



**Tradewind VA**



## **Flight Briefing Package**

**TCC211A KMEM-EDSB**

**20-Jul-2019 #2**

RELEASE #2

MEMPHIS INTL  
(UNITED STATES)

-

KARLSRUHE/BADEN-BADEN  
(GERMANY)

PREPARED BY CHRISTIAN BREUER (TCA2984)

CHRISTIAN@TCA-CHARTER.DE

20 JUL 1841 UTC

<b>Fuel Planning (kg)</b>	<b>EU-OPS</b>	<b>Fuel</b>	<b>Time</b>
TRIP		53.583	08:08
CONT 5%		2.679	00:27
HOLD	EDSB	1.979	00:20
ALTN	EDTL	2.501	00:21
FINAL RESV		2.967	00:30
ADD FUEL		1.173	00:12
MIN T/O		64.882	09:59
EXTRA		1.484	00:15
TAXI		1.300	00:25
RELEASE	KMEM	67.666	10:39
ARR FUEL	EDSB	12.159	01:53

<b>Load Planning (kg)</b>	<b>PJTGC</b>	<b>Plan</b>	<b>Limit</b>
Empty Weight		156.146	
Payload	265+0 Pax	24.910	
Zero Fuel Weight	Limit	181.056	209.106
Fuel		67.666	162.613
Ramp Weight		248.722	348.359
Take-Off Weight KMEM		247.422	315.028
Landing Weight EDSB		193.839	223.167
Underload		28.050	Lim ZFW
Max Extra Fuel		29.328	Lim LDW

<b>Cost Planning</b>		
Flight Time	08:08\$	45.675
Fuel	55.507\$	43.589
Total		\$ 89.264
Per Pax		\$ 337
Per 5.000 kg Payload		\$ 17.917

TRADEWIND CARIBBEAN FLIGHTPLAN - IFR TCC211A PJTGC KMEM-EDSB

ALL WEIGHTS IN KILOGRAMS (KG) STD 20JUL/2205Z

OPF 2 - PREPARED 20JUL/1841Z BY CHRISTIAN BREUER (TCA2984) CHRISTIAN@TCA-CHARTER.DE

TR211A/TCC211A PJTGC/B777-2LR GE SEL/SALH ROUTE: KMEMEDSB01

DEP: KMEM/MEM 18C ELEV 341 FT COST INDEX: 250 TTL G/C DIST: 4155 NM
ARR: EDSB/FKB 21 ELEV 409 FT INIT ALT: FL350 TTL F/P DIST: 4209 NM
FUEL BIAS: 100.5% TTL AIR DIST: 3931 NM
AVG WIND CMP: TL034 KT

ALT: EDTL/LHA 03 ELEV 511 FT 93 NM

Table with columns: CONFIG, DOW, PAX, CARGO, TOTAL, ULOAD LIM, ZFW, TOW, LDW. Rows include STANDARD, MAX, PLN, and ACT.

\*\* TAKE-OFF DATA KMEM 18C \*\*

COND: 247422 KG // RWY DRY // +33C Q1016 210/07 // LMT: STRUCT
CONFIG: FLAPS 5 // D-T01 +56C // A/I OFF/AUTO // A/C ON
SPEEDS: V1=153 VR=154 V2=157
ENG OUT: NONE

Table with columns: FUEL, CORR, ENDUR. Rows include TRIP, CONT 5%, ALTN EDTL, FINAL RESV, HOLD, ADD FUEL, MIN T/O, EXTRA, TAXI, RELEASE, and ARR FUEL.

FUEL TANK CAP 162613 KG / MAX EXTRA FUEL 30812 KG LIM BY LDW
TRIP CORR FOR 5000 KG TOW INCR: +795 KG / 5000 KG TOW DECR: -1036 KG
2000 FT LOWER: +1391 KG / EET 08:07 CLB: 250/310/84 DES: 84/320/250

KMEM STD 22:05Z/17:05L ETD 22:05Z ACT OFBL .... EST T/O 22:30Z ACT T/O ....
EDSB STA 07:15Z/09:15L ETA 06:50Z ACT ONBL .... EST LDG 06:38Z ACT LDG ....
SKD 09:10 PLN 08:45 TTL BLCK .... EST FLT 08:08 TTL FLT ....

\*\*\*\*\* 120 MIN ETOPS CRITICAL FUEL SUMMARY \*\*\*\*\*

NON-ICING CONDITIONS - INCLUDING FUEL FOR ONE MISSED APPROACH

ETOPS ENTRY (CYQX) 203 NM BEFORE 5340N N52 33.4 W045 31.8 EET 04:13
ETOPS EXIT (EINN) 1 NM BEFORE 5420N N54 00.1 W020 02.2 EET 06:00

ETOPS ALTNS WX/NOTAM SUITABILITY PERIOD

CYQX (03:33-05:34)
BIKF (05:10-05:44)
EINN (05:13-05:44)

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**ONE ENGINE OUT DECOMP ETP 1 FOR CYQX/BIKF** N53 36.7 W034 59.3 EET 05:00  
 84/320/250 DESC TO FL100 CRUISE AT 1E0320 179 NM BEFORE 5430N  
 PLN FUEL OVER ETP 30293 ETP FUEL REQ 17157 DIV TIME 02:04  
 ETP TO CYQX (N48 56.2 W054 34.1) DIST 785 NM WC TL009 TT 257  
 ETP TO BIKF (N63 59.1 W022 36.3) DIST 730 NM WC HD014 TT 027

**ALL ENGINE DECOMP ETP 1 FOR CYQX/BIKF** N53 36.7 W034 59.3 EET 05:00  
 84/320/250 DESC TO FL100 CRUISE AT AE320 179 NM BEFORE 5430N  
 PLN FUEL OVER ETP 30293 ETP FUEL REQ 16350 DIV TIME 02:04  
 ETP TO CYQX (N48 56.2 W054 34.1) DIST 785 NM WC TL009 TT 257  
 ETP TO BIKF (N63 59.1 W022 36.3) DIST 730 NM WC HD014 TT 027

**ONE ENGINE OUT ETP 1 FOR CYQX/BIKF** N53 38.9 W034 36.9 EET 05:01  
 1E084/320 DESC TO FL297 CRUISE AT 1E0320 165 NM BEFORE 5430N  
 PLN FUEL OVER ETP 30127 ETP FUEL REQ 16766 DIV TIME 01:39  
 ETP TO CYQX (N48 56.2 W054 34.1) DIST 798 NM WC TL008 TT 257  
 ETP TO BIKF (N63 59.1 W022 36.3) DIST 722 NM WC HD036 TT 026

**ONE ENGINE OUT ETP 2 FOR BIKF/EINN** N53 48.1 W032 53.3 EET 05:09  
 1E084/320 DESC TO FL298 CRUISE AT 1E0320 103 NM BEFORE 5430N  
 PLN FUEL OVER ETP 29367 ETP FUEL REQ 16049 DIV TIME 01:34  
 ETP TO BIKF (N63 59.1 W022 36.3) DIST 688 NM WC HD035 TT 023  
 ETP TO EINN (N52 42.1 W008 55.5) DIST 860 NM WC TL067 TT 085

**ONE ENGINE OUT DECOMP ETP 2 FOR BIKF/EINN** N54 04.7 W027 28.4 EET 05:31  
 84/320/250 DESC TO FL100 CRUISE AT 1E0320 264 NM BEFORE 5420N  
 PLN FUEL OVER ETP 27074 ETP FUEL REQ 14305 DIV TIME 01:43  
 ETP TO BIKF (N63 59.1 W022 36.3) DIST 614 NM WC HD008 TT 012  
 ETP TO EINN (N52 42.1 W008 55.5) DIST 668 NM WC TL020 TT 090

**ALL ENGINE DECOMP ETP 2 FOR BIKF/EINN** N54 04.7 W027 28.4 EET 05:31  
 84/320/250 DESC TO FL100 CRUISE AT AE320 264 NM BEFORE 5420N  
 PLN FUEL OVER ETP 27074 ETP FUEL REQ 13627 DIV TIME 01:43  
 ETP TO BIKF (N63 59.1 W022 36.3) DIST 614 NM WC HD008 TT 012  
 ETP TO EINN (N52 42.1 W008 55.5) DIST 668 NM WC TL020 TT 090

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**ATC ROUTE:** N0499F350 ELVIS4 MEM Q29 DORET/N0492F370 Q29 JHW DCT GEE DCT SYR DCT  
 YSC DCT MILLS N443A TUDEP DCT 52N050W 53N040W 54N030W/M085F370  
 54N020W DCT DOGAL/N0493F370 DCT BEXET DCT BAKUR N546 STU UL9 KONAN  
 UL607 KOK/N0487F390 UM150 PITES M150 LADAT LADA1L

**ALTERNATE PLANNING**

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**ALTN/RWY DIST ALT/FL MSA COMP TIME FUEL DIFF ROUTE**  
 EDTL/03 93 FL160 059 HD008 00:21 2501 - KRH DCT STR

MOST CRITICAL MORA 8300 FT AT YSC

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AWY -FIR	WAYPOINT NAME	MT	ALT ISA	MSA WND/SPD	FREQ TAS	LEG GS	FUEL REM	REM / USED POSITION	LEG ETO / ATO	ACC
	KMEM/18C MEMPHIS INTL		341	026			66.4 / 1.3		4209 N3503.3 W08958.6	...../.....
ELVIS4	MEM MEMPHIS	190	*CLB	026 P14	117.50 226/005	2 4206	65.5 / 2.2		02 N3500.9 W08959.0	00.02 ...../.....
Q29	OMDUE	038	*CLB	026		83	62.0 / 5.7		12	00.14

				P13 300/004	4123	N3607.8 W08858.2	...../.....		
Q29	*TOC	039	FL350 025	499 18	61.6 / 6.1	02 00.16			
			P11 301/005	499 4105	N3621.8 W08845.2	...../.....			
	KCVG	039	FL350 025	32	61.1 / 6.5	04 00.20			
			P11 308/013	4073	N3647.5 W08821.1	...../.....			
Q29	SIDAE	040	FL350 032	499 41	60.6 / 7.1	05 00.25			
			P11 293/013	501 4032	N3720.0 W08750.0	...../.....			
Q29	*BDRY	049	FL350 028	499 8	60.4 / 7.2	01 00.26			
-KZID			P11 292/013	502 4024	N3725.8 W08742.5	...../.....			
Q29	CREEP	049	FL350 037	499 219	57.4 / 10.2	26 00.52			
			P11 283/017	509 3805	N3955.3 W08418.5	...../.....			
Q29	*BDRY	050	FL350 032	499 53	56.7 / 11.0	06 00.58			
-KZOB			P11 280/015	507 3752	N4033.5 W08329.7	...../.....			
Q29	KLYNE	051	FL350 032	499 12	56.5 / 11.1	02 01.00			
			P12 283/015	507 3740	N4041.9 W08318.7	...../.....			
	KCLE	059	FL350 032	12	56.4 / 11.3	01 01.01			
			P11 288/022	3728	N4049.0 W08306.7	...../.....			
Q29	DUTSH	059	FL350 032	499 32	55.9 / 11.7	04 01.05			
			P12 271/013	509 3696	N4108.4 W08233.2	...../.....			
Q29	WWSHR	069	FL350 031	499 26	55.6 / 12.1	03 01.08			
			P11 256/014	512 3670	N4120.6 W08203.1	...../.....			
Q29	DORET	075	*CLB 037	71	54.6 / 13.0	08 01.16			
			P12 287/026	3599	N4148.1 W08035.1	...../.....			
	KBUF	079	*CLB 037	3	54.5 / 13.1	00 01.16			
			P10 274/032	3596	N4149.2 W08030.9	...../.....			
Q29	JHW	079	FL370 046	<b>114.70</b> 492 66	53.6 / 14.0	08 01.24			
	JAMESTOWN		P09 278/038	525 3530	N4211.3 W07907.3	...../.....			
DCT	GEE	068	FL370 050	<b>108.20</b> 491 73	52.7 / 15.0	08 01.32			
	GENESE0		P08 264/047	531 3457	N4250.1 W07744.0	...../.....			
	CYUL	085	FL370 049	16	52.5 / 15.2	02 01.34			
			P08 261/051	3441	N4254.6 W07723.5	...../.....			
DCT	*BDRY	085	FL370 049	491 29	52.1 / 15.5	03 01.37			
-KZBW			P08 260/046	537 3412	N4302.8 W07645.0	...../.....			
DCT	SYR	086	FL370 047	<b>117.00</b> 491 25	51.8 / 15.8	03 01.40			
	SYRACUSE		P09 259/046	537 3387	N4309.6 W07612.3	...../.....			
DCT	*BDRY	066	FL370 083	492 196	49.4 / 18.3	22 02.02			
-CZUL			P08 271/066	544 3191	N4500.7 W07227.4	...../.....			
DCT	YSC	071	FL370 060	<b>113.20</b> 491 34	49.0 / 18.7	04 02.06			
	SHERBROOKE		P08 272/070	547 3157	N4519.0 W07147.3	...../.....			
DCT	*BDRY	078	FL370 065	491 65	48.2 / 19.4	07 02.13			
-KZBW			P08 279/077	551 3092	N4548.1 W07024.1	...../.....			
DCT	*BDRY	080	FL370 074	491 120	46.8 / 20.9	13 02.26			
-CZQM			P08 288/101	560 2971	N4639.1 W06746.9	...../.....			

DCT	<b>MILS</b>	083	FL370	036	491	33	46.4 / 21.2	03	02.29	
					P08	288/102	561 2938	N4652.4	W06702.9	...../.....
	<b>CYQX</b>	077	FL370	041		42	45.9 / 21.7	05	02.34	
					P08	272/098	2896	N4713.5	W06609.6	...../.....
N443A	<b>*BDRY</b>	078	FL370	041	491	88	44.9 / 22.7	09	02.43	
-CZUL					P09	279/112	572 2808	N4756.3	W06415.9	...../.....
N443A	<b>*BDRY</b>	080	FL370	039	493	123	43.5 / 24.1	13	02.56	
-CZQX					P11	281/103	573 2685	N4852.9	W06131.3	...../.....
N443A	<b>TUDEP</b>	082	FL370	040	491	348	39.4 / 28.3	39	03.35	
					P05	330/011	492 2337	N5110.0	W05314.0	...../.....

----- OCEANIC ENTRY -----

[ ]	LR NAV ACCUR CHECK	AT	__:_Z	CAPT	_____	STBY	_____	FO	_____
[ ]	RVSM ALTIMETER CHECK	AT	__:_Z	CAPT	_____	STBY	_____	FO	_____
[ ]	COMPASS HDG CHECK	AT	__:_Z	CAPT	_____	STBY	_____	FO	_____
[ ]	HF CHECK	AT	__:_Z	SIGNATURE	(.....)	_____	_____	_____	_____

DCT	<b>5250N</b>	085	FL370	010	492	131	37.6 / 30.1	16	03.51	
	52N050W				P04	017/035	470 2206	N5200.0	W05000.0	...../.....

----- ETOPS ENTRY (CYQX) 0203 NM BEFORE 5340N EET 04:13 -----

DCT	<b>5340N</b>	098	FL370	010	498	371	32.6 / 35.1	47	04.38	
	53N040W				P12	015/008	495 1836	N5300.0	W04000.0	...../.....

<b>*ETP 1</b>	093	FL370	010	498	183	30.3 / 37.4	22	05.00	
CYQX/BIKF				P12	239/010	506 1652	N5336.7	W03459.3	...../.....

DCT	<b>5430N</b>	095	FL370	010	498	179	28.1 / 39.5	21	05.21	
-EGGX	54N030W				P12	236/027	521 1473	N5400.0	W03000.0	...../.....

<b>*ETP 2</b>	099	FL370	010	498	89	27.1 / 40.6	10	05.31	
BIKF/EINN				P11	240/038	527 1384	N5404.7	W02728.4	...../.....

----- ETOPS EXIT (EINN) 0001 NM BEFORE 5420N EET 06:00 -----

DCT	<b>5420N</b>	103	FL370	010	494	264	24.1 / 43.6	29	06.00	
	54N020W				P09	257/070	561 1120	N5400.0	W02000.0	...../.....

DCT	<b>DOGAL</b>	097	FL370	010	493	177	22.2 / 45.4	19	06.19	
					P08	264/078	571 944	N5400.0	W01500.0	...../.....

DCT	<b>BEXET</b>	096	FL370	010	492	35	21.9 / 45.8	03	06.22	
-EISN					P08	266/080	572 908	N5400.0	W01400.0	...../.....

<b>EGLL</b>	112	FL370	045		300	18.7 / 49.0	32	06.54		
					P03	282/077	608	N5221.1	W00607.0	...../.....

DCT	<b>BAKUR</b>	115	FL370	044	489	18	18.5 / 49.2	02	06.56	
-EGTT					P05	281/070	561 590	N5214.5	W00540.8	...../.....

N546	<b>STU</b>	124	FL370	019	<b>113.10</b>	490	28	18.2 / 49.5	03	06.59
	STRUMBLE				P05	282/066	552 563	N5159.7	W00502.4	...../.....

UL9	<b>DIKAS</b>	103	FL370	042	490	67	17.5 / 50.2	07	07.06	
					P05	285/060	553 495	N5146.6	W00315.6	...../.....

UL9	<b>GAVGO</b>	103	FL370	042	490	59	16.8 / 50.9	07	07.13	
			P05	287/056	547	436	N5133.8 W00142.6	...../.....		
UL9	<b>KENET</b>	106	FL370	024	490	10	16.7 / 51.0	01	07.14	
			P05	286/056	547	426	N5131.2 W00127.3	...../.....		
UL9	<b>CPT COMPTON</b>	102	FL370	024	<b>114.35</b>	490	9	16.6 / 51.1	01	07.15
			P05	285/055	546	417	N5129.5 W00113.2	...../.....		
UL9	<b>NORRY</b>	102	FL370	024	490	4	16.6 / 51.1	00	07.15	
			P05	284/055	546	414	N5128.8 W00107.4	...../.....		
UL9	<b>LINDY</b>	102	FL370	024	490	3	16.5 / 51.1	01	07.16	
			P05	284/055	545	411	N5128.2 W00103.0	...../.....		
UL9	<b>GOXUL</b>	102	FL370	024	490	33	16.2 / 51.5	03	07.19	
			P05	278/057	547	377	N5121.5 W00010.6	...../.....		
UL9	<b>BIG BIGGIN</b>	102	FL370	024	<b>115.10</b>	490	8	16.1 / 51.6	01	07.20
			P05	276/058	548	369	N5119.9 E00002.1	...../.....		
UL9	<b>DIKVU</b>	101	FL370	024	490	11	16.0 / 51.7	01	07.21	
			P05	274/058	548	358	N5117.8 E00019.0	...../.....		
UL9	<b>LAVRI</b>	101	FL370	024	490	10	15.9 / 51.8	01	07.22	
			P05	272/058	548	348	N5115.8 E00034.8	...../.....		
UL9	<b>EMKAD</b>	101	FL370	024	490	5	15.8 / 51.9	01	07.23	
			P05	272/058	548	343	N5114.8 E00042.6	...../.....		
UL9	<b>UMTUM</b>	101	FL370	024	490	12	15.7 / 52.0	01	07.24	
			P04	270/059	548	331	N5112.5 E00101.1	...../.....		
UL9	<b>DVR DOVER</b>	102	FL370	024	<b>114.95</b>	490	13	15.5 / 52.1	02	07.26
			P04	269/059	548	318	N5109.8 E00121.6	...../.....		
UL9 -EBUR	<b>KONAN</b>	094	FL370	024	490	24	15.3 / 52.4	02	07.28	
			P04	267/060	549	294	N5107.9 E00200.0	...../.....		
UL607	<b>KOK KOKSY</b>	094	*CLB	019	<b>114.50</b>	25	15.0 / 52.7	03	07.31	
			P04	267/060		269	N5105.7 E00239.1	...../.....		
	<b>EBBR</b>	117	*CLB	019		3	14.9 / 52.7	00	07.31	
			M00	274/055		266	N5104.2 E00243.7	...../.....		
UM150	<b>KOMOB</b>	117	FL390	036	486	115	13.6 / 54.0	13	07.44	
			P00	270/055	534	151	N5008.6 E00522.4	...../.....		
UM150	<b>*TOD</b>	118	FL390	036	486	8	13.5 / 54.1	01	07.45	
			P00	270/055	533	142	N5004.4 E00533.9	...../.....		
UM150	<b>DIK DIEKIRCH</b>	118	*DES	038	<b>114.40</b>	25	13.5 / 54.2	03	07.48	
			P06	273/057		117	N4951.7 E00607.8	...../.....		
	<b>ELLX</b>	116	*DES	038		8	13.5 / 54.2	01	07.49	
			P08	287/049		109	N4947.7 E00619.4	...../.....		
UM150 -EDUU	<b>PITES</b>	116	*DES	038		9	13.5 / 54.2	01	07.50	
			P08	269/047		100	N4943.7 E00631.2	...../.....		
-EDGG	<b>EDSB</b>	116	*DES	041		36	13.3 / 54.3	04	07.54	
			P08	272/026		64	N4926.8 E00719.9	...../.....		

M150	LADAT	116	*DES 041	23	13.2 / 54.4	04	07.58
			P07 257/027	41	N4915.9 E00750.4	...../.....	
LADA1L	ABKUT	134	*DES 055	23	13.1 / 54.5	04	08.02
			P06 267/013	18	N4859.0 E00815.0	...../.....	
LADA1L	KBA	206	*DES 055 <b>431.0</b>	13	12.8 / 54.8	05	08.07
	KARLSRUHE/BADEN-BADE		P08 264/006	5	N4847.9 E00805.9	...../.....	
LADA1L	EDSB/21	208	409 055	5	12.8 / 54.9	01	08.08
	KARLSRUHE/BADEN-BADE				N4847.3 E00805.4	...../.....	

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WIND INFORMATION - OBS 20/JUL 12:00

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**(CLIMB)**                      **SIDAE**                      **CREEP**                      **DUTSH**  
FL340 347/003 -41 FL390 285/010 -53 FL390 294/016 -52 FL390 302/013 -52  
FL270 334/005 -24 FL370 290/012 -48 FL370 288/016 -48 FL370 288/013 -47  
FL200 021/003 -8 FL350 293/014 -43 FL350 283/017 -43 FL350 272/014 -43  
13000 147/001 +5 FL330 293/015 -38 FL330 278/018 -38 FL330 261/015 -38  
6000 234/007 +17 FL310 290/015 -33 FL310 271/019 -34 FL310 255/017 -33

**JHW**                              **SYR**                              **YSC**                              **MIILS**  
FL410 279/040 -58 FL410 259/048 -57 FL410 272/071 -56 FL410 286/094 -55  
FL390 282/040 -53 FL390 259/049 -53 FL390 270/073 -52 FL390 287/102 -52  
FL370 279/039 -48 FL370 260/047 -48 FL370 273/070 -48 FL370 289/103 -49  
FL350 273/037 -42 FL350 261/043 -43 FL350 278/066 -44 FL350 290/102 -44  
FL330 270/035 -37 FL330 265/040 -38 FL330 281/063 -39 FL330 289/100 -40

**TUDEP**                              **5250N**                              **5340N**                              **5430N**  
FL410 310/022 -51 FL410 355/025 -51 FL410 318/007 -44 FL410 242/026 -45  
FL390 311/018 -52 FL390 006/031 -53 FL390 347/007 -43 FL390 239/029 -44  
FL370 331/011 -52 FL370 017/035 -52 FL370 015/008 -44 FL370 236/027 -45  
FL350 032/009 -50 FL350 028/040 -51 FL350 034/011 -46 FL350 232/024 -45  
FL330 055/011 -47 FL330 032/041 -48 FL330 044/014 -47 FL330 225/019 -45

**5420N**                              **DOGAL**                              **BAKUR**                              **GAVGO**  
FL410 258/052 -47 FL410 264/056 -48 FL410 277/054 -52 FL410 281/047 -52  
FL390 260/062 -47 FL390 266/069 -49 FL390 280/064 -53 FL390 285/053 -53  
FL370 257/070 -47 FL370 265/079 -48 FL370 281/071 -52 FL370 287/057 -52  
FL350 254/078 -47 FL350 263/089 -48 FL350 283/078 -51 FL350 289/060 -50  
FL330 252/079 -46 FL330 262/091 -46 FL330 282/079 -48 FL330 289/060 -48

**UMTUM**                              **KOMOB**                              **(DESCENT)**  
FL410 270/049 -53 FL430 269/041 -54 FL380 256/061 -56  
FL390 269/056 -54 FL410 270/048 -55 FL300 257/057 -40  
FL370 270/059 -52 FL390 270/056 -56 FL230 251/048 -22  
FL350 271/061 -50 FL370 271/059 -54 FL150 251/043 -7  
FL330 272/062 -47 FL350 272/061 -51 FL070 253/031 +8

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END FLIGHTPLAN 03279 TCC211A PJTGC KMEM-EDSB 20JUL2019

[ATC FLIGHTPLAN]

(FPL-TCC211A-IS

-B77L/H-SDE1FGHIJ1J5M1RWXY/LB2

-KMEM2205

-N0499F350 ELVIS4 MEM Q29 DORET/N0492F370 Q29 JHW DCT GEE DCT

SYR DCT YSC DCT MIILS N443A TUDEP DCT 52N050W 53N040W

54N030W/M085F370 54N020W DCT DOGAL/N0493F370 DCT BEXET DCT BAKUR

N546 STU UL9 KONAN UL607 KOK/N0487F390 UM150 PITES M150 LADAT

-EDSB0808 EDTL

-PBN/A1B1C1D1L101S2 NAV/RNVD1E2A1 DOF/190720 REG/PJTGC

EET/KZID0026 KZOB0058 KZBW0137 CZUL0202 KZBW0213 CZQM0226

CZUL0243 CZQX0256 52N050W0351 53N040W0438 EGGX0521 54N020W0600

EISN0619 EGGT0656 EBUR0728 EDUU0750 EDGG0750

SEL/SALH CODE/484DC5 RVR/75 OPR/TRADEWIND CARIBBEAN

ORGN/TNCCTCAP PER/C

RALT/EINN BIKF CYQX

RMK/TCAS

-E/1014)

[PLANNING WEATHER]

**ORIGIN: KMEM/MEM (MEMPHIS INTL, UNITED STATES)**

**UTC -05:00**

KMEM 201754Z 25007KT 10SM FEW050 33/24 A2999 RMK A02 SLP151 T03280244  
10333 20256 56011 \$  
KMEM 201724Z 2018/2124 21007KT P6SM VCSH BKN040  
FM210000 19005KT P6SM FEW050 SCT250  
FM211500 21007KT P6SM SCT030  
FM211800 22007KT P6SM BKN040

**DESTINATION: EDSB/FKB (KARLSRUHE/BADEN-BADEN, GERMANY)**

**UTC +02:00**

EDSB 201820Z 27005KT 230V310 CAVOK 28/16 Q1013  
EDSB 201700Z 2018/2118 22008KT CAVOK  
PROB30 TEMPO 2018/2020 25015G30KT TSRA SCT055CB  
PROB40 TEMPO 2020/2102 26020G35KT TSRA BKN040CB  
BECMG 2111/2113 28005KT

**ALTERNATE: EDTL/LHA (LAHR, GERMANY)**

**UTC +02:00**

EDTL 191750Z 02006KT CAVOK 26/15 Q1014  
EDTL 201700Z 2018/2024 22007KT CAVOK  
PROB30 TEMPO 2018/2020 25015G30KT TSRA SCT055CB  
PROB40 TEMPO 2020/2024 26020G35KT TSRA BKN040CB

**EDTO AIRPORT: EINN/SNN (SHANNON, IRELAND)**

**UTC +01:00**

EINN 201800Z 25013KT 9999 FEW024 SCT060 18/12 Q1011 NOSIG  
EINN 201700Z 2018/2118 25012KT 9999 FEW020 BKN030  
BECMG 2020/2022 24007KT  
BECMG 2022/2024 19008KT  
BECMG 2101/2104 16010KT  
PROB30 TEMPO 2102/2105 4000 BR  
PROB40 TEMPO 2106/2108 BKN012  
BECMG 2107/2109 19014KT  
TEMPO 2112/2117 20015G26KT  
TEMPO 2112/2115 4000 RA BKN010  
TEMPO 2115/2118 3000 -RA BR BKN006  
PROB30 TEMPO 2115/2117 RA

**EDTO AIRPORT: BIKF/KEF (KEFLAVIK, ICELAND)**

**UTC +00:00**

BIKF 201800Z 36011KT 9999 VCSH FEW026CB SCT034 BKN074 16/10 Q1003  
BIKF 201607Z 2018/2118 03012KT 9999 FEW025 SCT045 TX18/2018Z TN10/2106Z  
TEMPO 2018/2022 SHRA BKN025CB  
BECMG 2023/2102 10008KT BKN015 OVC025  
PROB40 TEMPO 2105/2109 SHRA BKN010  
BECMG 2110/2113 35008KT SCT020 BKN035  
TEMPO 2114/2118 SHRA BKN020CB

**EDTO AIRPORT: CYQX/YQX (GANDER INTL, CANADA)**

**UTC -02:30**

CYQX 201800Z 01009KT 340V040 20SM FEW013 OVC019 14/09 A2966 RMK SC15C7  
SLP047 DENSITY ALT 800FT  
CYQX 201738Z 2018/2118 03005KT P6SM BKN020  
TEMPO 2018/2102 SCT020  
BECMG 2100/2102 13008KT  
FM210200 13008KT P6SM SCT003 BKN040  
PROB30 2102/2110 1SM BR OVC003  
FM211000 14010KT P6SM FEW006 BKN015  
FM211500 14010KT 2SM -RA BR OVC002  
RMK NXT FCST BY 210000Z

**ADEQUATE: KCVG/CVG (CINCINNATI/NORTHERN KY INTL, UNITED STATES)**

**UTC -04:00**

KCVG 201752Z 20018G22KT 10SM SCT037 SCT150 33/22 A2997 RMK A02 SLP137  
60000 T03280222 10328 20256 58012 \$  
KCVG 201815Z 2018/2124 20012G20KT P6SM SCT025 SCT035  
FM202300 22004KT P6SM FEW150  
FM211400 24007KT P6SM SCT040 SCT150  
FM211900 22006KT P6SM VCTS BKN050CB

**ADEQUATE: KCLE/CLE (CLEVELAND-HOPKINS INTL, UNITED STATES)**

**UTC -04:00**

KCLE 201751Z 21011KT 10SM SCT220 33/22 A2990 RMK A02 SLP115 T03280217  
10333 20256 58006 \$  
KCLE 201735Z 2018/2124 24011KT P6SM SCT250  
FM210100 23008KT P6SM VCTS SCT060CB BKN100  
FM210400 23007KT P6SM FEW050 SCT110  
FM210800 24006KT P6SM BKN250  
FM211500 35005KT P6SM BKN035

**ADEQUATE: KBUF/BUF (BUFFALO NIAGARA INTL, UNITED STATES)**

**UTC -04:00**

KBUF 201754Z 22017G25KT 10SM FEW050 FEW150 SCT200 29/21 A2983 RMK A02  
SLP096 T02890211 10294 20256 56010  
KBUF 201733Z 2018/2118 24018G26KT P6SM SCT050 BKN200  
FM202300 23012KT P6SM BKN050  
FM210500 22008KT P6SM -TSRA OVC040CB  
FM210700 27010KT P6SM VCSH OVC025  
FM211100 27008KT P6SM BKN040

**ADEQUATE: CYUL/YUL (PIERRE ELLIOTT TRUDEAU INTL, CANADA)**

**UTC -04:00**

CYUL 201800Z 21014KT 15SM FEW030 FEW250 31/22 A2969 RMK CU1CI2 CU TR  
SLP055 DENSITY ALT 2300FT  
CYUL 201738Z 2018/2118 24010KT P6SM FEW030 BKN220  
FM202000 25012G22KT P6SM BKN040 OVC220  
PROB30 2020/2101 2SM TSRA BR SCT008 BKN040CB OVC190  
FM210100 26007KT P6SM SCT040  
FM210500 23005KT P6SM BKN140  
FM210700 25007KT P6SM -RA OVC040  
FM210900 22007KT 6SM -RA BR BKN012 OVC025  
PROB30 2109/2115 4SM -RA BR OVC006  
FM211500 26010KT P6SM OVC012  
RMK NXT FCST BY 202100Z

**ADEQUATE: EGLL/LHR (HEATHROW, UNITED KINGDOM)**

**UTC +01:00**

EGLL 201820Z AUTO 28014KT 9999 NCD 22/12 Q1012  
EGLL 201656Z 2018/2124 27010KT 9999 SCT040

**ADEQUATE: EBBR/BRU (BRUSSELS NATIONAL, BELGIUM)**

**UTC +02:00**

EBBR 201820Z 25013KT CAVOK 22/12 Q1013 NOSIG  
EBBR 201720Z 2018/2124 24009KT 9999 FEW038  
PROB30 TEMPO 2104/2107 4500 BR BKN008

**ADEQUATE: ELLX/LUX (LUXEMBOURG, LUXEMBOURG)**

**UTC +02:00**

ELLX 201820Z 28014KT CAVOK 25/14 Q1014 NOSIG  
ELLX 201700Z 2018/2124 26010KT CAVOK  
TEMPO 2018/2022 SHRA SCT040TCU  
PROB40 TEMPO 2018/2022 VRB20G35KT 3000 TSRAGR BKN040CB

[TRACK MESSAGE]

NORTH ATLANTIC TRACK MESSAGE

(NAT-1/3 TRACKS FLS 310/390 INCLUSIVE  
JUL 20/1130Z TO JUL 20/1900Z  
PART ONE OF THREE PARTS-

A ERAKA 60/20 61/30 60/40 58/50 CUDDY  
EAST LVLS NIL  
WEST LVLS 310 320 330 340 350 360 370  
EUR RTS WEST NIL  
NAR NIL-

B GOMUP 59/20 60/30 59/40 57/50 HOIST  
EAST LVLS NIL  
WEST LVLS 310 320 330 340 350 360 370 380 390  
EUR RTS WEST NIL  
NAR NIL-

END OF PART ONE OF THREE PARTS)

(NAT-2/3 TRACKS FLS 310/390 INCLUSIVE  
JUL 20/1130Z TO JUL 20/1900Z  
PART TWO OF THREE PARTS-

C SUNOT 58/20 59/30 58/40 55/50 LOMSI  
EAST LVLS NIL  
WEST LVLS 310 320 330 340 350 360 370 380 390  
EUR RTS WEST NIL  
NAR NIL-

D PIKIL 57/20 58/30 57/40 54/50 NEEKO  
EAST LVLS NIL  
WEST LVLS 310 320 330 340 350 360 370 380 390  
EUR RTS WEST NIL  
NAR NIL-

E ETARI 5630/20 5730/30 5630/40 5330/50 PELTU  
EAST LVLS NIL  
WEST LVLS 350 360 370 380 390  
EUR RTS WEST NIL  
NAR NIL-

F RESNO 56/20 57/30 56/40 53/50 RIKAL  
EAST LVLS NIL  
WEST LVLS 310 320 330 340 350 360 370 380 390  
EUR RTS WEST NIL  
NAR NIL-

END OF PART TWO OF THREE PARTS)

(NAT-3/3 TRACKS FLS 310/390 INCLUSIVE  
JUL 20/1130Z TO JUL 20/1900Z  
PART THREE OF THREE PARTS-

G DOGAL 55/20 56/30 55/40 52/50 TUDEP  
EAST LVLS NIL  
WEST LVLS 310 320 330 340 350 360 370 380 390  
EUR RTS WEST NIL  
NAR NIL-

REMARKS.

1. TMI IS 201 AND OPERATORS ARE REMINDED TO INCLUDE THE TMI NUMBER AS PART OF THE OCEANIC CLEARANCE READ BACK.
2. ALL ADSC CPDLC EQUIPPED FLIGHTS NOT LOGGED ON TO A DOMESTIC ATSU PRIOR TO ENTERING THE SHANWICK OCA MUST INITIATE A FANS LOGON TO EGGX BETWEEN 10 AND 25 MINUTES PRIOR TO OCA ENTRY. FAILURE TO DO SO MAY RESULT IN A LATE RE-CLEARANCE.
3. OPERATORS ARE REMINDED THAT ADS-C AND CPDLC IS MANDATED FOR LEVELS 350-390 IN NAT AIRSPACE.
4. PBCS OTS LEVELS 350-390. PBCS TRACKS AS FOLLOWS  
TRACK D  
TRACK E  
TRACK F  
END OF PBCS OTS
5. FOR STRATEGIC LATERAL OFFSET AND CONTINGENCY PROCEDURES FOR OPS IN NAT FLOW REFER TO NAT PROGRAMME COORDINATION WEBSITE  
WWW.PARIS.ICAO.INT.  
SLOP SHOULD BE STANDARD PROCEDURE, NOT JUST FOR AVOIDING WX/TURB.
6. 80 PERCENT OF GROSS NAVIGATION ERRORS RESULT FROM POOR COCKPIT PROCEDURES. CONDUCT EFFECTIVE WAYPOINT CHECKS.
7. OPERATORS ARE REMINDED THAT CLEARANCES MAY DIFFER FROM THE FLIGHT PLAN, FLY THE CLEARANCE.
8. FLIGHTS REQUESTING WESTBOUND OCEANIC CLEARANCE VIA ORCA DATALINK SHALL INCLUDE IN RMK/ FIELD THE HIGHEST ACCEPTABLE FLIGHT LEVEL WHICH CAN  
BE MAINTAINED AT OAC ENTRY POINT. -

END OF PART THREE OF THREE PARTS)

(NAT-1/3 TRACKS FLS 320/400 INCLUSIVE  
JUL 21/0100Z TO JUL 21/0800Z  
PART ONE OF THREE PARTS-

R ELSIR 50/50 52/40 53/30 54/20 DOGAL BEXET  
EAST LVLS 320 330 340 350 360 370 380 390 400  
WEST LVLS NIL  
EUR RTS EAST NIL  
NAR N333B N329B N325A-

S IBERG 4930/50 5130/40 5230/30 5330/20 NEBIN OLGON  
EAST LVLS 350 360 370 380 390  
WEST LVLS NIL  
EUR RTS EAST NIL  
NAR N303B N301B N293A-

T JOOPY 49/50 51/40 52/30 53/20 MALOT GISTI  
EAST LVLS 320 330 340 350 360 370 380 390 400  
WEST LVLS NIL  
EUR RTS EAST NIL  
NAR N269A N261A-

U NICSO 48/50 50/40 51/30 52/20 LIMRI XETBO  
EAST LVLS 320 330 340 350 360 370 380 390 400  
WEST LVLS NIL  
EUR RTS EAST NIL  
NAR N211E N197A-

END OF PART ONE OF THREE PARTS)

(NAT-2/3 TRACKS FLS 320/400 INCLUSIVE  
JUL 21/0100Z TO JUL 21/0800Z  
PART TWO OF THREE PARTS-

V OMSAT 4730/50 4930/40 5030/30 5130/20 ADARA LEKVA  
EAST LVLS 350 360 370 380 390  
WEST LVLS NIL  
EUR RTS EAST NIL  
NAR N183A N169A-

W PORTI 47/50 49/40 50/30 51/20 DINIM ELSOX  
EAST LVLS 320 330 340 350 360 370 380 390 400  
WEST LVLS NIL  
EUR RTS EAST NIL  
NAR N155A N135A-

X SUPRY 46/50 48/40 49/30 50/20 SOMAX ATSUR  
EAST LVLS 320 330 340 350 360 370 380 390 400  
WEST LVLS NIL  
EUR RTS EAST NIL  
NAR N93A N73A-

Y DOVEY 42/60 43/50 44/40  
EAST LVLS 330 350 370  
WEST LVLS NIL  
EUR RTS EAST NIL  
NAR NIL-

END OF PART TWO OF THREE PARTS)

(NAT-3/3 TRACKS FLS 320/400 INCLUSIVE  
JUL 21/0100Z TO JUL 21/0800Z  
PART THREE OF THREE PARTS-

Z SOORY 44/50 47/40 48/30 49/20 BEDRA NASBA  
EAST LVLS 320 360 380 400  
WEST LVLS NIL  
EUR RTS EAST NIL  
NAR NIL-

REMARKS:

- 1.TMI IS 202 AND OPERATORS ARE REMINDED TO INCLUDE THE NUMBER AS PART OF THE OCEANIC CLEARANCE READ BACK.
- 2.OPERATORS ARE REMINDED THAT ADS-C AND CPDLC ARE MANDATED FOR LEVELS 350-390 IN NAT AIRSPACE.
- 3.PBCS OTS LEVELS 350-390. PBCS TRACKS AS FOLLOWS  
TRACK R  
TRACK S  
TRACK T  
TRACK U  
TRACK V  
TRACK W  
END OF PBCS OTS.
- 4.CLEARANCE DELIVERY FREQUENCY ASSIGNMENTS FOR AIRCRAFT OPERATING FROM AVPUT TO TALGO INCLUSIVE:AVPUT TO LIBOR 132.02, MAXAR TO VESMI 134.2, AVUTI TO JANJO 128.7,KODIK TO TUDEP 135.45, UMESI TO JOOPY 135.05, MUSAK TO SUPRY 128.45,RAFIN TO TALGO 119.42.
- 5.80% OF NAVIGATIONAL ERRORS RESULT FROM POOR COCKPIT PROCEDURES ALWAYS CARRY OUT PROPER WAYPOINT PROCEDURES.
- 6.OPERATORS ARE ADVISED THAT VERSION 24 OF THE GANDER DATA LINK OCEANIC CLEARANCE DELIVERY CREW PROCEDURES IS NOW VALID AND AVAILABLE AS NAT OPS BULLETIN 2015-004 ON THE WWW.PARIS.ICAO.INT WEBSITE.
- 7.OPERATORS ARE REMINDED THAT EASTBOUND AIRCRAFT INTENDING TO OPERATE IN THE OTS ARE REQUIRED TO COMPLY WITH NAR FLIGHT



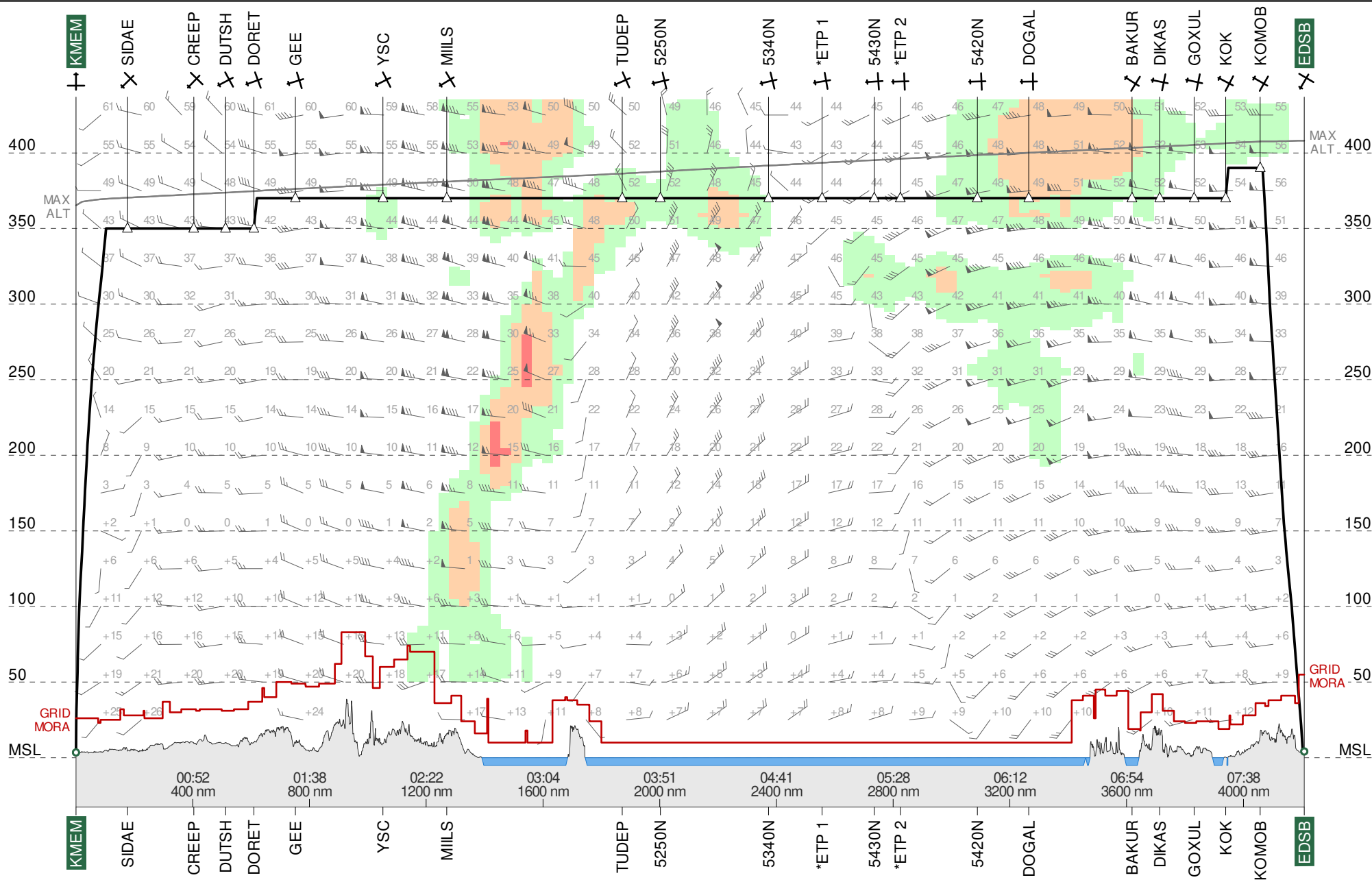
PLANNING RULES AS DEFINED IN THE CANADA FLIGHT SUPPLEMENT  
OR WITH ROUTES AS CONTAINED IN THE DAILY BOSTON ADVISORY. -

END OF PART THREE OF THREE PARTS)

# TR211A #2

## KMEM → EDSB

ETD 20 Jul 22:05z  
PJTGC B77L



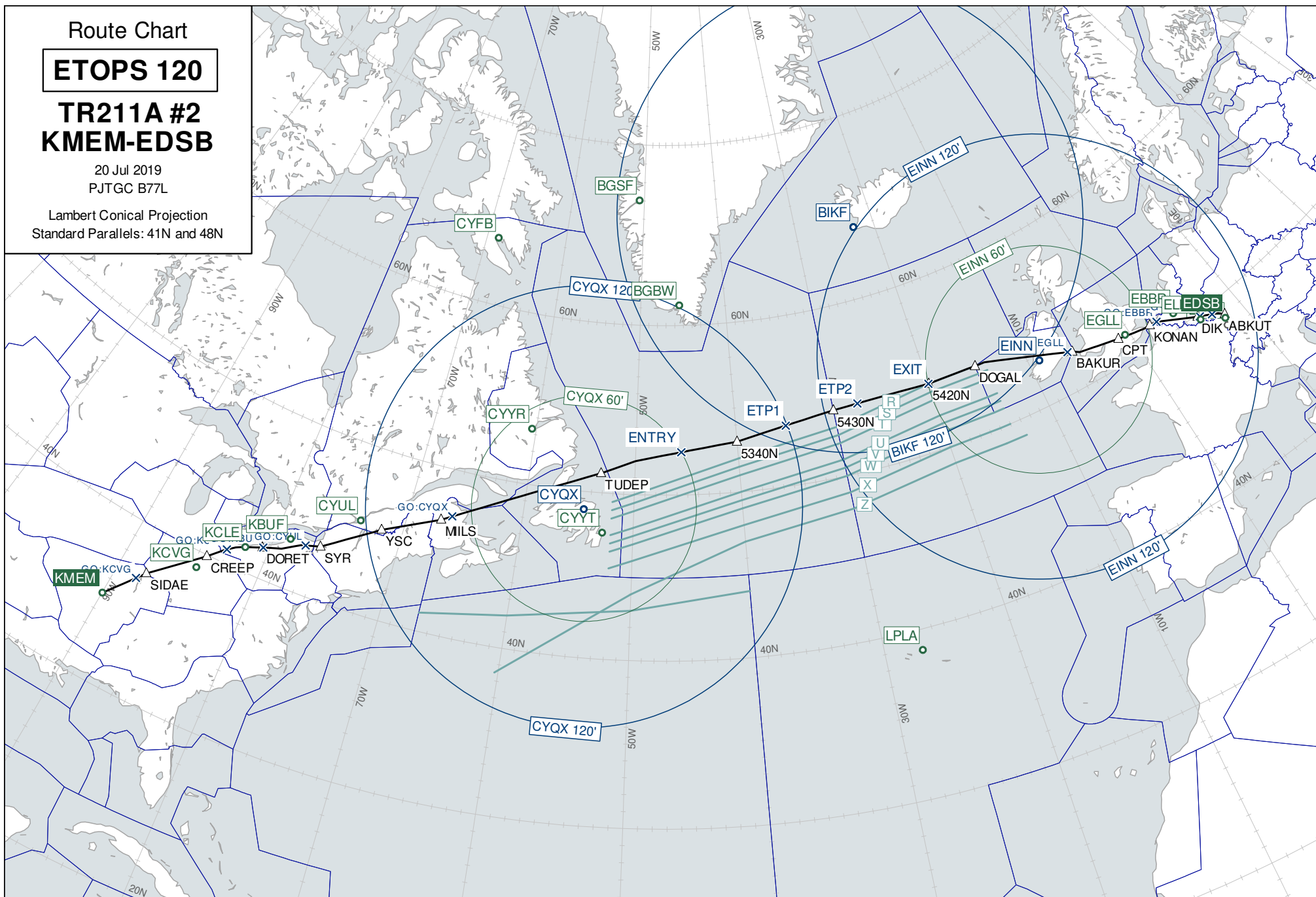
Route Chart

**ETOPS 120**

**TR211A #2  
KMEM-EDSB**

20 Jul 2019  
PJTGC B77L

Lambert Conical Projection  
Standard Parallels: 41N and 48N



# Wind Chart

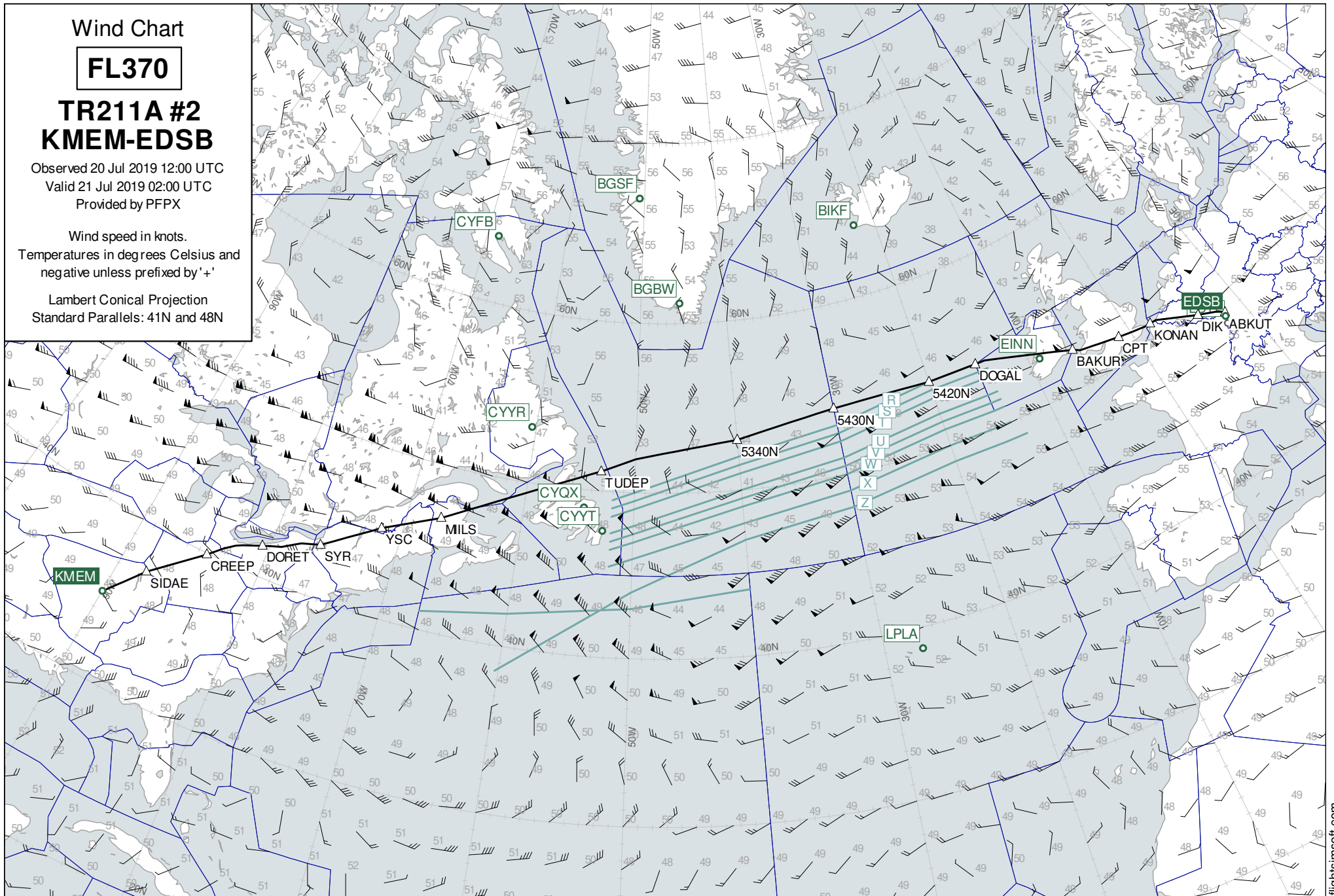
## FL370

### TR211A #2 KMEM-EDSB

Observed 20 Jul 2019 12:00 UTC  
Valid 21 Jul 2019 02:00 UTC  
Provided by PFPX

Wind speed in knots.  
Temperatures in degrees Celsius and  
negative unless prefixed by '+'

Lambert Conical Projection  
Standard Parallels: 41N and 48N



# Wind Chart

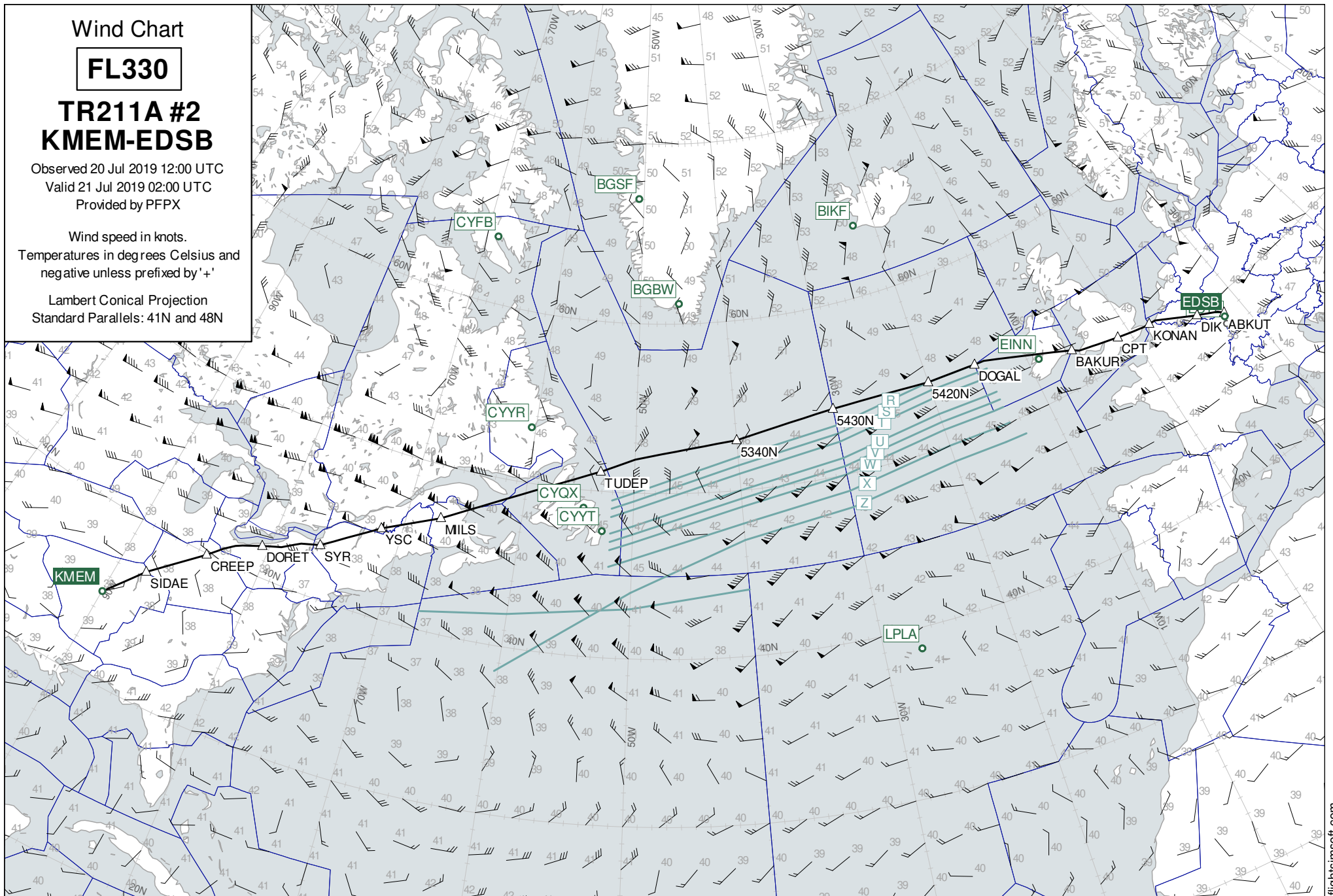
## FL330

### TR211A #2 KMEM-EDSB

Observed 20 Jul 2019 12:00 UTC  
Valid 21 Jul 2019 02:00 UTC  
Provided by PFPX

Wind speed in knots.  
Temperatures in degrees Celsius and  
negative unless prefixed by '+'

Lambert Conical Projection  
Standard Parallels: 41N and 48N



# Wind Chart

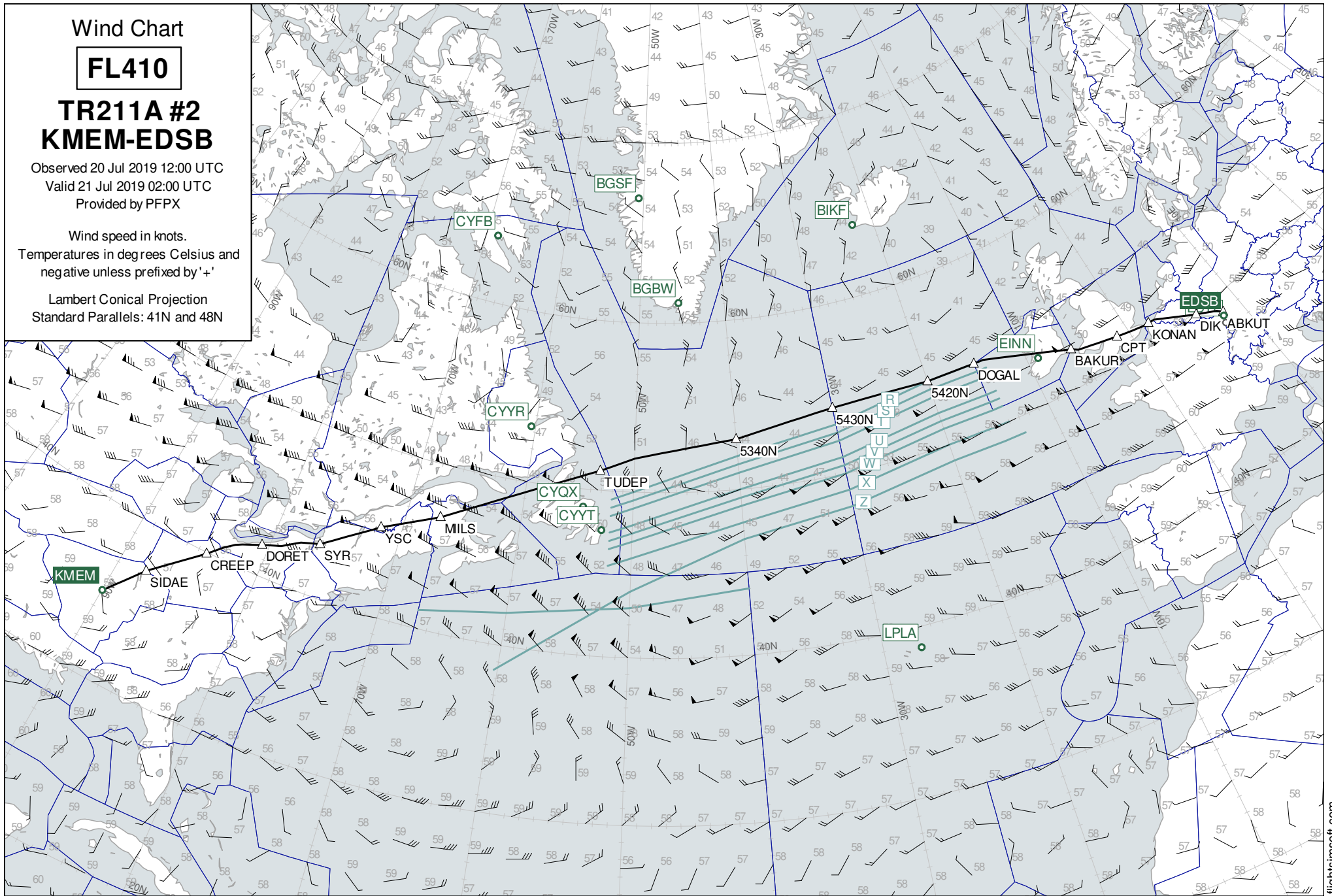
## FL410

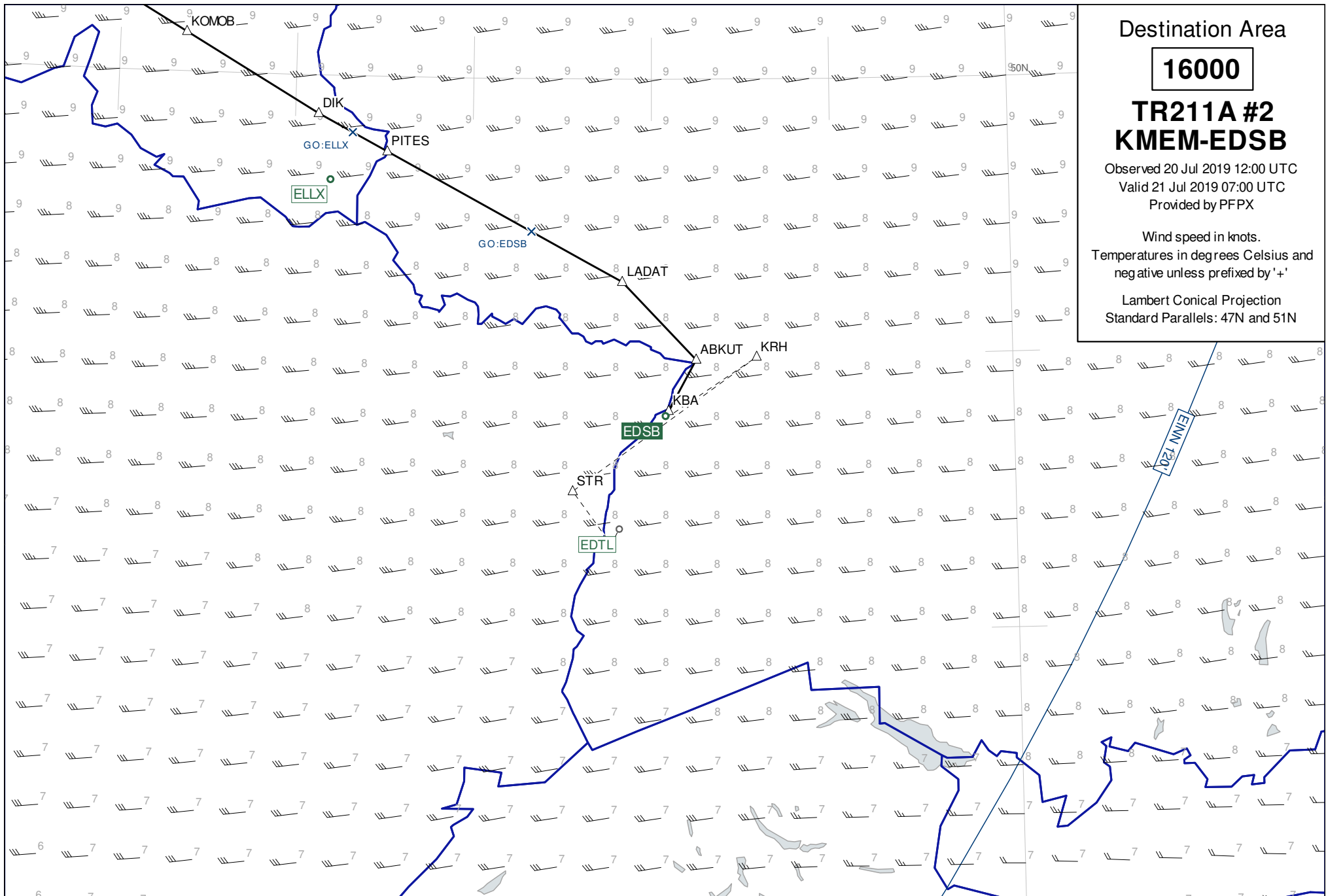
### TR211A #2 KMEM-EDSB

Observed 20 Jul 2019 12:00 UTC  
Valid 21 Jul 2019 02:00 UTC  
Provided by PFPX

Wind speed in knots.  
Temperatures in degrees Celsius and  
negative unless prefixed by '+'

Lambert Conical Projection  
Standard Parallels: 41N and 48N





Destination Area

**16000**

**TR211A #2**  
**KMEM-EDSB**

Observed 20 Jul 2019 12:00 UTC

Valid 21 Jul 2019 07:00 UTC

Provided by PFPX

Wind speed in knots.

Temperatures in degrees Celsius and  
negative unless prefixed by '+'

Lambert Conical Projection  
Standard Parallels: 47N and 51N

# Plotting Chart TR211A #2 KMEM-EDSB

20 Jul 2019  
PJTGC B77L

Lambert Conical Projection  
Standard Parallels: 51N and 52N

