TIME	RQD TRACK (T)	W/V USED AND COMPUTED DRIFT	Course (T)	VARN	Course (M)	Compass Corrn. for Devn.	Course (C)	NAVIGATIONAL OBSERVATIONS (Pin Points, Fixes, Position Lines, Actual T.M.G. Actual Drift, G/S and W/V Manoeuvres, etc.)	GENERAL (Met. Conditions, Bombing, Intell., Enemy Action)	R.A.S.	HEIGHT & AIR TEMP.	T.A.S.	D.R. G/S	DIST. TO RUN	D.R. TIME	E.T.A.
									5750N 0549E	160	-4 4000	166	164	69	25½	2124½
													180	38	12½	2121½
2059	048	312/45	032	6W	038	-1	037	Level out								
2109								C/S 180								
								W/V for climb 307/30								
								☐ A S/C B climbing	5842N 0641E	160	-8 6000	172				
2123	094	301/30	088	6W	094	-1	095	A/C to regain track		155	-8 6000	166	192	118	37	2200
2133	091		085					CC								
									5847N 0753E							
								AP	5849N 0823E							
2138								level out								
2144								crossing Coast								
2150								approx Poon 5130N 0950E								
2155								Shoreham RAF								
2157										185	-15 10000	211				
									AP 5857N 0954E		-25					
2201	090	307/30	085	6W	091	-1	090	⊙ 5726N 10338		185	10000	211	192	65	20	2221
								API 915 39E					236	65	16½	2217½
2211	091	360/60	136	6W	140	-1	141	☐ A/C C		190	-15 10000	217	278	86	18½	2234½
									CC							
								AP	5713N 1215E							
2222								☐ TRACK A CC					278	18	4	⊙2226
2226	153	320/60 3s	156	3W	159								273	21	4½	2230½
									5655N 1245E	190	-15 10000	217	273	115	25	2255½
2230½	155	320/60	159	3W	162	0	162	☐ C S/C D	CC							
								Climb to avoid cloud								
								Caught S/L but light went out								
									5626N 1310E							
2241										190	-15 10000	217	269	42	9½	2256
2241½								☐ A/C D								
2246½	168	320/60	175	3W	178	-1	177	TI's Sighted A/C	5543N 1328E							
2256			120					△ Running up								
2306		035/30	10,000							190	-15 10000	217				
	226		228					Bombs Gone			9800					
2309																
2309½	352	035/30 7P	359	3W	002	-1	001	△ S/C C descending	5517N 1416E	220	2000	220	192	50	15½	2324½
2313		015/20						level out 10000								
2325	353	030/30 6P	359	3W	002	-1	001	Commence climb to 5000	5514N 1324E CC	165	-6 5000	174	140			
2331								Crossing Coast	5530N 1324N							
								API 8½E	SS							
2332	354	030/30 5P	359	3W	002	-1	001	Level out		190	-6 5000	200	175	66	22½	2354½
								Increase RAS		200	-6 5000	211	186	66	21	2353
									CC							
								G/S 186 mph								
0353	352	030/30 7P	339	4W	342	0	342	☐ E S/C B	5628N 1317E	190	-6 5000	200	183	82	27	0020
0356½									CC				183	82	27	0023½
0009	348	030/30 6P	354	4W	358	0	358	☐ A/C B		190	-6 5000	200	177	45	15	0024
								Reduce RAS		185	-6 5000	195	171	45	16	0025
									CC							
0025	294	030/30	282	5W	284	+1	288	☐ B S/C A		185	-6 5000	195	208	118	34	0059
0031	303	98/8P	312					A/C 305					192	23	7	0038
0038			282					☐ TRACK S/C A		185	-6 5000	195	208	75	21½	0059½
									CC							
0041	244	307/30	282					Crossing Swedish Coast		185	-6 5000	195	168			
								A/C 30P					184	44	14½	0106
0052	243	317/30	252	5W												
0106½	514	317/30	280	6W	286	+1	287	☐ TRACK S/C A		185	-6 5000	195	172	33	11½	0118
0111		6P						AP.					172	29	10	0121
0121	223	317/30 9S	232	6W	238	0	238	☐ TRACK S/C Y	5802N 0735E	195	1500	195	196	251		
								descending to 1500		205	1500	202	202			
		307/30	Turn	1600				C/S 202 mph		195	1500	195				
													187	27½	9	0220
0259	238	307/30	247	7W	254	+1	253	A/C 155								

L. Driggers

Navigator

SQUARE SEARCH HEIGHT..... T.A.S..... VIS..... m

TRACK T.	W/V USED	Course (T)	VARN	Course (M)	Corrn. for Devn.	Course (C)	D.R. G/S	DIST.	D.R. TIME	T.T.T.	DIST.	D.R. TIME	T.T.T.
								2V			6V		

MEMORANDA

LICHFIELD 5243N 0

EA B12.02 D48

ILLUMINATED 2 HOSP SHIPS IN Δ area DO NOT AIM SASSNITZ

SQUADRON 49 A/C NUMBER AND LETTER Q CAPTAIN F/O FRICKER NAVIGATOR F/S DIGGENS DATE 6/3/45

FORECAST W/Vs AND AIR TEMPS.

STAGE FROM / TO	2,000 FT From (T)	Speed	TEMP °C	5,000 FT From (T)	Speed	TEMP °C	10,000 FT From (T)	Speed	TEMP °C	15,000 FT From (T)	Speed	TEMP °C	20,000 FT From (T)	Speed	TEMP °C
BASE - 5E	335	25		340	35		350	40		360	45		360	57	
5 - 10E	340	30		340	47		340	57		340	70		345	87	
10E - 14E	330	30		335	42		340	60		340	75		345	94	
Δ	315	25		330	32		340	47		345	65		356	82	
SAME FOR RETURN EXCEPT	BETWEEN THEY WILL BACK						10 - 14E WHEN 100						*		
	0			-4			-15			-24			-34		

POSITION	SUN RISES	SUN SETS	MOON RISES	MOON SETS	TWILIGHT A.M.	TWILIGHT P.M.
EA	25	4	1	6		
NO	25	1	1	5		
NE	25	2	1	6		

FORM 441

WATCH ____ fast slow AT ____ GMT. ON __/__/__ GD. RATE ____ secs./hr. gaining losing

ORDERS WAVE 3 2306-09 H 2300
MT 9800 S/C 1825.
A/B 1753
~~BASIC~~
ETR 0330 Q +10 to +20
0216/0240

TIME	ROD TRACK (T)	W/V USED AND COMPUTED DRIFT	Course (T)	VAR N	Course (M)	Compass Corrn. for Devn.	Course (C)	FROM:—	TO:—	R.A.S.	HEIGHT & AIR TEMP.	T.A.S.	D.R. G/S	DIST. TO RUN	D.R. TIME	E.T.A. Ghost
	058	335/25 85	050	8W	058			BASE	— Y 5500N 0430E Y	180	1800	180	176	248	84½	2000½ 1958
16	094	335/45 135	081	5W	086			A → climb to 9800	— 5732N 1210E B	160	6000 -8	172	190	118	37	2201½ 2156
	153	340/60 25	151	4W	155			B	— 5630N 1310E C	175	10000 -15	200	260	82	19	2220½ 2202
	155	340/60 26	153	3W	156			C	— 5500N 1425E D	175	10000 -15	200	260	115	26½	2253 2228
	233	340/67 9P	232	3W	235			D	— A 5430N 1325E	175	10000 -15	200	245	46	12	2305 2240
	352	315/25 45 230/32 35	348 349	3W	352			A → descend to 2000	— C climb 5515N	220 190	2000 5000 -6	220 200	200 170	50 87	15 51 30	2351 2351
	332	325/42 25	330	4W	334			C	— B	190	5000 -6	200	159	82	21	0036
	274	325/42 10P	284	6W	290			B	— A	190	5000 -6	200	170	48	11½	0111
	223	340/35 9P	232	8W	240			A → descend to 1500	— Y	195	1500 0	195	210	256	72	
	227	335/25 7P	234					Y	— HOMING PT.	195	1500 0	195	201	224	67	
	043	340/30 8S	035					Y	— POSN A 5740N 0900E	195	1500 0	195	179	251	61	2130½ 2129
			034						—	180	1500 0	179	164	250	92	
									—					1912		
									—							
									—							
									—							
									—							
1819																
1820½	058	335/05	050	8W	058	0	058	BASE S/C POSN Y		180	1500	180	176	248	84½	1945
								DRC desynchronised								
1827								AP 5320N 0027W								
1830½								X DRC Synch.	5326½N 0015½W							
								API 3E 135								
1836								⊙	5324N 0013½E CC							
1851								X	5351½N 0053E							
								API 8½S 19E								
								TMG 0637 G/S 196								
1906	050	307/45	035	9W	043	0	043	A/C 15P	reduce 170	170	1000 +4	170	174	60	20½	1926½
1925	064		050					A/C 050T					186	38	12	1937
1937	058	307/45 145	044	9W	053	0	053	A/C Y	CC	160	1000 +4	159	182	22	7	1944
								☐ Y S/C A		160	1000 +4	159	160	250	94	2018
1944	043	307/40 145	029	8W	037	0	037	W/V 312	CC	155	1500 +4	156	157	250	95	2019
								A/C 60P dog legging				156	118			
1956	335	312/40 65	329	8W	337	0	337	A/C 120S regain track					186	24½	8	2012
2004	098	312/40 95	089	8W	097	0	098		CC	155	1500 +4	156	150	192	77	2129
2012	043	312/40	028	8W	086	0	036	☐ Track A/C A	CC							
								G/S 132 mph								
2027½	042	312/40	028	4W	035	0	035	Increase RAS	5640N 0443E	170	1000 +4	170	165	164½	55½	2123
2038½								G/S 163 mph					163	126	46	2124½
2048½	047	312/45	032	7W	039	0	038	☐ A/C A commence climb to 4000		170	1000 +4	170	168	98	35	2123½
									CC	160	1500 +4	159				

NAVIGATIONAL OBSERVATIONS (Pin Points, Fixes, Position Lines, Actual T.M.G. Actual Drift, G/S and W/V Manoeuvres, etc.)

GENERAL (Met. Conditions, Bombing, Intell., Enemy Action)

Watches Synchronised W/T Go.
VSE set 10W Z ON
VP Loaded
Airborne base

Signed R D Diggens Navigator.

PLOTTING SERIES
HOME
L.M.T. ahead of G.M.T.
0 hrs. 32 mins.
0 hrs. 36 mins.
0 hrs. 40 mins.
0 hrs. 44 mins.
0 hrs. 48 mins.
0 hrs. 52 mins.
0 hrs. 56 mins.
Statute Miles
100 Fathoms
6° W. (1944)
5° W. (1944)
4° W. (1944)
3° W. (1944)
A
C
0111
0030
2358
Kattegat
Laaland
Hirtshals
Rubjaerg Knude
Hirsholm
Frederikshavn
Nordre Rönner
Laeso
Hantsholm
Logstör
Aalborg
Ostre Flak L.B.
Hal's Barre
Lodbjaerg
Bovbjaerg
Viborg
Randers
Fornaes
Grenaa
Aarhus
Sletterhage
Hjelm
Ringkjobing
Lyngvig
Tuno
Samso
Revsnaes
Vejle
Middelfart
Esbjerg
Odense
Hadersibn
Reinaes
Kegnaes
Flensburg
Rote Kliff
Sylt
Kielsnor
Albuen
Tranckjaer
Hov
Sprogo
Romso
Kalundborg
Slagelse
Langelands Ore
Vejro
Nykobing
Gronsund
Moen
Hellehaven Nakke
Kioge
C. Stevns
Roskilde
Holbaek
Copenhagen
Helsingör
Halsingborg
Landskrona
Eslov
Malmo
Trelleborg
Smygehuk
Ystad
Sandhammaren
Stenshuv
Jonkoping
Boras
Goteborg
Vinga
Valo
Tistlarna
Nidingen
Subbeberg
Morups Tange
Anholt
Tylo
Hallands Vadero
Kullen
Svinbadan
Nakke Hd.
Lysegrund
Hesselo
Schultz's Grund
Sjaellands Rev
Tjörn
Pater Noster
Skagen
Skagens Rev.
Arkona
Dornbusch
Aldergrund
Moscow
TURKEY