

FS2000 London (Mildenhall, England) to Melbourne, Australia Race ... 1934

Cruise at 7000 ft. unless noted. -- Set Season to Summer.

Reset Time to "Day" for each leg

Navigation by Dead Reckoning and some NDBs -- Checkpoints are airports or NDBs.

The flights must be flown in the order shown below (or in the reverse direction AFTER the Australia-bound flight is complete)

Report flights as LM-00 through LM-47; or LM-00R thru LM-47R for the return.

0 Amsterdam, Netherlands to Mildenhall, England, EHAM to EGUN					LM-00.fsn flight plan
From	To	Freq.	Hdg	NM	Remarks
EHAM	CH NDB	388.5	243°	9.6	Dep Rwy 22, climb to 6000 ft. NOTE: Rwy 22 is the exact spot where the Dutch DC-2 began the historic race, which it won.
CH NDB	ND NDB	417.0	289°	106.5	Track 289° Outbound Bearing from CH NDB, then maintain hdg until able to recv ND NDB.
ND NDB	SDM NDB	348.5	273°	29.2	Begin 400 fpm descent 10 minutes after passing ND NDB
SDM NDB	EGUN	Rwy 29	228°	22.0	Land Rwy 29, Mildenhall AB. Field Elev=33 ft
Leg Dist =				167.3 NM	

1 Mildenhall, England to Auxerre, France; EGUN to LFLA					LM-01.fsn flight plan
From	To	Freq.	Hdg	NM	Remarks
EGUN	SND NDB	362.5	176°	48.9	Dep Rwy 11, climb to 7000 ft.
SND NDB	LYX NDB	397.0	170°	37.5	
LYX NDB	LT NDB	358.0	141°	35.5	
LT NDB	GI NDB	339.0	144°	54.1	Track 144° Outbound from LT NDB until GI NDB Rec'd
GI NDB	CGZ NDB	370.0	172°	51.2	Track 172° Outbound from GI NDB until CGZ NDB Rec'd
CGZ NDB	MV NDB	434.0	164°	28.7	
MV NDB	AX NDB	417.0	154°	43.4	Track 154° OB from MV NDB until AX NDB Rec'd -- Begin 400 fpm descent 5 minutes after passing MV NDB
AX NDB	LFLA	Rwy 19	185°	3.8	Land Rwy 19, Branches Apt. Field Elev=522 ft
Leg Dist =				303.1 NM	

2 Auxerre, France to Marseille, France; LFLA to LFML					LM-02.fsn flight plan
From	To	Freq.	Hdg	NM	Remarks
LFLA	MOU NDB	324.0	178°	69.3	Tune ADF to AX NDB, 417 KHz. Dep Rwy 19, climb to 7000 ft. Track 178° OB from AX NDB until MOU NDB Rec'd.
MOU NDB	BO NDB	299.0	161°	76.4	Track 161° OB from MOU NDB until BO NDB Rec'd.
BO NDB	ORG NDB	328.0	166°	85.8	Track 166° OB from BO NDB until ORG NDB Rec'd. (May be an interval between stations.)
ORG NDB	CM NDB	369.0	174°	14.4	
CM NDB	MAR NDB	383.0	160°	27.1	Begin 500 fpm descent at CM NDB
MAR NDB	LFML	Rwy 14L	135°	3.6	Land Rwy 14L, Provence Apt. Field Elev, 69 ft
Leg Dist =				276.6 NM	

3	Marseille, France to Figari, Corsica Is, France; LFML to LFKF					LM-03.fsn flight plan
	From	To	Freq.	Hdg	NM	Remarks
	LFML	OB NDB	395.0	123°	24.3	Dep Rwy 14L, climb to 7000 ft.
	OB NDB	TLN NDB	322.0	120°	24.4	
	TLN NDB	CT NDB	387.0	123°	136.0	Track 123° OB from TLN NDB until CT NDB Rec'd. (May be 60 NM or more interval between stations -- Fly Dead Reckoning.)
	CT NDB	SNE NDB	394.5	167°	14.7	Begin 500 fpm descent at CT NDB
	SNE NDB	LFKF	Rwy 5	107°	13.4	Land Rwy 5, Figari Apt. Field Elev, 82 ft
				Leg Dist =	212.8 NM	
4	Figari, Corsica Is, France to Rome, Italy; LFKF to LIRF					LM-04.fsn flight plan
	From	To	Freq.	Hdg	NM	Remarks
	LFKF	OST NDB	321.0	082°	142.7	Dep Rwy 5, climb to 7000 ft. Watch hdg; no Nav aids until across open water, 40 NM or so from Rome. That will be 100 NM of Dead Reckoning. flight. Turn on ADF Morse Ident. Begin 350 fpm descent 40 NM from LIRF.
	OST NDB	LIRF	Rwy 7		0.4	Land Rwy 7, Fiumicino Apt. Field Elev, 13 ft
				Leg Dist =	143.1 NM	
5	Rome, Italy to Brindisi, Italy; LIRF to LIBR					LM-05.fsn flight plan
	From	To	Freq.	Hdg	NM	Remarks
	LIRF	PRA NDB	339.0	135°	13.5	Dep Rwy 16L, climb to 7000 ft.
	PRA NDB	FRS NDB	371.0	093°	37.6	
	FRS NDB	TEA NDB	316.0	123°	37.1	
	TEA NDB	AME NDB	334.0	080°	84.9	Track 080° OB from TEA NDB until AME NDB Rec'd. (May be 10 NM or more interval between stations -- Fly Dead Reckoning.)
	AME NDB	BPL NDB	401.0	121°	43.8	
	BPL NDB	BRD NDB	363.5	113°	63.2	Track 113° OB from BPL NDB until BRD NDB Rec'd, then until Rwy 14 is in sight. Begin 350 fpm descent 40 NM from LIBR.
		LIBR	Rwy 14			Land Rwy 14, Casale Mil Apt. Field Elev, 46 ft
				Leg Dist =	280.1 NM	
6	Brindisi, Italy to Athens, Greece; LIBR to LGAT					LM-06.fsn flight plan
	From	To	Freq.	Hdg	NM	Remarks
	LIBR	BRD NDB	363.5	137°	5.4	Dep Rwy 14, climb to 9000 ft.
	BRD NDB	KEK NDB	403.0	122°	106.5	Track 122° OB from BRD NDB over open water until KEK NDB Rec'd. (May be 40 NM or more interval between stations -- Fly Dead Reckoning.)
	KEK NDB	PRV NDB	353.0	133°	56.6	Track 133° OB from KEK NDB until PRV NDB Rec'd.
	PRV NDB	AML NDB	367.0	156°	73.7	Track 156° OB from PRV NDB until AML NDB Rec'd.

AML NDB	KOR NDB	392.0	080°	75.7	Track 080° OB from AML NDB until KOR NDB Rec'd.
KOR NDB	MGR NDB	405.0	077°	21.6	Begin 450 fpm descent at KOR NDB.
MGR NDB	LGAT	Rwy 15R	108°	17.2	Land Rwy 15R, Athens Apt. Field Elev, 66 ft
Leg Dist =				356.7 NM	

7 Athens, Greece to Rodos (Rhodes), Greece; LGAT to LGRP LM-07.fsn flight plan

From	To	Freq.	Hdg	NM	Remarks
LGAT	HK NDB	275.0	153°	5.7	Dep Rwy 15L, climb to 7000 ft.
HK NDB	SUN NDB	319.0	123°	15.7	
SUN NDB	SYR NDB	417.0	106°	45.4	Track 106° OB from SUN NDB until SYR NDB Rec'd.
SYR NDB	MKO NDB	401.0	085°	19.0	
MKO NDB	LRO NDB	419.0	099°	71.1	Track 099° OB from MKO NDB until LRO NDB Rec'd.
LRO NDB	KOS NDB	311.0	147°	27.1	
KOS NDB	Fix 01		112°	49.1	Tune ADF to ROS NDB, 339 KHz. Track to ROS NDB when Rec'd. Begin 350 fpm descent 40 NM from LGRP.
Fix 01	LGRP	Rwy 7	079°	4.1	Turn to Rwy 7 when airport sighted. Land Rwy 7, Diagoras Apt. Field Elev, 16 ft
Leg Dist =				237.2 NM	

8 Rodos (Rhodes), Greece to Larnaca, Cyprus; LGRP to LCLK LM-08.fsn flight plan

From	To	Freq.	Hdg	NM	Remarks
LGRP	ROS NDB	339.0	052°	2.5	Dep Rwy 7, climb to 7000 ft.
ROS NDB	KZO NDB	416.0	100°	72.4	Track 100° OB from ROS NDB until KZO NDB Rec'd.
KZO NDB	FR NDB	297.0	072°	28.7	
FR NDB	PHA NDB	328.0	126°	146.9	Watch hdg; no Nav aids until across open water, about 70 NM of Dead Reckoning between stations. Turn on ADF Morse Ident.
PHA NDB	LCA NDB	432.0	080°	53.4	Track 080° OB from PHA NDB until LCA NDB Rec'd. Begin 350 fpm descent 40 NM from LCLK.
LCA NDB	LCLK	Rwy 4	044°	4.0	Land Rwy 4, Larna Int'l Apt. Field Elev, 7 ft
Leg Dist =				307.9 NM	

9 Larnaca, Cyprus to Amman, Jordan; LCLK to OJAI LM-09.fsn flight plan

From	To	Freq.	Hdg	NM	Remarks
LCLK	ADF Fix01	432.0	170°	6.3	Tune ADF to LCA NDB, 432 KHz. Dep Rwy 22, turn left to 170° and climb to 7000 ft.
ADF Fix01	BAB NDB	312.0	118°	107.9	Intercept 118° OB bearing from from LCA NDB (ADF will point to 298°). Track 118° OB over open water until BAB NDB Rec'd. (May be 30 NM or more interval between stations -- Fly Dead Reckoning.)
BAB NDB	RPN NDB	243.0	173°	53.1	Track 173° OB from BAB NDB until RPN NDB Rec'd.
RPN NDB	JYO NDB	391.0	153°	63.4	Track 153° OB from RPN NDB until JYO NDB Rec'd. Begin 350 fpm descent 30 NM from OJAI.
JYO NDB	ADF Fix02	410.0	172°	13.8	Tune ADF to QA NDB, 410 KHz. Track to QA NDB then right turn to RW 26R until sighting Airport

ADF Fix02	OJAI	Rwy 26R	215°	5.3	Land Rwy 26R, Queen Alia Int'l. Field Elev, 2392 ft
			Leg Dist =	249.8 NM	
			°		
			°		

10 Amman, Jordan to Al Jouf, Saudi Arabia; OJAI to OESK LM-10.fsn flight plan

From	To	Freq.	Hdg	NM	Remarks
OJAI	QA NDB	410.0	078°	5.8	Dep Rwy 8R, climb to 7000 ft.
QA NDB	GRY NDB	388.0	105°	62.7	Track 105° OB from QA NDB until GRY NDB Rec'd.
GRY NDB	AJF NDB	355.0	120°	174.8	Watch hdg; no Nav aids across Desert, about 100 NM of Dead Reckoning between stations. Turn on ADF Morse Ident. Begin 350 fpm descent 30 NM from OESK.
AJF NDB	OESK	Rwy 10		0.3	Land Rwy 10, Al Jouf Apt, Field Elev, 2260 ft.
			Leg Dist =	243.6 NM	
			°		
			°		

11 Al Jouf, Saudi Arabia to Rafha, Saudi Arabia; OESK to OERF LM-11.fsn flight plan

From	To	Freq.	Hdg	NM	Remarks
OESK	ADF Fix01	355.0	080°	4.9	Dep Rwy 10, turn left to 080° and intercept 090° OB bearing from AJF NDB, 355 KHz (ADF points to 270°). Climb to 7000 ft.
ADF Fix01	RAF VOR	116.8	090°	168.4	Track 090° OB from AJF NDB. Tune Nav Rcvr to RAF VOR, 116.8 MHz. Watch hdg; no Nav aids across Desert, about 90 NM of Dead Reckoning between stations. Turn on Nav Morse Ident. Begin 350 fpm descent 35 NM from OERF.
ADF Fix02	OERF	Rwy 11	085°	4.0	Land Rwy 11, Rafha Apt, Field Elev, 1473 ft.
			Leg Dist =	177.3 NM	

12 Rafha, Saudi Arabia to Kuwait, Kuwait; OERF to OKBK LM-12.fsn flight plan

From	To	Freq.	Hdg	NM	Remarks
OERF	VOR Fix	116.8	110°	1.3	Dep Rwy 11, intercept 091° OB radial from RAF VOR, 116.8 MHz. Climb to 7000 ft.
VOR Fix	NR NDB	368.0	091°	232.2	Track 091° OB Radial from RAF VOR, 116.8 MHz. Tune ADF to NR NDB, 368 KHz. Watch hdg; no Nav aids across Desert, about 150 NM of Dead Reckoning between stations. Turn on ADF Morse Ident. Begin 350 fpm descent 40 NM from OKBK.
NR NDB	OKBK	Rwy 15R	151°	4.0	Land Rwy 15R, Kuwait Int'l Apt, Field Elev, 203 ft.
			Leg Dist =	237.5 NM	

13 Kuwait, Kuwait to Dhahran, Saudi Arabia; OKBK to OEDR LM-13.fsn flight plan

From	To	Freq.	Hdg	NM	Remarks
OKBK	Coastline		140°	14.4	Dep Rwy 15L, turn left to 140° to coastline. Climb to 7000 ft.
Coastline	RAS NDB	318.0	154°	63.6	Coastline south to RAS NDB at Ras Al Mishab Apt.
RAS NDB	OETN Apt		145°	15.4	Coastline south to Ras Tanajib Apt.
OETN Apt	OERT Apt		133°	96.1	Coastline south to Ras Tanura Apt.
OERT Apt	DHA VOR	117.2	166°	27.8	DHA VOR at OEDR. Begin 500 fpm descent at OERT.

Land OEDR Rwy 16R Land Rwy 16R, Dhahran Int'l Apt, Field Elev, 82 ft.
 Leg Dist = 217.3 NM

14 Dhahran, Saudi Arabia to Abu Dhabi, Saudi Arabia; OEDR to OMAA

LM-14.fsn flight plan

From	To	Freq.	Hdg	NM	Remarks
OEDR	OBBS Apt	117.6	130°	32.2	Tune Nav to SIA VOR, 117.6 MHz, Dep Rwy 16L, Climb to 7000 ft track 130° to Shaikh Isa AB, Bahrain.
OBBS Apt	BD NDB	377.0	124°	63.9	Track 124° OB from SIA VOR until BD NDB Rec'd.
BD NDB	ZKU NDB	275.0	106°	87.2	Track 106° OB from BD NDB until ZKU NDB Rec'd.
ZKU NDB	2BD NDB	373.0	092°	28.4	
2BD NDB	AN NDB	412.0	111°	60.5	Track 111° OB from 2BD NDB until AN NDB Rec'd. Begin 350 fpm descent 40 NM from OMAA.
AN NDB	OMAA	Rwy 13	126°	0.6	Land Rwy 13, Abu Dhabi Int'l Apt., Field Elev, 85 ft.
Leg Dist =				272.8 NM	

15 Abu Dhabi, Saudi Arabia to Muscat, Oman; OMAA to OOMS

LM-15.fsn flight plan

From	To	Freq.	Hdg	NM	Remarks
OMAA	ADF Fix01	412.0	090°	8.2	Tune ADF to AN NDB, 412 KHz. Dep Rwy 13, turn left to 090° and intercept 101° OB bearing from AN NDB. climb to 7000 ft.
ADF Fix01	AIN NDB	399.0	101°	46.4	Track 101° OB from AN NDB until AIN NDB Rec'd.
AIN NDB	NSB NDB	318.0	104°	150.6	Track 104° OB from AIN NDB, then maintain hdg over desert, 75 NM Dead Reckoning, until NSB NDB Rec'd. Turn on ADF Morse Ident. Begin 350 fpm descent 40 NM from OOMS.
NSB NDB	OOMS	Rwy 8	084°	0.7	Land Rwy 8, Seeb Int'l Apt., Field Elev, 46 ft.
Leg Dist =				205.9 NM	

16 Muscat, Oman to Jiwani, Pakistan; OOMS to OPJI

LM-16.fsn flight plan

From	To	Freq.	Hdg	NM	Remarks
OOMS	Land Point	NSB NDB, 318 KHz, then DR	048°	156.6	Dep Rwy 8, turn left to 048° and climb to 7000 ft. Track 048° OB from NSB NDB, then maintain hdg over open water, 80 NM Dead Reckoning, until land fall. Carefully maintain hdg across open water, making landfall at point of land. One deg hdg error misses land point by 2.7 NM.
Land Point	Coastline	DR	101° Avg	55.2	At land fall, turn east and follow coastline for 55 NM.
Coastline	JI NDB	330.0	088°	20.7	At land point, 088° to JI NDB, cross water to airport. Begin 350 fpm descent 40 NM from OPJI.
	OPJI	Rwy 3		0.5	Land Rwy 3, Jiwani Apt., Field Elev, 184 ft.
Leg Dist =				233.0 NM	

17 Jiwani, Pakistan to Karachi, Pakistan; OPJI to OPKC

LM-17.fsn flight plan

From	To	Freq.	Hdg	NM	Remarks
OPJI	GD NDB	303.0	073°	29.8	Dep Rwy 3, Climb to 7000 ft.

GD NDB	PI NDB	400.0	085°	55.4	Follow coastline East until PI NDB Rec'd.
PI NDB	OR NDB	380.0	East	68.4	Follow coastline East until OR NDB Rec'd.
OR NDB	Pirate's Cove		East & South	136.2	Tune ADF to KC NDB, 271 KHz. Follow coastline east and south until ADF points to 100° at Pirate's Cove.
Pirate's Cove	OPMR	DR	114°	14.5	Begin 500 fpm descent at Pirate's Cove -- Overfly Masroor AB
OPMR	OPKC	DR	090°	11.2	Land Rwy 7R, Quaid-E-Azam Int'l., Field Elev, 98 ft.
Leg Dist =				315.5 NM	

18 Karachi, Pakistan to Jodhpur, India; OPKC to VIJO

LM-18.fsn flight plan

From	To	Freq.	Hdg	NM	Remarks
OPKC	KC NDB	271.0	033°	1.3	Dep Rwy 7L, climb to 7000 ft.
KC NDB	KD NDB	223.0	071°	70.3	Track 071° OB from KC NDB until KD NDB Rec'd.
KD NDB	KE NDB	410.0	079°	76.3	Track 079° OB from KD NDB until KE NDB Rec'd.
KE NDB	JO NDB	340.0	076°	181.5	Track 076° OB from KE NDB, then maintain hdg over desert, 105 NM Dead Reckoning, until JO NDB Rec'd. Turn on ADF Morse Ident.
JO NDB	VIJO	Rwy 5	032°	0.2	Begin 350 fpm descent 40 NM from VIJO.
Leg Dist =				329.6 NM	Land Rwy 5, Jodhpur AB, Field Elev, 715 ft.

19 Jodhpur, India to Delhi, India; VIJO to VIDP

LM-19.fsn flight plan

From	To	Freq.	Hdg	NM	Remarks
VIJO	ADF Fix01	340.0	081°	1.8	Tune ADF to JO NDB, 340 KHz. Dep Rwy 5, turn right to 081° intercept 063° OB bearing from JO NDB. Climb to 7000 ft.
Fix 01	TRR NDB	266.0	063°	149.4	Track 063° OB from JO NDB, then maintain hdg over desert, 75 NM Dead Reckoning, until TRR NDB Rec'd. Turn on ADF Morse Ident.
TRR NDB	NUH NDB	325.0	059°	88.1	Track 059° OB from TRR NDB until NUH NDB Rec'd.
NUH NDB	PL NDB	303.0	021°	28.5	AT NUH NDB begin 450 fpm descent.
PL NDB	VIDP	Rwy 28	284°	4.1	Land Rwy 28, Indira Gandhi Int'l., Field Elev, 741 ft.
Leg Dist =				271.9 NM	

20 Delhi, India to Gwalior, India; VIDP to VIGR

LM-20.fsn flight plan

From	To	Freq.	Hdg	NM	Remarks
VIDP	NUH NDB	325.0	191°	29.2	Dep Rwy 10, climb to 6000 ft.
NUH NDB	AG NDB	249.5	138°	76.6	Track 138° OB from NUH NDB until AG NDB Rec'd. Climb to 7000 ft.
AG NDB	GJ NDB	390.0	165°	53.9	Track 165° OB from TRR NDB until NUH NDB Rec'd. Begin 350 fpm descent 40 NM from VIGR.
	VIGR	Rwy 24			Land Rwy 24, Maharajour AB, Field Elev, 616 ft.
Leg Dist =				159.7 NM	

21 Gwalior, India to Allahabad, India; VIGR to VIAL

LM-21.fsn flight plan

From	To	Freq.	Hdg	NM	Remarks
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VIGR	ADF Fix01	390.0	100°	3.7	Tune ADF to GJ NDB, 390 KHz. Dep Rwy 6, turn right to 100° intercept 086° OB bearing from GJ NDB. Climb to 7000 ft.
ADF Fix01	KA NDB	292.0	086°	114.0	Track 086° OB from GJ NDB, then maintain hdg over desert, 40 NM Dead Reckoning, until KA NDB Rec'd. Turn on ADF Morse Ident.
KA NDB	FR NDB	334.0	103°	51.7	Track 103° OB from KA NDB until FR NDB Rec'd.
FR NDB	AP NDB	328.0	157°	49.2	Track 157° OB from FR NDB until AP NDB Rec'd. Begin 350 fpm descent 40 NM from VIAL.
AP NDB	VIAL	Rwy 12	132°	2.0	Land Rwy 12, Allahabad Apt., Field Elev, 322 ft.
Leg Dist =				220.6 NM	

22 Allahabad, India to Ranchi, India; VIAL to VERC

LM-22.fsn flight plan

From	To	Freq.	Hdg	NM	Remarks
VIAL	ADF Fix01	328.0	070°	4.7	Tune ADF to AP NDB, 328 KHz. Dep Rwy 7, straight out to intercept 091° OB bearing from AP NDB. Climb to 7000 ft.
ADF Fix01	BN NDB	222.0	091°	56.3	Track 091° OB from AP NDB until BN NDB Rec'd.
BN NDB	RC NDB	285.0	134°	186.0	Track 134° OB from BN NDB, then maintain hdg over desert, 110 NM Dead Reckoning, until RC NDB Rec'd. Turn on ADF Morse Ident.
	VERC	Rwy 13			Begin 350 fpm descent 30 NM from VERC.
Leg Dist =				247.0 NM	Land Rwy 13, Ranchi Apt., Field Elev, 2119 ft.

23 Ranchi, India to Calcutta, India; VERC to VECC

LM-23.fsn flight plan

From	To	Freq.	Hdg	NM	Remarks
VERC	RC NDB	285.0	122°	0.6	Dep Rwy 13, climb to 7000 ft.
RC NDB	JS NDB	400.0	123°	55.6	Track 123° OB from RC NDB until JS NDB Rec'd.
JS NDB	TK NDB	390.0	088°	102.1	Track 088° OB from JS NDB, then maintain hdg over desert, 25 NM Dead Reckoning, until TK NDB Rec'd. Turn on ADF Morse Ident.
TK NDB	DU NDB	385.0	112°	26.4	Begin 500 fpm descent at TK NDB
DU NDB	UM NDB	404.0	187°	3.8	
UM NDB	VECC	Rwy 19L	187°	0.2	Land Rwy 19L, Chandra Bose Int'l., Field Elev, 16 ft.
Leg Dist =				188.7 NM	

24 Calcutta, India to Cox's Bazar, Bangladesh; VECC to VGCB

LM-24.fsn flight plan

From	To	Freq.	Hdg	NM	Remarks
VECC	BC NDB	220.0	079°	15.0	Dep Rwy 1L, climb to 7000 ft.
BC NDB	BL NDB	368.0	087°	88.8	Track 087° OB from BC NDB, then maintain hdg over desert, 15 NM Dead Reckoning, until BL NDB Rec'd. Turn on ADF Morse Ident.
BL NDB	EG NDB	287.0	112°	90.4	Track 112° OB from BL NDB, then maintain hdg over desert, 15 NM Dead Reckoning, until EG NDB Rec'd. Turn on ADF Morse Ident.
EG NDB	CB NDB	396.0	171°	49.2	Track 171° OB from EG NDB until CB NDB Rec'd. Follow coastline south. Begin 350 fpm descent 40 NM from VGCB.
	VGCB	Rwy 17	170°		Land Rwy 17, Cox's Bazar Apt., Field Elev, 10 ft.
Leg Dist =				243.4 NM	

25	Cox's Bazar, Bangladesh to Thandwe, Myanmar; VGCB to VYTD					LM-25.fsn flight plan
	From	To	Freq.	Hdg	NM	Remarks
	VGCB	ADF Fix01	396.0	140°	4.5	Tune ADF to CB NDB, 396 KHz. Dep Rwy 17, left turn to 140° to intercept 148° OB bearing from CB NDB. Climb to 7000 ft.
	ADF Fix01	SW NDB	216.0	148°	89.8	Track 148° OB from CB NDB, then maintain hdg over desert, 15 NM Dead Reckoning, until SW NDB Rec'd. Turn on ADF Morse Ident. Follow coastline.
	SW NDB	KP NDB	250.0	140°	55.5	Track 140° OB from SW NDB until KP NDB Rec'd. Follow coastline.
	KP NDB	TD NDB	270.0	144°	73.2	Track 144° OB from KP NDB until TD NDB Rec'd. Follow coastline. Begin 350 fpm descent 40 NM from VYTD.
		VYTD	Rwy 20			Land Rwy 20, Mazin Apt., Field Elev, 19 ft.
				Leg Dist =	223.0 NM	
26	Thandwe, Myanmar to Yangoon, Myanmar; VYTD to VYYY					LM-26.fsn flight plan
	From	To	Freq.	Hdg	NM	Remarks
	VYTD	TD NDB	270.0			Dep Rwy 20, turn left, intercept 165° OB from TD NDB, climb to 7000 ft.
	TD NDB	PTN NDB	415.0	165°	103.5	Track 165° OB from TD NDB, then maintain hdg over desert, 90 NM Dead Reckoning, until PTN NDB Rec'd. Turn on ADF Morse Ident. Follow coastline until PTN comes into range.
	PTN NDB	MDS NDB	397.0	087°	76.5	Track 087° OB from PTN NDB until MDS NDB Rec'd. Begin 350 fpm descent 40 NM from VYYY.
	MDS NDB	VYYY	Rwy 3	026°	1.5	Land Rwy 3, Yangoon Int'l Apt., Field Elev, 108 ft.
				Leg Dist =	181.5 NM	
27	Yangoon, Myanmar to Tak, Thailand; VYYY to VTPM					LM-27.fsn flight plan
	From	To	Freq.	Hdg	NM	Remarks
	VYYY	MDN NDB	204.0	061°	2.7	Dep Rwy 3, climb to 7000 ft.
	MDN NDB	PA NDB	365.0	092°	86.6	Track 092° OB from MDN NDB, then maintain hdg, with 10 NM Dead Reckoning, until PA NDB Rec'd. Turn on ADF Morse Ident.
	PA NDB	MS NDB	316.0	103°	51.3	Track 103° OB from PA NDB until MS NDB Rec'd. Begin 350 fpm descent 40 NM from VTPM.
		VTPM	Rwy 9			Land Rwy 9, Mae Sot Aero., Field Elev, 643 ft.
				Leg Dist =	140.6 NM	
28	Tak, Thailand to Bangkok, Thailand; VTPM to VTBD					LM-28.fsn flight plan
	From	To	Freq.	Hdg	NM	Remarks
	VTPM	DEPART	316.0	131°		Tune ADF to MS NDB, 316 KHz. Dep Rwy 9, turn right, intercept 131° OB from MS NDB, climb to 7000 ft.
	Rwy 9	TL NDB	350.0	131°	133.1	Track 131° OB from MS NDB, then maintain hdg, with 60 NM Dead Reckoning, until TL NDB Rec'd. Turn on ADF Morse Ident.

TL NDB	LB NDB	280.0	138°	31.4	
LB NDB	KK NDB	276.0	183°	57.0	Track 183° OB from LB NDB until KK NDB Rec'd. Begin 350 fpm descent 40 NM from VTBD.
KK NDB	VTBD	Rwy 21R	209°	0.6	Land Rwy 21R, Bangkok Int'l Apt., Field Elev, 7 ft.
			Leg Dist =	222.1 NM	

29 Bangkok, Thailand to Prachuap, Thailand; VTBD to VTBP LM-29.fsn flight plan

From	To	Freq.	Hdg	NM	Remarks
VTBD	DEPART	276.0	210°		Tune ADF to KK NDB, 276 KHz. Dep Rwy 21R straight out, climb to 6000 ft.
Rwy 21R	Land Point	276.0	210°	61.4	Track 210° OB from KK, with 25 NM Dead Reckoning, cross Bay to Land Point.
Land Point	HN NDB	213.0	200°	26.4	Follow coastline south to HN NDB at Hua Hin Apt.
HN NDB	PCK NDB	320.0	190°	51.0	Track 190° OB from HN NDB until PCK NDB Rec'd. Begin 350 fpm descent 35 NM from VTBP.
PCK NDB	VTBP	Rwy 18		0.2	Land Rwy 18, Prachuap Khiri Apt., Field Elev, 10 ft.
			Leg Dist =	139.0 NM	

30 Prachuap, Thailand to Nakhon Si Th. Thailand; VTBP to VTSN LM-30.fsn flight plan

From	To	Freq.	Hdg	NM	Remarks
VTBP	DEPART	320.0	204°		Tune ADF to PCK NDB, 320 KHz. Dep Rwy 18, turn right, intercept 204° OB from PCK NDB, climb to 6000 ft.
PCK NDB	SR NDB	338.0	204°	168.8	Track 204° OB from PCK NDB, then follow coastline south, with 90 NM Dead Reckoning, until SR NDB Rec'd. Turn on ADF Morse Ident.
SR NDB	NS NDB	345.0	130°	62.9	Climb to 7000 ft. Track 130° OB from SR NDB until NS NDB Rec'd. Begin 350 fpm descent 40 NM from VTSN.
	VTSN	Rwy 18			Land Rwy 18, Nakhon Si Th. Apt., Field Elev, 43 ft.
			Leg Dist =	231.7 NM	

31 Nakhon Si, Thailand to Kuala Terreng., Malaysia; VTSN to WMKN LM-31.fsn flight plan

From	To	Freq.	Hdg	NM	Remarks
VTSN	NS NDB	345.0	154°	0.6	Dep Rwy 18, turn left to intercept 154° OB from NS NDB, climb to 7000 ft.
NS NDB	SK NDB	410.0	154°	85.8	Follow coastline south, track 154° OB from NS NDB until SK NDB Rec'd.
SK NDB	PT NDB	201.0	127°	39.9	Follow coastline south
PT NDB	NT NDB	383.0	114°	40.3	Follow coastline south
NT NDB	KB NDB	240.0	126°	35.6	Follow coastline south
KB NDB	TU NDB	312.0	133°	70.0	Follow coastline south, track 133° OB from KB NDB until TU NDB Rec'd. Begin 350 fpm descent 40 NM from WMKN.
	WMKN	Rwy 22			Land Rwy 22, Sultan Mahmud Apt., Field Elev, 20 ft.
			Leg Dist =	272.2 NM	

32	Kuala Terreng., Malaysia to Singapore; WMKN to WSSL					LM-32.fsn flight plan
	From	To	Freq.	Hdg	NM	Remarks
	WMKN	WMKE Apt	312.0	160°	54.5	Tune ADF to TU NDB, 312 KHz; Dep Rwy 22, turn left to intercept 160° OB from TU NDB. Climb to 7000 ft. Follow coastline south, overfly Kerteh Apt.
	WMKE Apt	KN NDB	349.0	196°	47.4	Descend to 6000 ft, 20 NM Dead Reckoning until KN NDB Rec'd. Turn on ADF Morse Ident.
	KN NDB	PK NDB	282.0	152°	26.7	Climb to 7000 ft.
	PK NDB	KK NDB	286.0		130.3	Follow coastline south until KK NDB Rec'd. Turn on ADF Morse Ident.
	KK NDB	SEL NDB	220.0	230°	9.8	Begin 350 fpm descent 40 NM from WSSS.
		WSSL	Rwy 21			Land Rwy 21, Seletar Apt. Field Elev, 33 ft.
				Leg Dist =	268.7 NM	
33	Singapore to Palembang, Indonesia; WSSL to WIPP					LM-33.fsn flight plan
	From	To	Freq.	Hdg	NM	Remarks
	WSSL	BM NDB	370.0	140°	22.8	Dep Rwy 21, climb to 7000 ft.
	BM NDB	TI NDB	385.0	116°	27.7	
	TI NDB	NX NDB	365.0	199°	162.0	Climb to 8000 ft. track 199° OB from TI NDB, then 90 NM Dead Reckoning over open water until NX NDB Rec'd. Turn on ADF Morse Ident.
	NX NDB	OW NDB	395.0	141°	100.0	Descend to 7000 ft. track 141° OB from NX NDB, then 25 NM Dead Reckoning until OW NDB Rec'd. Turn on ADF Morse Ident. Begin 350 fpm descent 40 NM from WIPP.
	OW NDB	WIPP	Rwy 11			Land Rwy 11, Badaruddin Li Apt., Field Elev, 36 ft.
				Leg Dist =	312.5 NM	
34	Palembang, Indonesia to Jakarta, Indonesia; WIPP to WIII					LM-34.fsn flight plan
	From	To	Freq.	Hdg	NM	Remarks
	WIPP	Coastline		126°	93.3	Dep Rwy 11, climb to 7000 ft.
	Coastline	Isthmus		184° avg	118.5	At Coastline, turn south and follow it until Isthmus between Islands. Climb to 8000 ft. Tune ADF to GL NDB, 324 KHz. Turn on Morse Ident.
	Isthmus	ADF Fix-01		109° avg	30.3	Turn east, cross Isthmus, and descend to 7000 ft. Then follow north shore eastward until 125° bearing to GL NDB Received.
	ADF Fix-01	GL NDB	324.0	125°	21.3	Begin 500 fpm descent at 125° bearing to GL NDB.
	GL NDB	WIII	Rwy 7L	068°	4.1	Land Rwy 7L, Hatta Int'l. Field Elev, 33 ft.
				Leg Dist =	267.5 NM	
35	Jakarta, Indonesia to Solo, Indonesia; WIII to WRSQ					LM-35.fsn flight plan
	From	To	Freq.	Hdg	NM	Remarks
	WIII	TG NDB	275.0	090°	12.0	Dep Rwy 7R, climb to 7000 ft.

TG NDB	AL NDB	215.0	108°	12.4	
AL NDB	PW NDB	250.0	133°	33.2	
PW NDB	OZ NDB	385.0	086°	13.9	
OZ NDB	CA NDB	365.0	099°	53.0	Track 099° OB from OZ NDB until CA NDB Rec'd.
CA NDB	OC NDB	350.0	099°	109.4	Follow coastline eastward until Achmad Yani Apt, with OC NDB on field
OC NDB	SO NDB	255.0	145°	38.9	Track 145° OB from OC NDB until SO NDB Rec'd. Begin 400 fpm descent at OC NDB.
	WRSQ	Rwy 8			Land Rwy 8, Adi Sumarmo W. Apt. Field Elev, 410 ft.
Leg Dist =				272.8 NM	

36	Solo, Indonesia to Den Passar, Indonesia; WRSQ to WRRR				LM-36.fsn flight plan
	From	To	Freq.	Hdg	NM
	WRSQ	Coastline		130°	74.9
	Coastline	Land's End		099° avg	177.2
	Land's End	OR NDB	230.0	085°	36.4
		WRRR	Rwy 9		
Leg Dist =				288.5 NM	
					Remarks
					Dep Rwy 8, climb to 7000 ft.
					Turn east at coastline and follow south coastline to tip of island - Land's End.
					Begin 450 fpm descent at Land's End, cross open water to Bali Int'l
					Land Rwy 9, Bali Int'l Apt. Field Elev, 13 ft.

37	Den Passar, Indonesia to Wangapu, Indonesia; WRRR to WRRW				LM-37.fsn flight plan
	From	To	Freq.	Hdg	NM
	WRRR	Small Island		090°	20.2
	Island	Tip of Island		120° avg	6.3
	Tip of Island	Large Island		097°	20.6
	Large Island	Coastline		101°	28.6
	Coastline	Large Island		098°	21.2
	Large Island	Tip of Island		084° avg	132.6
	Tip of Island	Arpt. Island		145°	37.2
	Coastline	ADF Fix 01		095° avg	61.9
	ADF Fix 01	NR NDB	295.0	150°	13.0
		WRRW	Rwy 15		
Leg Dist =				341.6 NM	
					Remarks
					Dep Rwy 9, climb to 7000 ft. Cross open water.
					Fly along southern coast of Island
					Cross open water.
					Follow southern coastline
					Cross open water.
					Follow southern coastline
					Cross open water. Tune ADF to 295 KHz, NR NDB.
					Follow northern coastline until 150° brg to NR NDB. Begin 350 fpm descent 40 NM from WRRW.
					Land Rwy 15, Mau Hau Apt. Field Elev, 33 ft.

38	Wangapu, Indonesia to Kupang, Indonesia; WRRW to WRKK				LM-38.fsn flight plan
	From	To	Freq.	Hdg	NM
	WRRW	Coastline		098°	16.0
	Coastline	Tip of Island		141° avg	28.1
	Tip of Island	Sm Island		110°	63.7
	Coastline	Tip of Island		079° avg	10.2
	Tip of Island	Med. Island		100°	65.8
					Remarks
					Dep Rwy 15, climb to 7000 ft.
					Fly south-east along coastline to tip of Island.
					Cross open water.
					Fly east along northern coastline to tip of Island.
					Cross open water. Tune ADF to OK NDB, 385 KHz.

Coastline	ADF Fix -01	385.0	049° avg	22.2	Begin 300 fpm descent at landfall. Fly north-east along northern coastline of Island until ADF points to 045° bearing to OK NDB. Land Rwy 7, El Tan Apt. Field Elev, 334 ft.
ADF Fix -01	OK NDB	385.0	045°	23.2	
			Leg Dist =	229.2 NM	

39 Kupang, Indonesia to Darwin, Australia; WRKK to YPDN

LM-39.fsn flight plan

From	To	Freq.	Hdg	NM	Remarks
WRKK	DEPART	385.0	105°		Tune ADF to OK NDB, 385 KHz; Dep Rwy 7, turn right to intercept 105° OB from OK NDB. Climb to 7000 ft.
OK NDB	Coastline		105°	20.5	Track 105° OB from OK NDB until signal fades, then about 365 NM Dead Reckoning before BGT NDB in Australia Rec'd.
Coastline	Coastline		105°	422.6	422 NM Open Water to Cross to reach Australia. Tune ADF to BGT NDB, 308 KHz. Turn on Morse Ident.
Coastline	BGT NDB	308.0	105°	1.2	Begin 350 fpm descent 40 NM from YPDN.
BGT NDB	YPDN		105°	0.5	Land Rwy 11, Darwin Int'l Apt. Field Elev, 101 ft.
			Leg Dist =	444.8 NM	

40 Darwin, Australia to Ngukurr, Australia; YPDN to YNGU

LM-40.fsn flight plan

From	To	Freq.	Hdg	NM	Remarks
YPDN	HWS NDB	257.0	105°	11.0	Dep Rwy 11, climb to 7000 ft.
HWS NDB	NGU NDB	233.0	118°	254.5	Track 118° OB from HWS NDB until signal fades, then about 180 NM Dead Reckoning before NGU NDB Rec'd. Begin 350 fpm descent 40 NM before YNGU.
	YNGU		Rwy 11		Land Rwy 11, Ngukurr Apt. Field Elev, 43 ft.
			Leg Dist =	265.5 NM	

41 Ngukurr, Australia to Mornington Is., Australia; YNGU to YMTI

LM-41.fsn flight plan

From	To	Freq.	Hdg	NM	Remarks
YNGU	Coastline	233.0	105°	46.9	Tune ADF to NGU NDB, 233 KHz; Dep Rwy 11, maintain Rwy hdg and intercept 105° OB from NGU NDB. Climb to 7000 ft.
Coastline	ADF Fix-01	416.0	116° avg	212.8	Tune ADF to MTI NDB, 416 KHz. Follow coastline South East and East until ADF points to 071° brg to MTI ADF.
ADF Fix-01	MTI NDB	416.0	071°	30.7	Begin 500 fpm descent at ADF Fix-01.
	YMTI		Rwy 9		Land Rwy 9, Mornington Island Apt. Field Elev, 13 ft.
			Leg Dist =	290.4 NM	

42 Mornington Is., Australia to Cloncurry, Australia; YMTI to YCCY

LM-42.fsn flight plan

From	To	Freq.	Hdg	NM	Remarks
YMTI	BKT NDB	236.0	156°	69.1	Tune ADF to MTI NDB, 416 KHz; Dep Rwy 9, turn left and intercept 156° OB from MTI NDB. Climb to 7000 ft. Track 156° OB from MTI NDB until BKT NDB Rec'd.

BKT NDB	CCY NDB	264.0	156°	183.3	Track 156° OB from BKT NDB until signal fades, then about 180 NM Dead Reckoning before CCY NDB Rec'd. Begin 350 fpm descent 40 NM before YCCY. Land Rwy 12, Cloncurry Apt. Field Elev, 620 ft.
	YCCY	Rwy 12			
			Leg Dist =	252.4 NM	

43 Cloncurry, Australia to Longreach, Australia; YCCY to YLRE

From	To	Freq.	Hdg	NM	LM-43.fsn flight plan Remarks
YCCY	DEPART	264.0	118°		Tune ADF to CCY NDB, 264 KHz; Dep Rwy 12, maintain Rwy hdg and intercept 118° OB from CCY NDB. Climb to 7000 ft.
CCY NDB	WTN NDB	386.0	118°	176.6	Track 118° OB from CCY NDB until signal fades, then about 100 NM Dead Reckoning before WTN NDB Rec'd.
WTN NDB	LRE NDB	353.0	126°	92.2	Track 126° OB from WTN NDB until signal fades, then about 20 NM Dead Reckoning before LRE NDB Rec'd. Begin 350 fpm descent 40 NM before YLRE.
	YLRE	Rwy 22			Land Rwy 22, Longreach Apt. Field Elev, 627 ft.
			Leg Dist =	268.8 NM	

44 Longreach, Australia to Charleville, Australia; YLRE to YBCV

From	To	Freq.	Hdg	NM	LM-44.fsn flight plan Remarks
YLRE	DEPART	353.0	126°		Tune ADF to LRE NDB, 353 KHz; Dep Rwy 4, turn right to 210° and intercept 126° OB from LRE NDB. Climb to 7000 ft.
LRE NDB	BCK NDB	416.0	126°	86.8	Track 126° OB from LRE NDB until signal fades, then about 10 NM Dead Reckoning before BCK NDB Rec'd.
BCK NDB	CV NDB	269.0	151°	127.5	Track 151° OB from BCK NDB until signal fades, then about 50 NM Dead Reckoning before CV NDB Rec'd. Begin 350 fpm descent 40 NM before YBCV.
	YBCV	Rwy 12			Land Rwy 12, Charleville Apt. Field Elev, 1001 ft.
			Leg Dist =	214.3 NM	

45 Charleville, Australia to Nyngan, Australia; YBCV to YNYN

From	To	Freq.	Hdg	NM	LM-45.fsn flight plan Remarks
YBCV	DEPART	269.0	162°		Tune ADF to CV NDB, 269 KHz; Dep Rwy 12, turn right to 195° and intercept 162° OB from CV NDB. Climb to 7000 ft.
CV NDB	BRW NDB	281.0	162°	215.4	Track 162° OB from CV NDB until signal fades, then about 140 NM Dead Reckoning before BRW NDB Rec'd.
BRW NDB	NYN NDB	404.0	158°	96.7	Track 158° OB from BRW NDB until signal fades, then about 20 NM Dead Reckoning before NYN NDB Rec'd. Begin 350 fpm descent 40 NM before YNYN.
	YNYN	Rwy 19			Land Rwy 19, Nyngan Apt. Field Elev, 568 ft.
			Leg Dist =	312.1 NM	

46	Nyngan, Australia to Albury, Australia; YNYN to YMAY					LM-46.fsn flight plan
	From	To	Freq.	Hdg	NM	Remarks
	YNYN	DEPART	404.0	169°		Tune ADF to NYN NDB, 404 KHz; Dep Rwy 19, maintain Rwy hdg and intercept 169° OB from NYN NDB. Climb to 7000 ft.
	NYN NDB	CDO NDB	401.0	169°	91.1	Track 169° OB from NYN NDB until signal fades, then about 15 NM Dead Reckoning before CDO NDB Rec'd.
	CDO NDB	WWL NDB	389.0	170°	51.9	Track 170° OB from CDO NDB until WWL NDB Rec'd.
	WWL NDB	TEM NDB	209.0	140°	33.6	
	TEM NDB	WG NDB	221.0	173°	44.4	Track 173° OB from TEM NDB until WG NDB Rec'd.
	WG NDB	AY NDB	236.0	192°	59.2	Descend to 6000 ft. Track 192° OB from WG NDB until AY NDB Rec'd. Begin 350 fpm descent 40 NM before YMAY.
		YMAY	Rwy 25			Land Rwy 25, Albury Apt. Field Elev, 538 ft.
				Leg Dist =	280.2 NM	
47	Albury, Australia to Melbourne, Australia; YMAY to YMML					LM-47.fsn flight plan
	From	To	Freq.	Hdg	NM	Remarks
	YMAY	DEPART	236.0	260°		Tune ADF to AY NDB, 236 KHz; Dep Rwy 25, turn right and intercept 260° OB from AY NDB. Climb to 6000 ft.
	AY NDB	COR NDB	380.0	268°	30.1	
	COR NDB	SHT NDB	212.0	229°	53.5	Track 229° OB from COR NDB until SHT NDB Rec'd.
	SHT NDB	MNG NDB	254.0	189°	30.1	
	MNG NDB	BOL NDB	362.0	197°	38.4	Track 197° OB from MNG NDB until BOL NDB Rec'd. Begin 300 fpm descent at MNG NDB.
	BOL NDB	ROC NDB	338.0	160°	7.8	
		YMML	Rwy 16	160°	3.8	Land Rwy 16, Melbourne Int'l Apt. Field Elev, 433 ft.
				Leg Dist =	163.7 NM	

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