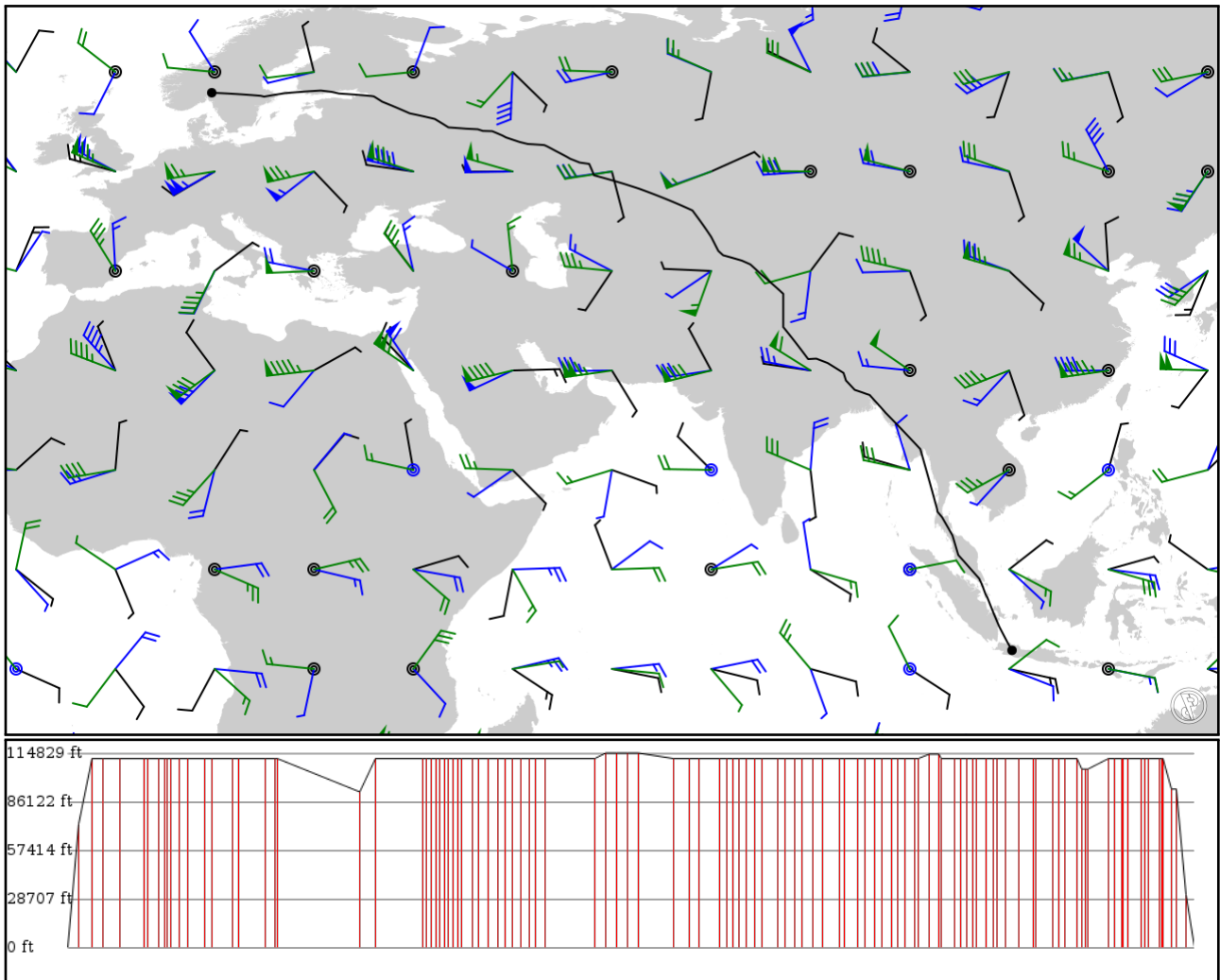


2024/05/14 1044Z

WICC DKI **W12E** BIKAL **B469** SJ **G579** VJR **R325** VIH **A464** HTY **W17** RAN KT **V9** BGO **G463** RAJ **R344** KTM **W41**
PUTAN 3200N08000E 3300N08000E 3400N08000E 3500N08000E 3600N08000E SCH **A364** KHG 4000N07500E OSH
A352 ARBOL **A73** OBAMA **A113** AKB **A360** SL **G549** DW **R346** UD01 **R480** CW **R489** MF NE **R815** BD **B160** KOLPI **R30**
GOGLA **UT86** VTI **UN873** LINSa **UP607** MEGEN **P607** SUTOK ENGM

6244.38 nm / 11564.60 km



Notes

Basic altitude profile:

- Ascent Rate: 2500ft/min
- Ascent Speed: 250kts
- Cruise Altitude: 35000ft
- Cruise Speed: 510kts
- 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
WICC APT	-	-6.90063 107.57629	0 ft 0 m	-	Bandun Husein Sastranegara
DKI VOR	-	-5.96119 107.03552	22,200 ft 6,767 m	64	JAKARTA VOR-DME
BIKAL FIX	W12E AWY-HI	-4.87884 106.46830	34,000 ft 10,363 m	73	-
BIDAK FIX	B469 AWY-HI	-4.04127 106.03206	34,000 ft 10,363 m	56	-
TODAK FIX	B469 AWY-HI	-2.52186 105.38828	34,000 ft 10,363 m	99	-
NE NDB	B469 AWY-HI	-0.48300 104.57599	34,000 ft 10,363 m	131	SINGKEP NDB
NE020 FIX	B469 AWY-HI	-0.20827 104.40486	34,000 ft 10,363 m	19	-
BAVAL FIX	B469 AWY-HI	0.75500 104.04500	34,000 ft 10,363 m	61	-
SJ VOR	B469 AWY-HI	1.22259 103.85423	34,000 ft 10,363 m	30	SINJON VOR-DME
JB NDB	G579 AWY-HI	1.49994 103.71162	34,000 ft 10,363 m	18	-
VJR VOR	G579 AWY-HI	1.72986 103.62164	34,000 ft 10,363 m	14	JOHOR BAHRU VOR-DME
DAMAL FIX	R325 AWY-HI	2.33194 103.08667	34,000 ft 10,363 m	48	-
LATUK FIX	R325 AWY-HI	2.92111 102.56278	34,000 ft 10,363 m	47	-
ANSOM FIX	R325 AWY-HI	4.07333 101.53861	34,000 ft 10,363 m	92	-
VIH VOR	R325 AWY-HI	4.57303 101.09361	34,000 ft 10,363 m	40	IPOH VOR-DME
KARMI FIX	A464 AWY-HI	6.49444 100.52250	34,000 ft 10,363 m	120	-
HTY VOR	A464 AWY-HI	6.93410 100.38791	34,000 ft 10,363 m	27	HAT YAI VOR-DME
STN VOR	W17 AWY-HI	9.12951 99.13475	34,000 ft 10,363 m	151	SURAT THANI VOR-DME
RAN VOR	W17 AWY-HI	9.77866 98.58392	34,000 ft 10,363 m	50	RANONG VOR-DME
KT NDB	-	10.05178 98.54967	34,000 ft 10,363 m	16	KAWTHOUNG NDB
BGO VOR	V9 AWY-HI	17.31961 96.51647	28,000 ft 8,534 m	452	BAGO VOR-DME
NIVOG FIX	G463 AWY-HI	18.45119 95.44656	34,000 ft 10,363 m	91	-
AVLED FIX	G463 AWY-HI	21.66756 92.34686	34,000 ft 10,363 m	260	-
TANAP FIX	G463 AWY-HI	21.94083 92.11028	34,000 ft 10,363 m	21	-
CTG VOR	G463 AWY-HI	22.25774 91.82748	34,000 ft 10,363 m	24	CHITTAGONG VOR-DME
ONEKA FIX	G463 AWY-HI	22.58000 91.53722	34,000 ft 10,363 m	25	-
DAC75	G463	22.86743	34,000 ft	22	-

Ident Type	Via	Lat Lon	Alt	Dist (nm)	Name
FIX	AWY-HI	91.28030	10,363 m		
ADMIL	G463	23.18083	34,000 ft	24	-
FIX	AWY-HI	90.99056	10,363 m		
KANDI	G463	23.50361	34,000 ft	25	-
FIX	AWY-HI	90.70139	10,363 m		
DAC	G463	23.82468	34,000 ft	24	DHAKA VOR-DME
VOR	AWY-HI	90.41260	10,363 m		
OLPAS	G463	23.95889	34,000 ft	23	-
FIX	AWY-HI	90.00139	10,363 m		
BATEL	G463	24.11167	34,000 ft	24	-
FIX	AWY-HI	89.58222	10,363 m		
RAJ	G463	24.44004	34,000 ft	56	RAJSHAHI VOR
VOR	AWY-HI	88.61502	10,363 m		
REDAP	R344	24.90054	34,000 ft	36	-
FIX	AWY-HI	88.18481	10,363 m		
KH	R344	25.56714	34,000 ft	52	KATIHAR NDB
NDB	AWY-HI	87.55572	10,363 m		
BRT	R344	26.48083	34,000 ft	57	BIRATNAGAR VOR-DME
VOR	AWY-HI	87.26306	10,363 m		
CHURE	R344	26.86333	34,000 ft	40	-
FIX	AWY-HI	86.65194	10,363 m		
AHALE	R344	27.19667	34,000 ft	34	-
FIX	AWY-HI	86.11806	10,363 m		
KTM	R344	27.67472	34,000 ft	50	KATHMANDU VOR-DME
VOR	AWY-HI	85.34917	10,363 m		
MANKA	W41	28.00778	34,000 ft	50	-
FIX	AWY-HI	84.48528	10,363 m		
PHR	W41	28.20056	34,000 ft	28	POKHARA NDB-DME
NDB	AWY-HI	83.98444	10,363 m		
PUTAN	W41	28.14460	34,000 ft	52	-
FIX	AWY-HI	82.99793	10,363 m		
3200N08000E	-	32.00000	34,000 ft	279	-
LATLON	-	80.00000	10,363 m		
3300N08000E	-	33.00000	35,000 ft	60	-
LATLON	-	80.00000	10,668 m		
3400N08000E	-	34.00000	35,000 ft	60	-
LATLON	-	80.00000	10,668 m		
3500N08000E	-	35.00000	35,000 ft	60	-
LATLON	-	80.00000	10,668 m		
3600N08000E	-	36.00000	35,000 ft	60	-
LATLON	-	80.00000	10,668 m		
SCH	-	38.42833	34,000 ft	196	SHACHE VOR-DME
VOR	-	77.24000	10,363 m		
KHG	A364	39.54667	34,000 ft	87	KASHI VOR-DME
VOR	AWY-HI	76.02333	10,363 m		
4000N07500E	-	40.00000	34,000 ft	54	-
LATLON	-	75.00000	10,363 m		
OSH	-	40.63667	34,000 ft	110	-
VOR	-	72.74333	10,363 m		
NS	A352	41.16667	34,000 ft	41	NARYN-GES NDB
NDB	AWY-HI	72.16667	10,363 m		
SORAM	A352	41.73167	34,000 ft	36	-
FIX	AWY-HI	71.87833	10,363 m		
KESOR	A352	42.25333	34,000 ft	33	-
FIX	AWY-HI	71.61333	10,363 m		
DEMAS	A352	42.79167	34,000 ft	34	-

Ident Type	Via	Lat Lon	Alt	Dist (nm)	Name
FIX	AWY-HI	71.33500	10,363 m		
UADD	A352	42.85353	34,000 ft	3	TARAZ
APT	AWY-HI	71.30369	10,363 m		
ARBOL	A352	43.51528	34,000 ft	44	-
FIX	AWY-HI	70.86028	10,363 m		
GAMBU	A73	44.18500	34,000 ft	44	-
FIX	AWY-HI	70.40028	10,363 m		
MIRGA	A73	45.40444	34,000 ft	82	-
FIX	AWY-HI	69.51417	10,363 m		
OBAMA	A73	46.03667	34,000 ft	42	-
FIX	AWY-HI	69.04250	10,363 m		
ELSEB	A113	46.54278	34,000 ft	55	-
FIX	AWY-HI	67.91083	10,363 m		
ATRUS	A113	46.88389	34,000 ft	38	-
FIX	AWY-HI	67.12083	10,363 m		
TIROK	A113	47.41556	34,000 ft	61	-
FIX	AWY-HI	65.84361	10,363 m		
SUBOL	A113	47.85194	34,000 ft	51	-
FIX	AWY-HI	64.74778	10,363 m		
GEDSA	A113	48.62722	34,000 ft	94	-
FIX	AWY-HI	62.68167	10,363 m		
ADODI	A113	48.84000	34,000 ft	28	-
FIX	AWY-HI	62.03278	10,363 m		
MANAD	A113	49.34694	34,000 ft	70	-
FIX	AWY-HI	60.41444	10,363 m		
OTKAS	A113	49.62417	34,000 ft	40	-
FIX	AWY-HI	59.48222	10,363 m		
RIGDO	A113	49.99361	34,000 ft	55	-
FIX	AWY-HI	58.18028	10,363 m		
AKB	A113	50.26306	34,000 ft	41	AKTYUBINSK VOR-DME
VOR	AWY-HI	57.18389	10,363 m		
MULTA	A360	51.07833	34,000 ft	50	-
FIX	AWY-HI	56.84500	10,363 m		
VL	A360	51.63333	34,000 ft	34	ZHELTOYE NDB
NDB	AWY-HI	56.60000	10,363 m		
UWOO	A360	51.79579	34,000 ft	43	ORENBURG
APT	AWY-HI	55.45675	10,363 m		
PO	A360	52.25000	34,000 ft	50	PRETORIA NDB
NDB	AWY-HI	54.31667	10,363 m		
VENOK	A360	52.50000	34,000 ft	21	-
FIX	AWY-HI	53.88333	10,363 m		
PEKUR	A360	53.19000	34,800 ft	63	-
FIX	AWY-HI	52.56667	10,607 m		
NANKA	A360	53.75000	34,800 ft	50	-
FIX	AWY-HI	51.51500	10,607 m		
SL	A360	53.90000	34,000 ft	14	SUKHODOL NDB
NDB	AWY-HI	51.18333	10,363 m		
DW	G549	54.03333	34,000 ft	71	-
NDB	AWY-HI	49.18333	10,363 m		
UWLL	R346	54.26833	34,000 ft	36	-
APT	AWY-HI	48.22667	10,363 m		
GOTUN	R346	54.53833	34,000 ft	32	-
FIX	AWY-HI	47.41667	10,363 m		
BT	R346	54.81667	34,000 ft	33	ALATYR NDB
NDB	AWY-HI	46.58167	10,363 m		
DABER	R346	55.05000	34,000 ft	20	-

Ident Type	Via	Lat Lon	Alt	Dist (nm)	Name
FIX	AWY-HI	46.13333	10,363 m		
UD01	R346	55.56667	34,000 ft	51	-
APT	AWY-HI	44.91667	10,363 m		
MB	R480	55.60000	34,000 ft	38	CHERNUKHA NDB
NDB	AWY-HI	43.78139	10,363 m		
RP	R480	55.80000	34,000 ft	24	SOSNOVSKOYE NDB
NDB	AWY-HI	43.16472	10,363 m		
CW	R480	55.86778	34,000 ft	46	KRASNAYA GORBATKA NDB
NDB	AWY-HI	41.78444	10,363 m		
MF	R489	56.02611	34,000 ft	72	LARIONOVO NDB
NDB	AWY-HI	39.63417	10,363 m		
NE	-	57.03778	34,000 ft	81	NERL NDB
NDB	-	37.99528	10,363 m		
BD	R815	57.10778	34,000 ft	10	BOGDANOVO NDB
NDB	AWY-HI	37.71194	10,363 m		
DB	B160	57.71306	34,000 ft	95	POCHINOK NDB
NDB	AWY-HI	34.97194	10,363 m		
NUKOL	B160	58.08333	34,000 ft	34	-
FIX	AWY-HI	34.13111	10,363 m		
OKULO	B160	58.40333	34,000 ft	30	-
FIX	AWY-HI	33.38944	10,363 m		
UD	B160	59.11667	34,000 ft	69	CHUDOVO NDB
NDB	AWY-HI	31.65000	10,363 m		
NURMA	B160	59.50139	32,100 ft	29	-
FIX	AWY-HI	31.04417	9,784 m		
KOLPI	B160	59.74972	32,100 ft	19	-
FIX	AWY-HI	30.64750	9,784 m		
SPB	R30	59.80694	32,100 ft	11	SANKT-PETERBURG Pulkovo VOR-DM
VOR	AWY-HI	30.27472	9,784 m		
GOGLA	R30	60.10000	34,000 ft	116	-
FIX	AWY-HI	26.45667	10,363 m		
PVO	UT86	60.29438	34,000 ft	28	PORVOO VOR-DME
VOR	AWY-HI	25.58848	10,363 m		
VTI	UT86	60.45925	34,000 ft	41	VIHTI VOR-DME
VOR	AWY-HI	24.24407	10,363 m		
MAROM	UN873	60.44778	34,000 ft	5	-
FIX	AWY-HI	24.04361	10,363 m		
LAKUT	UN873	60.43806	34,000 ft	4	-
FIX	AWY-HI	23.87639	10,363 m		
TUNUS	UN873	60.38861	34,000 ft	23	-
FIX	AWY-HI	23.08639	10,363 m		
BUKOT	UN873	60.19611	34,000 ft	76	-
FIX	AWY-HI	20.54056	10,363 m		
MAR	UN873	60.14099	34,000 ft	18	MARIE VOR-DME
VOR	AWY-HI	19.91443	10,363 m		
DODAM	UN873	60.04444	34,000 ft	19	-
FIX	AWY-HI	19.30167	10,363 m		
LINSA	UN873	59.72453	34,000 ft	60	-
FIX	AWY-HI	17.41169	10,363 m		
ELTOK	UP607	59.82444	34,000 ft	13	-
FIX	AWY-HI	17.00000	10,363 m		
NARIT	UP607	59.84561	34,000 ft	7	-
FIX	AWY-HI	16.73906	10,363 m		
DEMOR	UP607	59.96125	28,500 ft	45	-
FIX	AWY-HI	15.24542	8,687 m		
MEGEN	UP607	60.01833	28,500 ft	25	-

Ident Type	Via	Lat Lon	Alt	Dist (nm)	Name
FIX	AWY-HI	14.40856	8,687 m		
SUTOK	P607	60.12750	9,500 ft	57	-
FIX	AWY-LO	12.51278	2,896 m		
ENGM	-	60.19451	0 ft	42	Oslo Gardermoen
APT	-	11.09900	0 m		

ENGM

Region: NORWAY
Timezone: EUROPE/OSLO
Runways: 2

Elevation: 681 ft / 208 m
Location: 60.194500 11.098900
Magnetic Var: 4.482 E

METAR

ENGM 141020Z 18009KT 150V220 CAVOK 20/04 Q1018 NOSIG

TAF

TAF ENGM 140500Z 1406/1506 VRB05KT CAVOK BECMG 1408/1410 19010KT BECMG 1420/1422 VRB03KT

Frequencies

REC - 126.12 MHz - GARDERMOEN ARRIVAL INFORMATION
CLD - 121.67 MHz - GARDERMOEN DELIVERY WEST
GND - 121.75 MHz - GARDERMOEN GROUND
GND - 121.90 MHz - GARDERMOEN GROUND EAST
TWR - 120.10 MHz - GARDERMOEN TOWER
APP - 120.45 MHz - OSLO APPROACH

REC - 127.15 MHz - GARDERMOEN DEPARTURE INFORMATION
CLD - 121.92 MHz - GARDERMOEN DELIVERY EAST
GND - 121.60 MHz - GARDERMOEN GROUND WEST
TWR - 118.30 MHz - GARDERMOEN TOWER
APP - 118.47 MHz - OSLO APPROACH

Runways

Ident	Width	Length	Bearing (true) (mag)	Surface	Threshold Offset	Overrun Length
01R	148 ft	9,664 ft	16.01	ASPHALT	0 ft	486 ft
	45 m	2,946 m	11.52		0 m	148 m
19L	148 ft	9,664 ft	196.02	ASPHALT	0 ft	489 ft
	45 m	2,946 m	191.54		0 m	149 m
01L	148 ft	11,797 ft	15.99	ASPHALT	0 ft	423 ft
	45 m	3,596 m	11.51		0 m	129 m
19R	148 ft	11,797 ft	196.01	ASPHALT	0 ft	486 ft
	45 m	3,596 m	191.53		0 m	148 m

Approach Nav aids

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
01L	DME	OBW	110.30 MHz	18 nm	-	-	709 ft
				33 km	-		709 m
01R	DME	ONE	111.95 MHz	18 nm	-	-	723 ft
				33 km	-		723 m
19L	DME	GME	110.55 MHz	18 nm	-	-	729 ft
				33 km	-		729 m
19R	DME	GSW	111.30 MHz	18 nm	-	-	727 ft
				33 km	-		727 m
01L	LOC-ILS	OBW	110.30 MHz	18 nm	16.00	-	681 ft
				33 km	11.52		681 m
01R	LOC-ILS	ONE	111.95 MHz	18 nm	16.04	-	681 ft
				33 km	11.56		681 m
19L	LOC-ILS	GME	110.55 MHz	18 nm	196.04	-	681 ft
				33 km	191.56		681 m
19R	LOC-ILS	GSW	111.30 MHz	18 nm	196.00	-	681 ft
				33 km	191.52		681 m
01L	GS	OBW	110.30 MHz	10 nm	16.00	3.00	681 ft
				19 km	11.52		681 m
01R	GS	ONE	111.95 MHz	10 nm	16.04	3.00	681 ft
				19 km	11.56		681 m

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
19L	GS	GME	110.55 MHz	10 nm	196.04	3.00	681 ft
				19 km	191.56		681 m
19R	GS	GSW	111.30 MHz	10 nm	196.00	3.00	681 ft
				19 km	191.52		681 m