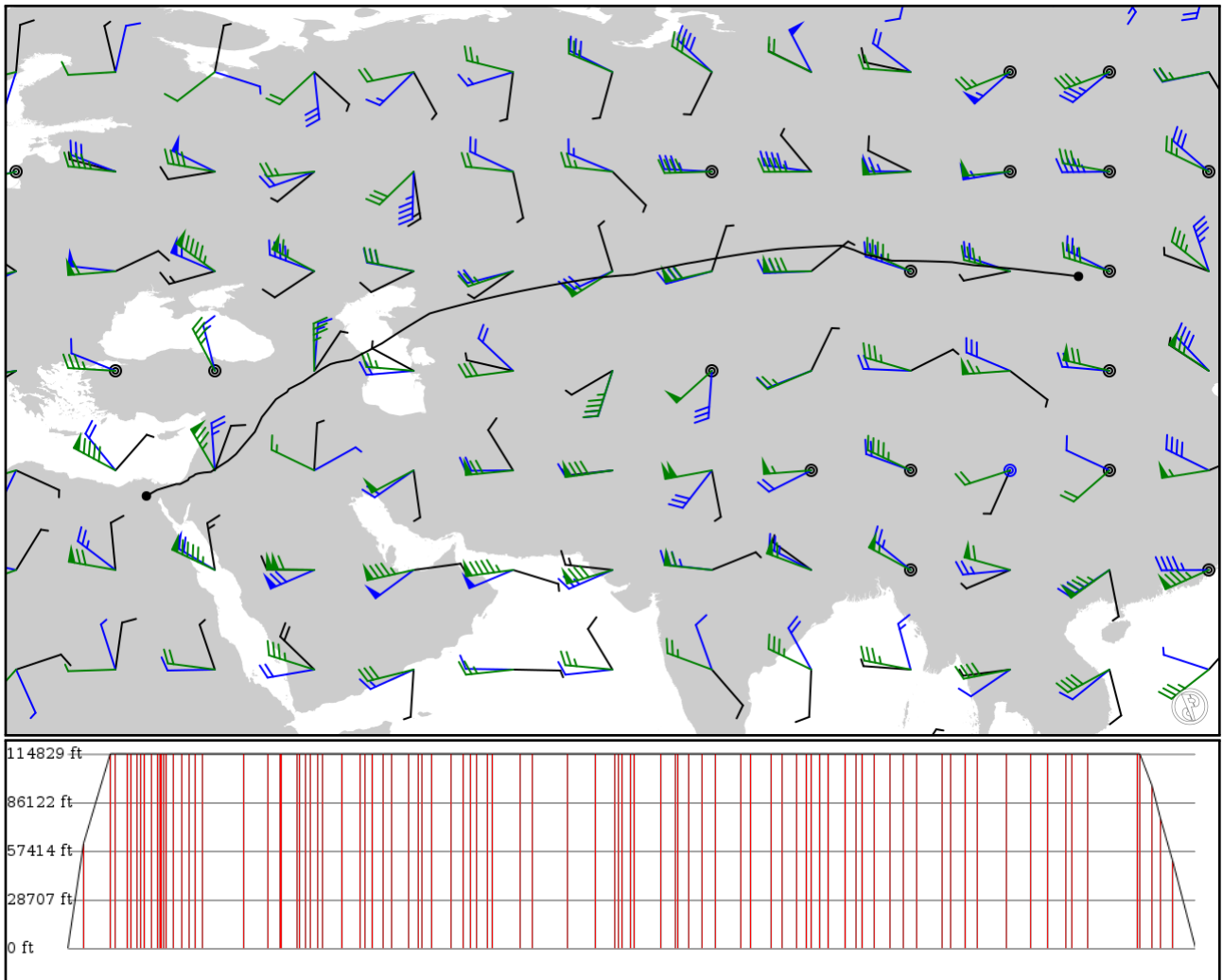


2024/05/07 1258Z

HECA LONIR **V606** EGORA RAHAT **Y84** BOFIR ESTER GOBRI OSAMA **L200** LUDAN **A412** TAN **UL572** KML LESRI **UT333**  
BEYAZ ESENK AGINA GOSIS **T919** PEMAN **N996** SUBUT **T916** LEYLA **N161** GASBI **G161** MASAV **G155** DZG **R366**  
NOPUS **G230** GEREL ZMUB

3611.86 nm / 6689.17 km



## Notes

Basic altitude profile:

- Ascent Rate: 2500ft/min
- Ascent Speed: 250kts
- Cruise Altitude: 35000ft
- Cruise Speed: 420kts
- Descent Rate: 1500ft/min
- Descent Speed: 250kts

Options:

- Use NATs: yes
- Use PACOTS: yes
- Use low airways: yes

- Use high airways: yes

## Route

Ident Type	Via	Lat Lon	Alt	Dist (nm)	Name
HECA	-	30.11140	0 ft	-	Cairo Intl
APT	-	31.41390	0 m		
LONIR	-	30.60000	18,900 ft	53	-
FIX	-	32.26830	5,761 m		
ARH	V606	31.07300	35,000 ft	85	EL ARISH
VOR	AWY-HI	33.83190	10,668 m		
EGORA	V606	31.06690	35,000 ft	15	-
FIX	AWY-HI	34.13500	10,668 m		
RAHAT	-	31.40000	35,000 ft	38	-
FIX	-	34.78500	10,668 m		
BOFIR	Y84	31.57530	35,000 ft	11	-
FIX	AWY-LO	34.88530	10,668 m		
ESTER	-	31.74280	35,000 ft	20	-
FIX	-	35.22830	10,668 m		
GOBRI	-	31.86420	35,000 ft	10	-
FIX	-	35.37890	10,668 m		
OSAMA	-	31.93060	35,000 ft	12	-
FIX	-	35.61830	10,668 m		
AMN01	L200	32.00410	35,000 ft	23	-
FIX	AWY-HI	36.06600	10,668 m		
LOXER	L200	32.02990	35,000 ft	16	-
FIX	AWY-HI	36.38100	10,668 m		
MESLO	L200	32.04190	35,000 ft	7	-
FIX	AWY-HI	36.53000	10,668 m		
LUDAN	L200	32.04910	35,000 ft	4	-
FIX	AWY-HI	36.62040	10,668 m		
KUPRI	A412	32.14050	35,000 ft	8	-
FIX	AWY-HI	36.75840	10,668 m		
ASLON	A412	32.20310	35,000 ft	6	-
FIX	AWY-HI	36.85310	10,668 m		
NADEK	A412	32.45780	35,000 ft	24	-
FIX	AWY-HI	37.24140	10,668 m		
DAXEN	A412	32.74580	35,000 ft	28	-
FIX	AWY-HI	37.68480	10,668 m		
ZELAF	A412	32.94890	35,000 ft	20	-
FIX	AWY-HI	37.99980	10,668 m		
RAFIF	A412	33.21310	35,000 ft	22	-
FIX	AWY-HI	38.32190	10,668 m		
TAN	A412	33.48240	35,000 ft	23	TANF
VOR	AWY-HI	38.65410	10,668 m		
DRZ	UL572	35.28910	35,000 ft	132	DEIR-ZZOR
NDB	AWY-HI	40.18740	10,668 m		
HAS	UL572	36.48290	35,000 ft	76	HASSAKEH
NDB	AWY-HI	40.75440	10,668 m		
KML	UL572	37.01670	35,000 ft	38	KAMISHLY
VOR	AWY-HI	41.18510	10,668 m		
LESRI	-	37.07220	35,000 ft	3	-
FIX	-	41.23030	10,668 m		
ESOTA	UT333	37.77000	35,000 ft	49	-
FIX	AWY-HI	41.77250	10,668 m		
SRT	UT333	37.91070	35,000 ft	9	SIIRT
VOR	AWY-HI	41.88200	10,668 m		
EMBAG	UT333	38.12670	35,000 ft	20	-

Ident Type	Via	Lat Lon	Alt	Dist (nm)	Name
FIX	AWY-HI	42.20860	10,668 m		
LIVDO	UT333	38.26140	35,000 ft	12	-
FIX	AWY-HI	42.41390	10,668 m		
BEYAZ	UT333	38.50500	35,000 ft	22	-
FIX	AWY-HI	42.78810	10,668 m		
ESENK	-	38.74470	35,000 ft	16	-
FIX	-	42.93810	10,668 m		
AGINA	-	39.32330	35,000 ft	63	-
FIX	-	44.08670	10,668 m		
GOSIS	-	39.94720	35,000 ft	55	-
FIX	-	44.98610	10,668 m		
DEKIT	T919	40.13330	35,000 ft	16	-
FIX	AWY-HI	45.25940	10,668 m		
PEMAN	T919	40.39110	35,000 ft	23	-
FIX	AWY-HI	45.64220	10,668 m		
GND	N996	40.75350	35,000 ft	36	GANJA
VOR	AWY-HI	46.29550	10,668 m		
SUBUT	N996	40.89920	35,000 ft	25	-
FIX	AWY-HI	46.82190	10,668 m		
LEYLA	T916	41.10920	35,000 ft	53	-
FIX	AWY-HI	47.98030	10,668 m		
OKTAT	N161	41.42330	35,000 ft	32	-
FIX	AWY-HI	48.55330	10,668 m		
LEKBA	N161	41.52670	35,000 ft	10	-
FIX	AWY-HI	48.73830	10,668 m		
ABTEK	N161	41.81080	35,000 ft	30	-
FIX	AWY-HI	49.30560	10,668 m		
GASBI	N161	42.43670	35,000 ft	64	-
FIX	AWY-HI	50.47000	10,668 m		
AKUKU	G161	42.84330	35,000 ft	36	-
FIX	AWY-HI	51.08580	10,668 m		
LUMUR	G161	43.11080	35,000 ft	24	-
FIX	AWY-HI	51.49810	10,668 m		
BALIG	G161	43.32890	35,000 ft	19	-
FIX	AWY-HI	51.83830	10,668 m		
NEPIL	G161	43.69250	35,000 ft	33	-
FIX	AWY-HI	52.41530	10,668 m		
BANRA	G161	43.88220	35,000 ft	17	-
FIX	AWY-HI	52.72080	10,668 m		
BODSI	G161	44.84280	35,000 ft	89	-
FIX	AWY-HI	54.32060	10,668 m		
MASAV	G161	45.08530	35,000 ft	39	-
FIX	AWY-HI	55.18140	10,668 m		
DIVNO	G155	45.73830	35,000 ft	111	-
FIX	AWY-HI	57.66670	10,668 m		
ABDUN	G155	46.22690	35,000 ft	90	-
FIX	AWY-HI	59.72110	10,668 m		
IDROS	G155	46.52530	35,000 ft	59	-
FIX	AWY-HI	61.08780	10,668 m		
AMUGA	G155	46.58280	35,000 ft	11	-
FIX	AWY-HI	61.36280	10,668 m		
BELIK	G155	46.64330	35,000 ft	12	-
FIX	AWY-HI	61.64280	10,668 m		
UNEDO	G155	46.77530	35,000 ft	28	-
FIX	AWY-HI	62.30890	10,668 m		
RITET	G155	46.82690	35,000 ft	11	-

Ident Type	Via	Lat Lon	Alt	Dist (nm)	Name
FIX	AWY-HI	62.57140	10,668 m		
ARKAM	G155	47.19310	35,000 ft	83	-
FIX	AWY-HI	64.53890	10,668 m		
GATLU	G155	47.38610	35,000 ft	46	-
FIX	AWY-HI	65.65080	10,668 m		
TIROK	G155	47.41560	35,000 ft	8	-
FIX	AWY-HI	65.84360	10,668 m		
ABURA	G155	47.56250	35,000 ft	36	-
FIX	AWY-HI	66.72000	10,668 m		
DZG	G155	47.72140	35,000 ft	43	ZHEZKAZGAN
VOR	AWY-HI	67.76150	10,668 m		
AMASO	R366	47.82060	35,000 ft	42	-
FIX	AWY-HI	68.81580	10,668 m		
KUROL	R366	47.98330	35,000 ft	80	-
FIX	AWY-HI	70.80000	10,668 m		
ALEGA	R366	48.15000	35,000 ft	31	-
FIX	AWY-HI	71.54690	10,668 m		
LUTEK	R366	48.48140	35,000 ft	64	-
FIX	AWY-HI	73.08310	10,668 m		
GONEL	R366	48.65330	35,000 ft	37	-
FIX	AWY-HI	73.98670	10,668 m		
IRGIT	R366	48.87220	35,000 ft	45	-
FIX	AWY-HI	75.07670	10,668 m		
LALAS	R366	48.99470	35,000 ft	30	-
FIX	AWY-HI	75.83720	10,668 m		
GORBO	R366	49.05440	35,000 ft	14	-
FIX	AWY-HI	76.18330	10,668 m		
ESUMA	R366	49.17360	35,000 ft	26	-
FIX	AWY-HI	76.83500	10,668 m		
AKASA	R366	49.30530	35,000 ft	30	-
FIX	AWY-HI	77.58190	10,668 m		
NONRI	R366	49.51970	35,000 ft	52	-
FIX	AWY-HI	78.87310	10,668 m		
UVTOK	R366	49.65670	35,000 ft	35	-
FIX	AWY-HI	79.75670	10,668 m		
ROKOD	R366	49.73560	35,000 ft	21	-
FIX	AWY-HI	80.28860	10,668 m		
NOKNA	R366	49.86500	35,000 ft	35	-
FIX	AWY-HI	81.19420	10,668 m		
UKM	R366	50.03290	35,000 ft	51	UST-KAMENOGORSK
VOR	AWY-HI	82.50860	10,668 m		
DEVNA	R366	50.11310	35,000 ft	42	-
FIX	AWY-HI	83.60530	10,668 m		
GOMIR	R366	50.17830	35,000 ft	42	-
FIX	AWY-HI	84.70170	10,668 m		
ADOBA	R366	50.29030	35,000 ft	84	-
FIX	AWY-HI	86.88190	10,668 m		
AKTAS	R366	50.31690	35,000 ft	26	-
FIX	AWY-HI	87.58280	10,668 m		
KOPOK	R366	49.96690	35,000 ft	45	-
FIX	AWY-HI	88.63280	10,668 m		
NOPUS	R366	49.63330	35,000 ft	36	-
FIX	AWY-HI	89.43330	10,668 m		
UGOBI	G230	49.09560	35,000 ft	94	-
FIX	AWY-HI	91.69970	10,668 m		
ALTAN	G230	49.07140	35,000 ft	79	-

Ident Type	Via	Lat Lon	Alt	Dist (nm)	Name
FIX	AWY-HI	93.72970	10,668 m		
ERDEM	G230	49.03610	35,000 ft	53	-
FIX	AWY-HI	95.09560	10,668 m		
TUDEV	G230	48.98280	35,000 ft	56	-
FIX	AWY-HI	96.53830	10,668 m		
PIKOM	G230	48.92060	35,000 ft	18	-
FIX	AWY-HI	96.98810	10,668 m		
TC	G230	48.74030	35,000 ft	51	TOSONTSENGEL
NDB	AWY-HI	98.27420	10,668 m		
EMAND	G230	48.36310	35,000 ft	161	-
FIX	AWY-HI	102.28700	10,668 m		
LAGON	G230	48.34330	35,000 ft	7	-
FIX	AWY-HI	102.46300	10,668 m		
SARAN	G230	48.23190	29,300 ft	38	-
FIX	AWY-HI	103.41000	8,931 m		
ASGAT	G230	48.14420	23,400 ft	27	-
FIX	AWY-HI	104.08300	7,132 m		
GEREL	G230	48.05920	15,800 ft	35	-
FIX	AWY-HI	104.96700	4,816 m		
ZMUB	-	47.83440	0 ft	73	CHINGGIS KHAAN INTL
APT	-	106.77000	0 m		

## HECA

Region: EGYPT  
Timezone: AFRICA/CAIRO  
Runways: 3

Elevation: 466 ft / 142 m  
Location: 30.111400 31.413900  
Magnetic Var: 4.950 E

## METAR

HECA 071200Z 03008KT CAVOK 26/07 Q1016

## TAF

TAF HECA 071100Z 0712/0818 33009KT CAVOK BECMG 0718/0720 03008KT

## Frequencies

REC - 122.60 MHz - ATIS  
GND - 121.90 MHz - CAIRO GROUND NORTH  
APP - 119.05 MHz - CAIRO APPROACH  
GND - 120.40 MHz - CAIRO GROUND SOUTH  
TWR - 118.10 MHz - CAIRO TOWER

## Runways

Ident	Width	Length	Bearing (true) (mag)	Surface	Threshold Offset	Overrun Length
05R	197 ft	13,135 ft	49.04	ASPHALT	0 ft	217 ft
	60 m	4,004 m	44.09		0 m	66 m
23L	197 ft	13,135 ft	229.05	ASPHALT	0 ft	226 ft
	60 m	4,004 m	224.10		0 m	69 m
05C	197 ft	13,132 ft	49.04	ASPHALT	0 ft	217 ft
	60 m	4,003 m	44.09		0 m	66 m
23C	197 ft	13,132 ft	229.05	ASPHALT	0 ft	226 ft
	60 m	4,003 m	224.10		0 m	69 m
05L	197 ft	10,840 ft	49.29	ASPHALT	0 ft	184 ft
	60 m	3,304 m	44.34		0 m	56 m
23R	197 ft	10,840 ft	229.30	ASPHALT	0 ft	184 ft
	60 m	3,304 m	224.35		0 m	56 m

## Approach Nav aids

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
05L	DME	CRL	110.90 MHz	18 nm	-	-	230 ft
				33 km	-		230 m
05R	DME	IROT	109.90 MHz	18 nm	-	-	430 ft
				33 km	-		430 m
23L	DME	ILOT	109.50 MHz	18 nm	-	-	420 ft
				33 km	-		420 m
23R	DME	CRR	110.30 MHz	18 nm	-	-	230 ft
				33 km	-		230 m
05L	LOC-ILS	IZFL	110.90 MHz	18 nm	49.30	-	466 ft
				33 km	44.35		466 m
05C	LOC-ILS	IZFC	109.90 MHz	18 nm	49.04	-	466 ft
				33 km	44.09		466 m
05R	LOC-ILS	IZFR	108.90 MHz	18 nm	49.05	-	466 ft
				33 km	44.10		466 m
23L	LOC-ILS	ITTL	108.70 MHz	18 nm	229.05	-	466 ft
				33 km	224.10		466 m
23C	LOC-ILS	ITTC	109.50 MHz	18 nm	229.04	-	466 ft
				33 km	224.09		466 m
23R	LOC-ILS	ITTR	110.30 MHz	18 nm	229.30	-	466 ft

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
				33 km	224.35		466 m
05L	GS	IZFL	110.90 MHz	10 nm	49.30	3.00	466 ft
				19 km	44.35		466 m
05C	GS	IZFC	109.90 MHz	10 nm	49.04	3.00	466 ft
				19 km	44.09		466 m
05R	GS	IZFR	108.90 MHz	10 nm	49.05	3.00	466 ft
				19 km	44.10		466 m
23L	GS	ITTL	108.70 MHz	10 nm	229.05	3.00	466 ft
				19 km	224.10		466 m
23C	GS	ITTC	109.50 MHz	10 nm	229.04	3.00	466 ft
				19 km	224.09		466 m
23R	GS	ITTR	110.30 MHz	10 nm	229.30	3.00	466 ft
				19 km	224.35		466 m



## ZMUB

Region: MONGOLIA  
Timezone: ASIA/ULAANBAATAR  
Runways: 2

Elevation: 4,363 ft / 1,330 m  
Location: 47.834400 106.770000  
Magnetic Var: 4.938 W

## METAR

ZMUB 071200Z VRB02MPS 9999 FEW033 SCT100 20/M01 Q1013 NOSIG

## TAF

TAF TAF ZMUB 071040Z 0712/0818 VRB02MPS 9999 FEW030CB SCT033 TN05/0723Z TX16/0807Z BECMG 0715/0718 34006MPS BECMG

## Frequencies

REC - 126.00 MHz - ATIS

APP - 120.00 MHz - ULAANBATAR APPROACH

TWR - 120.00 MHz - ULAANBAATAR TOWER

## Runways

Ident	Width	Length	Bearing (true) (mag)	Surface	Threshold Offset	Overrun Length
14	200 ft	10,181 ft	138.21	ASPHALT	0 ft	0 ft
	61 m	3,103 m	143.15		0 m	0 m
32	200 ft	10,181 ft	318.24	ASPHALT	0 ft	0 ft
	61 m	3,103 m	323.17		0 m	0 m
15	131 ft	6,245 ft	146.30	DIRT	0 ft	0 ft
	40 m	1,903 m	151.24		0 m	0 m
33	131 ft	6,245 ft	326.31	DIRT	0 ft	0 ft
	40 m	1,903 m	331.25		0 m	0 m

## Approach Nav aids

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
14	LOC-ILS	IDA	110.30 MHz	18 nm	138.23	-	4,363 ft
				33 km	143.17		4,363 m
14	GS	IDA	110.30 MHz	10 nm	138.23	2.67	4,363 ft
				19 km	143.17		4,363 m