455 PAPSA	460	
		OKADA	P648 OKADA	334	
	UJUNG PANDANG FIR	AGSON	M646 BRU R223 AGSON	252	
MAMOK		M522 MAMOK	113		
BAXAL		W425 VTW A211 BAXAL	181		
WBKL	SINGAPORE FIR	KAMIN	G460 BRU M646 KAMIN	417	
		AGOBA	G460 BRU G580 VKG M761 AGOBA	531	
		ATETI	G460 BRU G580 ATETI	517	
		OLKIT	W441 DOGOG M758 OLKIT	210	
		ASISU	W441 DOGOG M768 ASISU	128	
		DAKIX	W441 AROBO L649 DAKIX	133	
	MANILA FIR	VINIK	W441 UKIBA M754 VINIK	227	
		OSANU	G460 VJN M646 OSANU	191	
			VIMAG	G460 VJN A341 VIMAG	212
			W441 W461 VSN A341 VIMAG	207	
	JAKARTA FIR	PAPSA	G460 BRU G580 VKG R455 PAPSA	396	
			G460 BRU G460 VKG R455 PAPSA	400	
		OKADA	G460 BRU R223 BUTAX P648 OKADA	280	
	UJUNG PANDANG FIR	AGSON	G460 BRU R223 AGSON	192	
		MAMOK	G460 BRU M768 MAMOK	107	
		BAXAL	W441 VTW A211 BAXAL	203	
	WBKS	SINGAPORE FIR	KAMIN	W461 BRU M646 KAMIN	585
				A341 VJN M646 KAMIN	598
			AGOBA	W461 BRU G580 VKG M761 AGOBA	699
A341 VJN M646 BRU G580 VKG M761 AGOBA				712	
ATETI			W461 BRU G580 ATETI	684	
			A341 VJN M646 BRU G580 ATETI	697	
OLKIT			A341 VJN M758 OLKIT	382	
			W461 BRU M759 OLKIT	384	
			W463 KABDU W420 VJN M758 OLKIT	410	
			W420 VJN M758 OLKIT	432	
ASISU		A341 VJN Y446 ASISU	285		
MANILA FIR		VINIK	A341 VJN M522 VINIK	289	
		OSANU	A341 VJN M646 OSANU	254	
		VIMAG	A341 VIMAG	31	
JAKARTA FIR		PAPSA	W461 BRU G460 VKG R455 PAPSA	568	
			W461 BRU G580 VKG R455 PAPSA	564	
		OKADA	A341 VJN P648 OKADA	454	

	UJUNG PANDANG FIR	AGSON	W461 BRU R223 AGSON	360
		MAMOK	A341 VJN M522 MAMOK	234
		BAXAL	W421 LHD W424 VTW A211 BAXAL	121
WBKW	SINGAPORE FIR	KAMIN	W441 LATIL W453 BRU M646 KAMIN	585
		AGOBA	W441 LATIL W453 BRU G580 VKG M761 AGOBA	698
		ATETI	W441 LATIL W453 BRU G580 ATETI	684
			W441 LATIL W453 BRU G460 VKG G580 ATETI	688
		OLKIT	W441 DOGOG M758 OLKIT	393
			W441 LATIL W453 BRU M759 OLKIT	384
			W425 VJN M758 OLKIT	419
		ASISU	W425 VJN Y446 ASISU	322
	W441 DOGOG M768 ASISU		311	
	MANILA FIR	VINIK	W425 VJN M522 VINIK	326
		OSANU	W425 VJN M646 OSANU	291
		VIMAG	W424 LHD W421 VSN A341 VIMAG	131
	JAKARTA FIR	PAPSA	W441 LATIL W453 BRU G580 VKG R455 PAPSA	564
			W441 LATIL W453 BRU G460 VKG R455 PAPSA	568
		OKADA	W441 LATIL W453 BRU R223 BUTAX P648 OKADA	448
			W425 VJN P648 OKADA	491
	UJUNG PANDANG FIR	BAXAL	A211 BAXAL	22
WBSB	SINGAPORE FIR	KAMIN	M646 KAMIN	388
		AGOBA	G580 VKG M761 AGOBA	502
		ATETI	G580 ATETI	488
		OLKIT	M759 OLKIT	187
		ASISU	M768 ASISU	120
		DAKIX	L649 DAKIK	142
	MANILA FIR	VINIK	M754 VINIK	246
		OSANU	M646 OSANU	228
		VIMAG	W461 VSN A341	236
	JAKARTA FIR	PAPSA	G580 VKG R455 PAPSA	367
		OKADA	R223 BUTAX P648 OKADA	251
	UJUNG PANDANG FIR	AGSON	R223 AGSON	163
		MAMOK	M768 MAMOK	78
		BAXAL	W453 LATIL W441 VTW A211 BAXAL	226

3 Flights Entering Kota Kinabalu FIR from Adjacent FIRs

To	From	Entry	Route	Distance
WBGB	SINGAPORE FIR	KAMIN	W447 VBU	250
		AGOBA	M761 VKG G460 VBU	351
		ATETI	G580 VKG G460 VBU	336
		OLKIT	W442 VMI W422 VBU	226
		ASISU	M768 BRU G460 VBU	269
	MANILA FIR	VINIK	M522 VJN M646 BRU G460 VBU	412
		OSANU	M646 VJN M646 BRU G460 VBU	377
		VIMAG	A341 VJN M646 BRU G460 VBU	398
	JAKARTA FIR	PAPSA	R455 VKG G460 VBU	216
	UJUNG PANDANG FIR	AGSON	R223 BRU G460 VBU	312
MAMOK		M768 BRU G460 VBU	227	
BAXAL		A211 VTW W441 LATIL W453 BRU G460 VBU	375	
WBGG	SINGAPORE FIR	KAMIN	W443 VKG	109
		AGOBA	M761 VKG	157
		ATETI	G580 VKG	143
		ASISU	M768 BRU G580 VKG	459
	MANILA FIR	VINIK	M522 VJN M646 BRU G580 VKG	602
		OSANU	M646 BRU G580 VKG	567
		VIMAG	A341 VJN M646 BRU G580 VKG	588
		PAPSA	R455 VKG	22
WBGR	SINGAPORE FIR	KAMIN	M646 DARMU W455 VMI	324
		AGOBA	M646 SABIP M761 VKG G580 VMI	436
		ATETI	G580 VMI	422
		OLKIT	W442 VMI	133
		ASISU	M768 BRU G580 VMI	178
	MANILA FIR	VINIK	M522 VJN M646 BRU G580 VMI	321
		OSANU	M646 BRU G580 VMI	286
		VIMAG	A341 VJN M646 BRU G580 VMI	307
	JAKARTA FIR	PAPSA	R455 VKG G580 VMI	301
		OKADA	P648 BUTAX R223 BRU G580 VMI	309
	UJUNG PANDANG FIR	AGSON	R223 BRU G580 VMI	221
		MAMOK	M768 BRU G580 VMI	136
BAXAL		A211 VTW W441 LATIL W453 BRU G580 VMI	284	
WBGS	SINGAPORE FIR	KAMIN	G334 VSI	188
		AGOBA	W459 VSI	252
		ATETI	G580 VKG G460 VSI	254
		ASISU	M768 BRU G460 VSI	351
	MANILA FIR	VINIK	M522 VJN M646 BRU G460 VSI	494
		OSANU	M646 BRU G460 VSI	459
		VIMAG	A341 VJN M646 BRU G460 VSI	480
	JAKARTA FIR	PAPSA	R455 VKG G460 VSI	134
	UJUNG PANDANG FIR	MAMOK	M768 BRU G460 VSI	309

WBKK	SINGAPORE FIR	KAMIN	M646 VJN	478	
		AGOBA	M761 VKG G580 BRU M646 VJN	591	
		ATETI	G580 BRU M646 VJN	577	
			G580 VKG G460 VJN	582	
		OLKIT	M758 VJN	261	
	ASISU	Y446 VJN	164		
	MANILA FIR	VINIK	M522 VJN	168	
		OSANU	M646 VJN	133	
		VIMAG	A341 VJN	154	
	JAKARTA FIR	PAPSA	R455 VKG G460 M646 VJN	460	
			R455 VKG G580 BRU M646 VJN	456	
			R455 VKG G460 VJN	461	
		OKADA	P648 VJN	334	
UJUNG PANDANG FIR	AGSON	R223 BRU M646 VJN	252		
	MAMOK	M522 VJN	113		
	BAXAL	A211 VTW W425 VJN	181		
WBKL	SINGAPORE FIR	KAMIN	M646 BRU G460 VLB	417	
		AGOBA	M761 VKG G580 BRU G460 VLB	531	
		ATETI	G580 BRU G460 VLB	517	
		OLKIT	M758 DOGOG W441 VLB	210	
		ASISU	M768 DOGOG W441 VLB	128	
	MANILA FIR	VINIK	M754 UKIBA W441 VLB	227	
			M522 VJN G460 VLB	226	
		OSANU	M646 VJN G460 VLB	191	
		VIMAG	A314 VSN W461 W441	207	
			A341 VJN G460 VLB	212	
	JAKARTA FIR	PAPSA	R455 VKG BRU VLB	400	
			R455 VKG G580 BRU G460 VLB	396	
		OKADA	P648 BUTAX R223 BRU G460 VLB	280	
	UJUNG PANDANG FIR	AGSON	R223 BRU G460 VLB	192	
		MAMOK	M768 BRU G460 VLB	107	
		BAXAL	A211 VTW W441 VLB	203	
	WBKS	SINGAPORE FIR	KAMIN	M646 BRU W461 VSN	585
				M646 VJN A341 VSN	598
			AGOBA	M761 VKG G580 BRU W461 VSN	698
				M761 VKG G580 BRU M646 VJN A341 VSN	712
ATETI			G580 BRU W461 VSN	684	
			G580 BRU M646 VJN A341 VSN	697	
OLKIT			M758 VJN A341 VSN	382	
			M759 BRU W461 VSN	384	
			M758 VJN W420 KABDU W463 VSN	410	
			M758 VJN W420 VSN	432	
ASISU		Y446 VJN A341 VSN	285		
MANILA FIR		VINIK	M522 VJN A341 VSN	289	
		OSANU	M646 VJN A341 VSN	254	
		VIMAG	A341 VSN	31	
JAKARTA FIR		PAPSA	R455 VKG G580 BRU W461 VSN	564	
			R455 VKG G460 BRU W461 VSN	568	
OKADA	P648 VJN A341 VSN	454			

	UJUNG PANDANG FIR	AGSON	R223 BRU W461 VSN	360
		MAMOK	M522 VJN A341 VSN	234
		BAXAL	A211 VTW W424 LHD W421 VSN	121
WBKW	SINGAPORE FIR	KAMIN	M646 BRU W453 LATIL W441 VTW	585
		AGOBA	M761 VKG G580 BRU W453 LATIL W441 VTW	698
		ATETI	G580 VKG G460 BRU W453 LATIL W441 VTW	688
			G580 BRU W453 LATIL W441 VTW	684
		OLKIT	M759 BRU W453 LATIL W441 VTW	384
			M758 VJN W425 VTW	419
			M758 W441 VTW	393
	ASISU	Y446 VJN W425 VTW	322	
		M768 DOGOG W441 VTW	311	
	MANILA FIR	VINIK	M522 VJN W425 VTW	326
		OSANU	M646 VJN W425 VTW	291
		VIMAG	A341 VSN W421 LHD W424 VTW	131
	JAKARTA FIR	PAPSA	R455 VKG G460 BRU W453 LATIL W441 VTW	568
			R455 VKG G580 BRU W453 LATIL W441 VTW	564
		OKADA	P648 VJN W425 VTW	491
	P648 BUTAX R223 BRU W453 LATIL W441		448	
UJUNG PANDANG FIR	BAXAL	A211 VTW	22	
WBSB	SINGAPORE FIR	KAMIN	M646 BRU	388
		AGOBA	M761 VKG G580 BRU	502
		ATETI	G580 BRU	488
		OLKIT	M759 BRU	187
		ASISU	M768 BRU	120
	MANILA FIR	VINIK	M754 BRU	246
		OSANU	M646 BRU	228
		VIMAG	A341 VSN W461 BRU	236
	JAKARTA FIR	PAPSA	R455 VKG G580 BRU	367
		OKADA	P648 BUTAX R223 BRU	251
	UJUNG PANDANG FIR	AGSON	R223 BRU	163
		MAMOK	M768 BRU	78
		BAXAL	A211 VTW W441 LATIL W453 BRU	226

4 Flights Overflying Kota Kinabalu FIR

From	To	Entry	Exit	Route	Distance
SINGAPORE FIR	MANILA FIR	KAMIN	VINIK	M646 BRU M754 VINIK	624
			OSANU	M646 OSANU	606
			VIMAG	M646 BRU W461 VSN A341 VIMAG	614
		AGOBA	VINIK	M761 VKG G580 BRU M754 VINIK	696
			OSANU	M761 VKG G580 BRU M646 OSANU	678
			VIMAG	M761 VKG G580 BRU M646 VJN A341 VIMAG	699
		ATETI	VINIK	G580 BRU M754 VINIK	692
			OSANU	G580 BRU M646 OSANU	674
			VIMAG	G580 BRU M646 VJN A341 VIMAG	685
		OLKIT	OSANU	M758 VJN M646 OSANU	389
			VIMAG	M758 VJN A341 VIMAG	410
				M759 BRU W461 VSN A341 VIMAG	412
	ASISU	OSANU	M768 BRU M646 OSANU	337	
		VIMAG	M768 BRU W461 VSN A341 VIMAG	345	
	UJUNG PANDANG FIR	OLKIT	AGSON	M759 BRU R223 AGSON	339
			MAMOK	M759 BRU M768 MAMOK	254
			BAXAL	M759 BRU W453 LATIL W441 VTW A211 BAXAL	402
		ASISU	AGSON	M768 BRU R223 AGSON	272
			MAMOK	M768 MAMOK	187
			BAXAL	M768 BRU W453 LATIL W441 VTW A211 BAXAL	335

From	To	Entry	Exit	Route	Distance
MANILA FIR	SINGAPORE FIR	VINIK	KAMIN	M754 BRU M646 KAMIN	624
			AGOBA	M754 BRU G580 VKG M761 AGOBA	696
			NIMIX	M754 BRU G580 ATETI	723
			OLKIT	M754 BRU M759 OLKIT	422
		OSANU	KAMIN	M646 KAMIN	606
			AGOBA	M646 BRU G580 VKG M761	678
			NIMIX	M646 BRU G580 ATETI	735
			OLKIT	M646 VJN M758 OLKIT	389
			ASISU	M646 VJN Y446 ASISU	292
		VIMAG	KAMIN	A341 VSN M646 KAMIN	600
			AGOBA	A341 VJN M646 BRU G580 VKG M761 AGOBA	699
			NIMIX	A341 VSN M646 BRU G580 ATETI	726
			OLKIT	A341 VSN M758 OLKIT	410
			ASISU	A341 VSN Y446 ASISU	313
			PAPSA	M754 BRU G580 VKG R445 PAPSA	602
			OKADA	M754 BRU R223 BUTAX P648 OKADA	398
			PAPSA	M646 BRU G580 VKG R455	584
			OKADA	M646 VJN P648 OKADA	462
			PAPSA	A341 VJN M646 BRU G580 VKG R445 PAPSA	605
			OKADA	A341 VJN P648 OKADA	483
MANILA FIR	UJUNG PANDANG FIR	VINIK	AGSON	M754 BRU R223 AGSON	398
			MAMOK	M522 MAMOK	276
			BAXAL	M522 VJN W425 VTW A211 BAXAL	344
		OSANU	AGSON	M646 BRU R223 AGSON	380
			MAMOK	M646 VJN M522 MAMOK	241
			BAXAL	M646 VJN W425 VTW BAXAL	309
		VIMAG	AGSON	A341 VJN M646 BRU R223 AGSON	401
			MAMOK	A341 VJN M522 MAMOK	262
			BAXAL	A341 VJN W425 VTW A211	285

From	To	Entry	Exit	Route	Distance
JAKARTA FIR	SINGAPORE FIR	PAPSA	ASISU	R455 VKG G580 BRU M768 ASISU	476
		ANIPU	ASISU	M772 ASISU (Unidirectional Eastbound)	320
		OKADA	ASISU	P648 BUTAX R223 BRU M768 ASISU	447
	MANILA FIR	PAPSA	VINIK	R455 VKG G580 BRU M754 VINIK	602
			OSANU	R455 VKG G580 BRU M646 OSANU	584
			VIMAG	R455 VKG G580 BRU M646 VJN A341 VIMAG	605
		OKADA	VINIK	P648 BUTAX R223 BRU M754 VINIK	572
			OSANU	P648 VJN M646 OSANU	462
			VIMAG	P648 VJN A341 VIMAG	483
UJUNG PANDANG FIR	SINGAPORE FIR	AGSON	OLKIT	R223 BRU M759 OLKIT	339
			ASISU	R223 BRU M768 ASISU	272
		MAMOK	KAMIN	M768 BRU M646 KAMIN	456
			AGOBA	M768 BRU G460 VSI W459 AGOBA	516
			NIMIX	M768 BRU G580 ATETI	555
			OLKIT	M768 BRU M759 OLKIT	254
			ASISU	M768 ASISU	187
	MANILA FIR	AGSON	VINIK	R223 BRU M754 VINIK	398
			OSANU	R223 BRU M646 OSANU	408
			VIMAG	R223 BRU M646 VJN A341 VIMAG	401
		MAMOK	VINIK	M522 VINIK	276
			OSANU	M522 VJN M646 OSANU	241
			VIMAG	M522 VJN A341 VIMAG	262
		BAXAL	VINIK	A211 VTW W425 VJN M522 VINIK	344
			OSANU	A211 VTW W425 VJN M646 OSANU	309
VIMAG	A211 VTW W425 VJN A341 VIMAG		217		