NIGHT RAID REFORT NO. 366 COPY NO. 16

BOMBER COMMAND REPORT ON NIGHT OPER TIONS - 1/2nd JULY, 1943.

Minelaying : Leaflets.

SUMMARY.

Minelaying.

1. 12 Lancasters laid 72 mines off the Frisian Islands without incident.

Leaflets

2. 23 of a force of 25 aircraft scattered leaflets over Northern France. One aircraft orashed on landing, becoming a total loss. Engine trouble caused one aircraft to attack an alternative target and another to return early.

Meteorological Forecast

3. Home Bases:- Marham doubtful for take- ?f, otherwise bases in operational groups will be fit. For return, stratus (base 600-1,000 ft.) expected in operational groups, but there may be lower cloud locally. Diversions available in 91 and 93 groups until 0300 hours; at Pershore and Honeybourne cloud will remain at 1,000 ft. until 0430nhours.

Germany:- Small amounts of strato-cumulus in NW. and E., with larger patches in N.W. Residual thundery cloud in S.

France:- Fine except in N.W., where there will be small amounts of strato-oursulus with occasional large patches.

Frisians and route:- 10/10ths cloud at 5-8,000 ft. with patches below, base rising to 1,000 ft. near the target area, with moderate visibility.

Bortics

10.0	L				Minelaying Leaflets
4.	(a)	No.	of	airoraft	despetched 12 25
	(ъ)				reaching primary area, 12
	(0)			8	alternative area. nil 1
	(a)	n	н	abortive	sorties 1*
	(e)				missing
	(f)				ia

engine trouble.

Weather Experienced

5. Bases: layer cloud below 1,000 ft, over east coast districts early in the night spread rapidly inland. By 0600 hours, areas E. of a line Portland-Carlisle were affected, with fog patches in Lancashire.

Frisians and North Sca:- 8-10/10ths layor cloud, base 900-1,000 ft. tops about 1,000 ft. No moon.

Winds:- at 1-2,000 ft. 020 /20 m.p.h.

Northarn Franco:- 7-9/10ths cloud, tops 8,000 ft., modorate visibility, No moon.

wind at 15,000 ft. 0400/15 m.p.h.

Routo to N. Franco: - patches of layor cloud over the Channel, tops 6,000 it.

/Enomy Dofences....

Enony Defences

6. Low cloud on route and over the target area made the minolaying operation uneventful. No enemy aircraft was seen, and there was no flak.

7. Both light and heavy flak were, however, experienced over the Channel Islands and coastal areas of northern France, and also from shipping off the coast; a small concentration of searchlights operated at Le Havro. Defences in the target areas were also active, and 3 dellingtons were damaged; one of these erashed on roturn. None of the three interceptions reported developed into attacks.

Casual ties

9. One Wollington orashed on return from Rennet, after being damaged by flak, and was destroyed. 2 other cases of slight damage were reputed. None of our aircraft was missing.

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BHO/JT/PVD. BC/S.26342/4/ORS. 20th Soptomber, 1943.

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TARGET	GROUP	TYPE	5097123	ATTA	CK ON	TROSLIAS		WC23THC		DANAGE		DATER	183	RESULTS
				ISTRA.	ALT.	OVER EN.	NOT OVER EN. TEGRE		FLax	FEHER	NOT E/L	ATT-	NOT AT2050	-
MINELLYING PRISLAS	1.141	LANCLETER I LANCLETER III	6	6	X	1	-		1.1		-	2	-	36 mines 36 mines
MINELATING 1	OLL		12	12	<- \	-	-	-	5	-	-	-		72 nines.
LEAPLETS TOURS	91	RELLINGTON IN	7	5	1		1	-	•	-	-	-	2	
PARIS	92	VELLINGTON ID		3	:	-	:	:	. :	1	12	1	2	
le kans	93	TELLINGTON III TELLINGTON X	1 2	1 2	1	1	Ξ.	1	Ξ	1	1	1	-	
NANTES	93	FELLINGTON X.	5	5 1	:	:	1-	-	1	1	1	1.2.1	1	
RENORES	93	MELINGTON IN MELLINGTON X. DUTLEY V.	1 1 2	1 1 2	Ξ	Ξ	=	Ē	1E 1 -	Ξ	11		Ξ	
LAW)L	93	BILINGTON II	4 1	1	-	•	-	-	-	-	-	-	-	
LELY	LET	TOTLL	25	23	•		1 -	2	2 +	13 -	- 1	-	3	
	1 2 0	TAL	37	35	4	-	1	-	2 +	1E -	-	-	,	

NICHT RAID REPORT NO. 367 COLY NO. 16

BOLDER COLMAND REPORT ON NIGHT OPERATIONS - 2/3rd JULY, 1943.

Duisburg : Cologne : Minolaying.

SUDDLARY.

Duisburg and Cologne.

1. 2 Mosquitoes bombed Duisburg and 3 bombed Cologne from a high level. Bursts were seen in the built-up areas of both towns. All the diroraft returned undamaged.

Hinelaying

2. <u>Prisians</u>:- 8 Halifaxes laid a total of 32 mines off the Frisian Islands, returning without damage, although one interception was reported.

3. <u>N.W. Coast of France</u>: - 24 Wellingtons were despatched to lay pines off the N.W. coast of France. The task was completed by 19 aircraft, which laid 38 mines. Three sorties were abortive owing to technical defects and two because of the weather.

Meteorological Forecast

4. Home Bases:- Fit for take-off in 6, 4 and 3 Groups, but hazy, particularly in the north. For return, mainly 10/10ths stratus, or strate-oundulus, base 800-1,500 ft., except locally near the cast coast. Visibility generally 2,000 yards, but down to 1,000-1,500 yards locally in the north. Diversions on south coast and S.W. peninsula and in Training Groups.

Germany:- Much strato-cumulus at 1,000 ft. in N.W. Good chance of less than 5/10ths strato-ournulus in Ruhr, with well broken redium cloud.

France:- Generally shall amounts of cloud in N., little or none in S., and off W. coast. 10/10ths strate-cumulus over N. coast.

Sorties.

	#12.55 (F					1000	Ecching.	Minelaying
5.	(a)	No.	of	aircraft	despatch	ed	5	
	(2)			/	attackin	g primary area	5	27
		1.35	*	abortive	sorties	(weather	Nil	2
	(d)	*	11	aircraft	nissing.	· · · · · · · · · · · · · · · · · · ·		Nil
	(e)	n	11	mines la	id	•••••		

Weather Experienced.

6. Hone Bases:- Layer olcud with base below 1,000 ft. over E. coast districts at dusk, spread inland, afforting all operational groups by midnight. This spread to a line Sealand - Isle of Wight by 0600 but simultaneously a clearance noved southwards over Yorkshiro and Lincolnshire, giving more broken and high cloud.

Duisburg and Cologne:- 10/10ths strato-cumulus, base 1,000 ft., tops 3-5,000 ft., extended to just W. of the target area, but considerable breaks were found over the towns. Visibility poor to molerate.

N.W.France:- Little or no cloud. Moderate to good visibility. Wind at 6,000 ft., 070°-110°/20 m.p.h.

Prisians:- 10/10ths trato-outsilus, base 900-1,400 ft., tops 2-3,000 ft.; inibility moderate.

No 19000.

/Enery Defences......

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Enony Defences

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7. Duisburg and Cologne. No opposition was experienced at Duisburg, but over Cologne there was accurate heavy flak, which failed to damage the bombers. No enemy aircraft was seen.

Frisian Islands. " Plak was inactive, and the only interception reported .3 did not develop into an attack.

M.W. Coast of France: - Flak from constal batteries and ships was report 9. but none of the minolayers was hit. There was no evidence of fighter activity

Casualties.

The only casualty was a landing accident caused by a barst type. 10. No losses were incurred.

EDIO/JT/PVD. BC/S. 26342/4/ORS. 20th September, 1943.

TANGAT	GROUP	TIPE	ORTES	A/C REPORTING ATTACK ON	ABORTIVE SORTIES	MISSING	D	AM.GE		INTER		RESULTS
				PRIM, AREA	NOT OVER EN. TEHRIT.		FLak	1208	NOT	TT-	NOT	
DUISBURG	P. 9 .7.	MCSQUITO	2	2	0-	-	-	-	-	-	-	-
COLOGNE	8 P. P. P.	MOSQUITO IV	3	1		-	-	-	-	-	-	-
во	ивінс	TOTLL	5	5	•	-	-	-	-	-	-	-
LORIENT	1	WELLINGTON X	8	7	1	7	-	-	-	•	-	14 mine
ST. NAZATRE	4	WELLINGTON X	8	6	2	-	-	-	2	•	-	12 mine
FRISLANS	6	HALIPAX II AV	6	6 2	-	-	-	-	-	-	1 -	24 ^x nine 8 ^x nine
TEEST	6	WELLINGTON X	8	6	2	-	-	-	1 40	-	-	12 min
MINOR	LATING TOT	UL.	32	27	3	-	5	-	1 40	-	+	70 mine
-	TOTAL		37	32	5	-	-	-	140	-	1	
N.	5							×	1,00	0 1b.	1001 8 5.	

2/3 JULY, 1943. MINIANYDE DUISBURG COLOGNE

NIGHT RAID REPORT NO. 368 COPY NO: 16

BOMBER COMMAND REPORT ON NICH OPERATIONS - 3/4th JULY, 1943.

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Hamburg; Duisburg; Hinclaying, SUMMARY 7.1 17.

COLOGNE.

· * 1.1 1 1. A force of 653 bombers made a successful ground marking attack on Cologno; causing much industrial damage on the east bank of the Rhine. Many fires were still burning when recommaissance photographs were taken on the following day. Both fighters and ground defences were very active; of the 30 missing bombers it is estimated that 18 were shot down by fighters and about 11 by flak. (it is) = (. · · 14.13

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Hemburg and Duisburg.

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1. A. Of 8 Mosquitoes which were despatched to harass Hamburg and Duisburg, 7 2. bombed the primary target and the eighth returned early. - No damage was sustained. with the through the

Minclaying.

3. 14 Stirlings set out to lay mines off the Frisian Islands. 12 completed the task, laying 62 mines, and 2 failed to return. a horas canadas. · · · · · · · · and the second second

Meteorological Forecast.

451.81 (..... 4. Homo Bases: For take-off, small-accounts; of cloud above 2,000 ft., moderate to good visibility but locally less than 1,500 yards in north of 6 Group. For return, no cloud except locally along the cast coast, where there may be up to 8/10ths at 1,500 ft. ... Visibility at most bases more than 2,000 yards up to 0600 hours; but may be less than 1,500 yards after 0400 hours at a fow 1 and 5 Group stations. Diversions in Training Groups and south coast stations.

-n. (1994) - 3548) 81 a- 2011 🧑

Germany: much strato-cumulus in west, tops 5,000 ft. Base in Heligoland Bight 1,000 - 2,000 ft. n san na 🧹

Prance: little or no cloud in west. Cologne and route: small emounts of cloud over England, probably increasing to 7-9/10ths, base 1,000 ft., tops 5,000 ft. over the continent and at the target. (This amount may be an evenestimate). Visibility moderate. No. A. C.

Hamburg: cloud decreasing towards and at target to small amounts. Visibility good: Validade de la compañía de la The second se

Winds:	Bases - 03°B	03°E - Cologno	03°E - Hamburg.	
8,000 ft. 18,000 ft. 28,000 ft.	330 ⁰ /5-10 m.p.h. 310 ⁵ /20 m.p.h. 310 ⁵ /45 m.p.h.	350 ⁰ /20 m.p.h. 320 ⁰ /25 m.p.h. 330 ⁰ /30-35 m.p.h.	340°/28 H.p.h. 320°/30 n.p.h. 310°/45 m.p.h.	ų. P
\sim	(40 m.p.h. in S.)			
Cide the		LOGNE	de la telle	• • • •

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(여) (종) Plan of Attack.

Zero Hour 0115. Period of Attack 0111 - 0159.

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- 181 - E

All transformers

.../T.Is

Green steady warning flaris were to be dropped by 10 OBOR Mosquitous at 50 45'N 06°48' 'E, 16'm. S.W. of the release point. At the target, between sero - 4 and zoro + 40, the Mosquitoes were to drop rolease point flares (red with green stars and one white) igniting at 13,000', so that bombs simed at them by the main force on a heading of $015^{\circ}M$, at a speed of 165 m.p.h. I.A.S. would hit the aiming point. If cloud conditions proved to be such that ground-markers were visible, 33 backers were to aim green T.Is at red. If the red T.Is could not be seen, the backers up were to act as main force and bring their green T.Is back. The main force was to aim at red

1.1.1

T.Is., the estimated centre of all green T.Is or at release point flares. The not force was to be divided into 9 sections, each of approximately 70 aircreft. Loncasters and Halifaxes were to carry mixed loads, Stirlings and Wellingtons (exce Wellington 423's) were to carry incendiaries only.

Timing, Mosquitoos - .--6. Backers-up Main Force. 1.16 Z - 4 6 erro - Soot.1 Lencs. (Zero)-(2+4) 3 @ 1 min.intervals(2+2)-(2+4) 2 + 5 Sect.2 Lancs. (2+5)-(2+9) 4 @ 1 min.intorvals(2+6)-(2+9) Z + 10 Sect.3 Wells. (2+10)-(2+14) 4 @ 1 min.intervals(2+11)-(2+14) 2 + 15 Sect.4 Stirs. (2+15)-(2+19) 4 0 1 min.intervals(2+16)-(2+19) Z + 20 Sect.5 Hals.& Stirs. (Z+20)-(4 @ 1 min.intervals(2+21)-(2+24) Soct.6 Hals. (Z+25)-(Z+29) Z + 25 4 @ 1 min.intervals(2+26)-(2+29) Sect.7 Hals.(2+30)-(2+34) Z + 30 4 @ 1 min.intervals(2+31)-(2+34) -Z + 35 Sect.8 Lancs. (2+35)-(2+39) 4 @ 1 min, intervals(Z+36)-(Z+39) Z + 40Sect.9 Lancs. (Z+40--(Z+44) 2 @ 1 min.intervals(2+41)-(2+42) * plus 3 reserves. t and go at 200 C. 3 Bomb Loads. 13 Mosquitoes - 1 (3 flares green) + 1 (2 flares rod/green stars + 1 white) 7. + 2 T.I. rod (1 L.B.) 9 Halifaxos - 4 T.I. green (1 L.B.) + 3 x 1000 G.P. (L.D.) + 8 x 500 M.C. 25 Lancesters- 4 T.I. green (1 L.B.) + 1 x 4000 H.C. + 6 x 1000 M.C. unin a an art. Ana an an an the state of the second second Co.+ 1... 15 da Ali Routes. Orfordness (8,3,4 & 6 Groups) 51°22'N 03°20'E - 50°28'N 06°32'E. 8. - Target - Turn right - 50°47'N 07°23'E - 50°12'N 06°44'E - 50°20'N 01°32'E - (Dungeness (8.3.6 & 1 Groups) 32'E - (Dungeness (8,3,6 & 1 Groups) (Beachy Head (4 Group) A 3 6 · · · Sorties. St. Ste. No. of aircraft despatched . . . 9. 653 #11.11¹¹ 559 (85.6 9 (1.4 .".... reporting attack on primary area " alternative area abortive sorties (Unnipulative or technical · (sickness of crow . 1) lato 1) collision . . . 1) ,55 (8.45) 40° / 85 . 4. 14. 4-3-544 (acilision . . 1) (attacked by fighter 1) No. of aircraft missing . 30 (4.6%) • • Weather Experienced. 10. Homo bases: Operational and O.T.U. bases fit all night, apart from a few local mist patches. Fog and mist widespread over S.-. England. Routo: 4-7/10ths strato-cumulus, ba: 2,000 ft., tops 4-6,000 ft. with loc patches of 10/10ths aloud over see. Cloud cleared almost coupletely over the continent. Visibility moderate to good over the sea, hazy over the continent. . 1.15/Target

10 C

2.

155

Target: 0-2/10ths cloud, with moderate visibility. Hazy. Contrails at 23,000 ft. No moon.

Wind: 8,000 ft./350°/20 m.p.h.; 18,000 ft./320°/25 m.p.h.; 30,000 ft./ -35 m.p.h. 1,440,612,731

light Photographic Evidence.

11.	No. of ph	otographs with bom	bing examined		•	ins.	. 471
1000			(Plotted within 3 miles	•	•	101)	
1.25		ground detail	(" outside 3 "			27).	. 153
	1 11 11		(Unplotted	•	•	25)	te te
	N N	showing	(Plotted within 3 miles	•		271)	٠
Sectory.			(" outside 3 "			30).	. 318
		ut en	(Unglotted :	•	•	17)	X

No. of aircraft estimated from the photographic evidence to have bombed within 3 miles of the airing point

o Martin

103 . "

errative of Attack.

12. The target was accurately ground-marked by 7 Oboe Mosquitoes, at fairly regul r intervals, with only one gap, and the backing-up was continuous. The concentration schieved was not so good as several previous ground-marking raids, but the attack was indubtedly a success. The bombing on this o casion was almost entirely on the east cank of the Rhine, around the aiming point, but several aircraft bombed south of the arget along the line of approach, where decoys are believed to have been ignited.

avlight Reconnaissance.

Photographic cover obtained on 4th July showed damge caused by the sky-marking mid of 28/29th June and by the attack at present under consideration. Some of the hange may have been caused during the raid of 16/17th June, for which inadequate over was obtained. In general the damage on the west of the Rhine was probably done a 23/29th June, and on the east, where many fires were burning at the time of photoraphy, on 3/4th July. It is not, however, possible to separate the incidents exactly, ind the following paragraphs include all damage seen on the photographs.

4.4 .On the west bank of the river at least 1,000 acres of the centre of the town ore 00% dovastated, chiefly by fire. Very heavy damage was also seen on the east ank, throughout the districts of Kalk, Deutz, Buchheim and south Milheim. There was lso much damage in the outskirts, from Poll in the south, going west and north hrough Bayenthal, Sulz, Lindenthal and Ehrenfeld; to Richl, northeast of the main tation.

5. Many buildings on the cast bank were still burning at the time of photography, hus proventing any accurate assessment of the damage. However, the Humboldt-Deutz actories both at Kalk and at Deutz suffered very severe damage, and the Kalk Chemical actory, the West Deutsche Waggonfabrik and the Vervinigte Stahlwerke Vanden Zyhhen ero also damaged. Sover 1 large shods at the Kalk railway sidings were destroyed. urther south many factories were damaged; among those identified the most soricusly among d were the Citroen Werk at Poll, and the Monnesmonn Röhren-und Eisenhandel at "esthafen. Damage to residential and commercial property on the cast bank was probably overe; but large areas were obscured by amoke.

On the west of the Rhine there was commatively little industrial damage, but machinery firms and an electric motors works were among the 15 factories damaged. A arge number of offices of industrial firms were however damaged or destroyed in the control city area. 31 largo public buildings, excluding the Cathedral, which was impst unharmed, were damaged, 17 being practically destroyed. There was also much Evastation of public utilities and transport and railway property, including the town all, 3 post or telegraph offices and 2 police stations almost completely wreaked. bro than 850 acros of residential and business property were lostroyed and 63,250 Welling units rendered uninhabitable. .

12.

.../Altornativo Targets

18.5.

Alternative Targets.

17. 9 aircraft attacked alternative targets in the areas of Buskirchen (2). . Anchen, Alast, Bonn, Wolines (2), and Bruges and near the target.

Spucial Equipment.

OBOE, 10 OBOE Mosquitoes and 3 reserves were despatched to mark the tar 18. and 7 including one reserve, dropied red T.I's. The first of these fell about or mile short of the aining point, but the remainder were accurately placed. Apart from one long gap between zero + 25 minutes and zero + 35 minutes owing to the number of failures, the marking was almost continuous. 3 sorties were abortive oring to failure of the special equipment, and one of these, whose releasing sign were intermittent; released skymarkers, but not ground markers, 10 miles short of the target. The other 3 failures were due to engine failure (2) and generator trouble.

A 100 10 10 10 10 H2S equipment was carried by 5 aircraft as a navigational aid only H2S. 19. One returned early and one was lost.

der.

The Eastern Chain operated on the Wyoming frequency throughout the GEE. raid and on the Zanesville (target) frequency from 00.30 to 03.00 hours. The ave age range obtained on the outword route was 290 miles and on the return it was 12 The Zanosville frequency was subject to heavy jamming of the usual types miles. and only a few fixes of ever 250 miles were obtained on this wavelength. The Wyoring frequency, on the other hand, was almost free of jamming and 483 fixes of over 300 miles were obtained. This is the first roord of the results obtained changing the Virginia to the Wyoming frequency; although this frequency had been the air for three days, the enemy did not jam it on this reid.

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Enery Defences.

and share at a second state we 1 75 1... Plak and Searchlights. ... Defences all along the Duton coast went into 21. action against outbound bombers, particuarly at Knocks, Walcheren, and Antworp. The usual heavy fire was encountered over Anchen. . Over Cologno, the defences my have been assisted by our use of release point flares, which were dropped in spit of the fact that cloud was nowhere denser than 2/10ths. Intense heavy flak in barrage form was concentrated around the flares; clsowhere the flak appears to have been a mixture of moderate barrage, predicted and visual fire at targets ill minated by the numerous searchlights. Flak was reported from many places on the homoward route, especially at Bonn, Lille, Dousi and Charleroi, but fire was nowhere of more than modera to intansity. 64 aircraft were damaged by flak, mainly while flying through the barrage on the run up to, and over the target.

Enony wireless troffic intercepted on this night was mainly f: Fighters. the Gilze, St. Trend and Florennes areas, where 10 of the 11 claims of destruction of bombers were located. A total of 12 petrols were heard, these undertaking at least 25 pursuits. A notable feature of the night's wireless treffic was the number of references to failure of A.I., this may have been due to use of the countermeasure GROCKR. Returning crows reported a total of 13 attacks, 23 other combats, 15 approaches and 3 followings, a total of 59 interceptions by energy fighters. A slightly larger number of these occurred on the homebound than on T bound soute; 7 were reported from the target area. 4 reports of attacks by Britaircraft are included. 2 of these, both referring to attacks on a Lancaster by ? Loncastor, wore probably the same incident. 4 aircraft were damaged by enemy fightors and 3 by British piroroft.

23	
c).	ų

No.	òf	airoraft	missing.		•	•	2	•	•	30 (4.6%)
10	1		- 14 - 14 A	flak . fightor	•	•	4	 	•	82 (12.2;1)
±2				(other ca	usus	•	14)		en o	

From observations by orows and the claims of German pilots it is estimated that about 13 bomburs were destroyed by energy mircraft at Knocke, Flegennes, Antwe (2), St. Trond (4), Brussels, Liege (2), Col me (3) Huy and Charleroi (3). 11 ircraft were shot down by flak at Cologno (8), Knocke, Walcheren and Liege. 2 enery ircraft were destroyed and one damaged.

2 bombers were seriously damaged in landing accidents; other damage was nused by collisions, incendiary bombs, the drop-bar from a small bomb container, achine gun-fire from British aircraft, and a recognition signal which set fire to the aircraft.

Hamburg and Duisburg

4. 4 Mosquitoes were despatched to Hambur; and 4 to Duisburg. One Duisburg sortic is abortive owing to a technical defect, and the remainder completed the task. There is no opposition and all returned undamaged.

Minclaying.

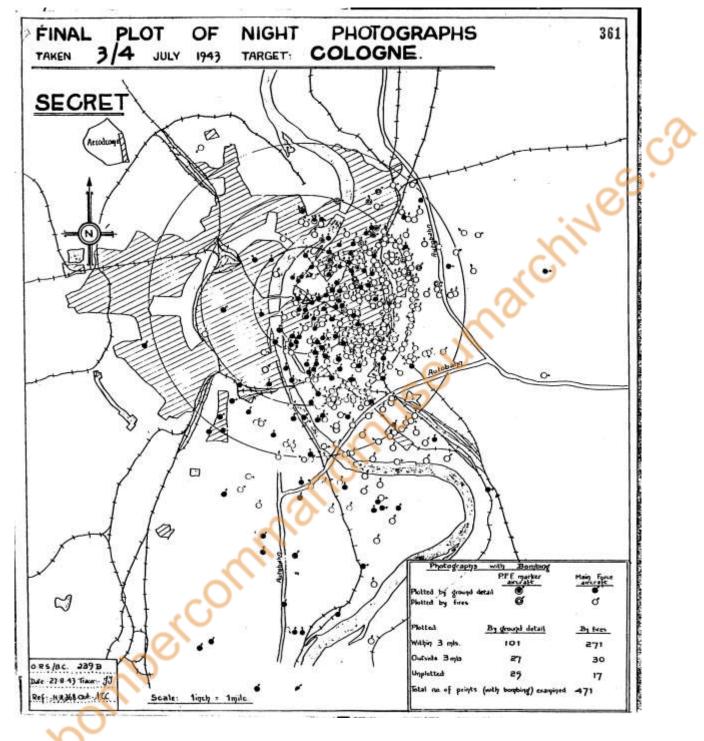
5. 62 minos were successfully laid off the Frisians Islands by 12 Stirlings of a force of 14. The other 2 are missing without trace. No damage was sustained by the returning aircraft.

D/14S. :0/S.2634.2/5/ORS.3. :Ind September, 1943.

TREET	Carol	1100	SORTERS		CK OF	BORT	VE SORTIES	MESING	, D	JLGE		DWER	CAPTIONS :	RESULTS Tons of Boxbs
Latoria				PRIM.	ALT. AREA	over Enery Terr.	NOT OVER INIIIT TERR.		FLAX	PIGHTER	NOT E/A	ATT- ACROD	-774 TON 197514	H.E. Inc
XOLOG2/E	8	Mosq.IV	1	4	-	2	1		-			1.7	-	1. 917.8 878.7
	PF.	Nosq.IX	6	3	-	1.1	2	- 1	-		-	1.5	•	4. 12.5 14.9
		Hol-IIAV	1		-	1.1					-	1	-	1. 33.9 47.8
	1 1	Hal.IA	8	8	118) B			-	1	-		10		
		Leno.I	8	7	1	-	-	-	-	-	-	1.5		
		Lana-III	16 -	14	1	-	1 1	-	2		-	1	2	
35	8	Bel.IL&V	1	1	-	-	-	-	-	1.0	-			·
23	HAIN	Hel.Li	8	5	-	-	1	2	-	-	-	100	-	Heavy Boobs
	FORCE	Lono-I	2	2	-	-		-	-		-	-	-	80001b. 40001b
	19300	Leno.III	15	14 -			1 H	1	-	-	-	-	-	2. 8 264
	1	Lano.I	25	20	-	-	3	2					1	/ / / /
	$2^{m} - 3$	Long. III	72	64	-	-	5	3	5	1 -		2	3	10
	1.1.1.1	Well.X	27	24	-	-	2	1	2	-	1	2	4	
	3	Stir+I	3	2		19.1	1	-	-					
		Stir.III	75	57	4	1	6	5	9	•	1E+ 1AC+1	"dire	4	
Sec. 3	11111	Lano.II	14	.12	-		1	1	1	-	1.1	3	3	3
*******	4	Hal.II4V	99	88	1 -		7	3	1E+ 2B+16	2.0		4.1	5	Peon Primary
		Hal.IA Well.X	23	21	1.044	·	1	1	3		1	1		H=carried by missing/C
11.000	5	Lanc.I	1 39	37	-	-	2	-	3		9	1	4	
	11	Lanc.III	102	94 -	1	-	6	1 1	11	- 1	2.03		17	the meril of
ALCON	6	Hal.ILAV	38	52	-	-	3	3	3		1.# H	1	4	2 N. 4 N. 1
	1	Hal. Li	4	4		-	1 -	1 - 1	-	- 1	-	1.12	- 1	(M)
3		Well-X	.26	18	1	-	4	3	12+	-	2C :	4	2	
OLOGNE	707		-653	559	9	5	50	30	28+ 28+	3:0+	18+ 5+0	18	41	··· ···
O T O O U T		••	000	555	1.53	1 2	~	~	1.iC+	0	+7	3	100	

COLOGNE: DUISHUNG:	HUJ-HURG:	MINTL	3/bth. July,	1943. (Contú:)
--------------------	-----------	-------	--------------	----------------

TLEGET	GROUP	TUR	SORTIES		PORTING	"""	TIVE GORTIES	MISSING	1.5	168 1		DITERCEPTIONS		RESULTS Tens of Bonbs
OLOGNE TOTAL	land			PRD4.	.LT.	OVER ENENT TERR.	NOT OVER ENE T TERP-		1	PICHTER	NOT B/		NOT TLACK- ED	
COLOQNE TOTLL			653	559	9	5	50	30	23+25-25-25-25-25-25-25-25-25-25-25-25-25-2	1 1	18+ 540 +7	18	41	
DUISBURG	8	Mosq.IV	4.,	3	-	<	1	-	-	-	-	-	1.12	P. 2.3 E.E.
H-MBURG	8	Motq.IV	· 4	4	2	1	-	•	-	-	-	-	•	P. 3.1 H.E.
MENELAYING FRISLANS	3	Stir-I Stir-III	2 : 12	2 10		-	:	2	-	2	-	1	1	11 mines 51 mines
MINELYDIG T	TAL		14	12	-	-	-	2	-	-	-	-	-	62 mines
TOTLL		•	675	578	9	5	51	32	28+ 28+ 1.40 +59	+1 +1	184 5,10 +7	18	41	
1 ² , C	5	<u> </u>			RAI	D TR	ACK NOT A	AVAILA	ABLE					



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MOST SECRET

NIGHT PAID REPORT NO. 369. COPY NO. 16

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No

BOMBER COMLAND REPORT ON NIGHT OPERATIONS 4/5th JULY, 1943.

Ruhr : Minelaying : Leaflets.

SUM LR.

Juhr.

1. 3 P.F.F. Rosquitoes left on a horassing raid against Duisburg. 2 attacked the target, bombing from above 10/10ths cloud on D.R. runs from GEE fixes. The third failed for technical reasons. All returned undaraged.

tinelaying

13 Stirlings of 3 Group laid 10 mines off the French _tlantic coast.
 asualties were sustained.

caflets

3. 4 Wellingtons of 92 Group dropped leaflets in the Bourges area without incident.

steorological Forecast

... Midnight frontal positions:- (1) war: from S.W. Norway to Sylt to Canabruck thence weak, to just W. of Cologne (2) occlusion from S.W. Norway to Spurn Head to Pumbroke Dook (3) cold from S.W. Norway to Banbeoula.

Bases:- Belt of medium and low clcud, with slight rain, probably less than 00 miles wide, associated with occlusion lying from Maah to Eristol at 2400. therwise fit all night, with variable low cloud at 1,500 ft. Slight ioing ssible. Well spaced medium cloud above 12,000 ft. Visibility more than 3 miles.

Germany:- Considerable high and medium cloud ahead of front (1) with well token low cloud. Much strato-cumulus over Ruhr, with up to 8/10 ths medium cloud 12-15,000 ft. 7-10/10 ths layered cloud, with gaps, over North Sea.

W.France:- Much low cloud below 1,000 ft. in N., breaking to nil S. of intes.

rties.			~		Ruhr	<u>.</u> 1	inel	aying	Leaf.	lets
(a)	No.	of "	aircraft	despatched	. 3	•••••	. 13	•••••	•••••	4
(0)			abortive	arca	. 2	••••	. 13		•••••	4
(d)	Y		technical	defect.)	: 0		: 0			0

ther Experienced.

Bases: - Fit all night.

Ruhr:- Much layered cloud to 20,000 ft. Good visibility above.

W. France: - Little or no cloud. Bood visibility.

No pon.

y Defences.

Little flak opposition was encountered. 2 abortive. intercondicativere reporter

None.

JT/PVD. 26342/4/ORS.

September, 1943.

TARGET	CHOOP	TYPE	SORTLES	A/C REPORTING	ABORTIVE	30ETTES		DAMAGE	LITERO.	EPTICNS	RESULTS
-	Al Anna A	1		ATTACK CN PRIM AREA	OVER EN.	NOT OVER	MISSING		ATT-	NOT ATTY	no.cours
DOLEBORC	8 P.F.F.	MOSCUITO IV	3	2	TERRIT.	EN. TERRIT.	-		-	-	
	2.2.2.		-	-	-	-					
DIRONDE R.	3	STIRLING I.	4	4	-	-	-	-	-	-	42 mines
		STIRLING III		5	-	-	-	-	-		16 nines
LA PULLICE	3	STIRLING I	1	1	-	-	-	-	-	-	3 mines
	NINEL			1				1999			
	TOT	TAL	13	13	· ·	-	-	-	-	-	40 mines
LEAPLETS CURCED	92	WELLINGTON ID	r 4	4	-	-	-		1	1	
T	0 T A L		20	19	-	4	•	-	1	E	
		Trace manage			1						
, m		, oet	, cc		and	JULI					

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NIGHT FAID REPORT NO. 370 COPY NO. 15

BOMBER COMMAND REPORT ON NIGHT OPERATIONS - 5/6th JULY, 1943.

"HANBURG : Cologne : Hinelaying. : Leaflets.

SUDD'ARY.

Hanburg: Cologne.

1. 3 Mosquitoes, out of a force of 4, carried out a harassing attack on Hamburg, while 4 others raided Cologne. All returned undamaged.

Minelaying.

2. 30 Wellingtons and Stirlings, out of a force of 34, laid 90 mines off the Prisians and the French Atlantic coast. 2 aircraft were lost.

Leaflets

3. 15 Wellingtons and Whitleys, of a force of 18, dropped leaflets over France without loss.

Meteorological Forecast

4. Bases:- Fit all night. Rainy cloud in 4 and 6 Groups, base above 1,500 ft. elsewhere, well broken.

Germany:- Weak occlusion lying just S. of Ruhr at midnight with considerable layer cloud to 10,000 ft, endmuch medium and high cloud above. Little cloud over North Sea, increasing beyond 05°E to 5-8/10ths., base 1,500 ft., and tops 5-700° ft. Wind to Ruhr at 18,000 ft., 280°/50-55 m.p.h., decreasing to 40 m.p.h. at target.

h. France:- Much cloud in Channel, base 1,500 ft., lifting slightly and breaking towards Lorient.

Sorti	es.	C	Borbing	Hinelaving	Leaflets
5.	(a) No.	of aircraft despatch " " reaching pr " abortive sorties	ed 8 inary area7		···· 18 ···· 15
1	(0) "	" abortive sorties	(tech. (defect.3)1 (weather .3)	2	3
1	(a) "	" aircraft missing.		2	0

leathor Experienced

5. Bases: - Fit all night.

Hamburgh- Much medium cloud.

Cologne:- 6/10 ths medium cloud, tops 12,000 ft.

Prisians: - Variable layer cloud, base 2-3,000 ft., with patches of 10/10 the at 800 ft.

W.France:- Much modium cloud. V.riable low cloud at 2,000 ft., with rain. No noon.

Buny Defences.

7. Slight predicted heavy flak was encountered from Cologne and Hamburg, Starchlights were rendered ineffective by the cloud. Mining aircraft met a little light and heavy flak from the usual coastal points. 38 sorties by controlled hight fighters were overheard, 6 of which were active against hostile aircraft in the areas of Gilse, Deelen/Schipol and N.W.Germany. 3 attempted interceptions and 2 inconclusive combats were heard. No claims were made. 14

. .

Casualtics.

8.] Two minelayers did not return, one from the Prisians and one from Brest. ives.co There is no evidence to suggest the cause or place of either loss. No other casualties were sustained, apart from one minor hit from flak over Brest.

MLM/JT/PVD. BC/S. 26342/4/0RS. 21st September, 1943.

...

...

a = x

TARGET	GROUP	TIPE	SOLUTINS	A/C REPORTING ATTACK ON	VEORAL	NE SOUTES	MISSING		DANCE	n	INT	TONS.	RES
				PRIM AREA	OVIS EN.	NOT OVER EN. TERRIT		113	REPORT	NOT	ATT-	NOT	1
HAL DOUBLE 3	8 P.F.F.	MCSQUITO IN	4	3	-	1	-		->	-	-	-	
COLOGNE	8 P.F.7.	MI OTINGSIN	4	4	-	-	-	P	-	-	-	-	
ICMBING T	TOTAL	1	8	7		1		-	-	-	-07	-	
MINGLAYING		STIRLING I	2	2	-		5	-	-	-	-	1	St.
FRISIANS	3	STIRING III	10	7	-	2	~	-	-	-	-	1	37
ST. N.ZAIRE	4	WELL: X	6	6				-	-	17	-	-	12
LORDEVT	4	WHILE X	8	8	-	\odot		-	-	-	-	-	16 1
TEBU	4	WELLS X	8	7		1	1	1	-	-		-	14 :
MINELAYIN	C TOTAL		34	30	3	2	2	1	-	-	-	2 ·	90 1
LEAVLETS				~	1								
205	93	WHITLEY V. WELL: IO	4	3	1			1-	-	-	-		_
LILE	93	WELL: X.	2	2		-					-	-	
		WELL: X	1	1				-	-	-	-	-	
PARIS	93	WELL: III	2	2		1.75		-	-	-	-	-	
ORTANS	93	WELL: X	10	1	•	-	•	-	- 1	-	-	-	
LEAFLET TOTAL	10.50	WELL III	18	5	- 2	1	-	-	-	-	-		
		1	60	52	2	4	2 -	1	-	-	- 1	2	-
<u></u>	0	C					÷						

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NIGHT RAID REPORT NO. 371 COPY NO. 16

5.C

BOMBER COMMIND REPORT ON NIGHT OPERATIONS, 6/7th JULY 1943.

Cologne: Dusseldorf: Minelaying.

SUHOUARY.

ologne : Dusseldorf.

4 P.F.F. Mosquitoes were despatched on a harassing raid against Cologne, and 3 more against Dusseldorf. 2 aircraft attacked each target on D.R. runs from GEE fixes; a fifth jettisoned its bombs 10 miles N.W. of Walcheren. courate flak was encountered, and 3 aircraft were damaged, but all returned afely.

inelaying

. 30 aircraft, out af a force of 56, laid 103 mines in the Bay of Biscay. ne aircraft was lost.

'teorological Forecast

Nidnight frontal positions: (1) occlusion from $56^{\circ}N$ $07^{\circ}E$ to $55^{\circ}N$ $08^{\circ}E$ to $48^{\circ}N$ $08\frac{1}{2}^{\circ}E$, becoming (2) warm to N. Italy, then (3) occlused costwards, with (4) a cold front from the top of the warm sector at $48^{\circ}N$ $03\frac{1}{2}^{\circ}E$ to Mantes to $47\frac{1}{2}^{\circ}N$ (9%.

Bases:- Variable amounts of cloud. Thundery showers persisting in use areas until midnight, but probably not so widespread as to interfere seriously with take-off. Later, cloud will dissipate, and fine weather will prevail in all areas except 6 and 4 Groups and 5. Midlands, where showers may continue.

Germany: - Much cloud in the frontal zone, dissipating eastwards.

Ruhr:- 7-9/10 ths at various levels up to 20,000 ft. Thunderstorms on route tith high icing index in cloud.

France:- Thundery developments in frontal zone. Showers over W. const, robably not severe; cloud base 2,500 ft., falling to 1,000-1,500 ft, in showers. ood visibility.

Prisians:- 10/10ths cloud, base 2,000 ft., 1,000 ft., in rain.

orties

			Cologne Dusseldorf Minelaying
	(a) (b)	Hc.	of aircraft despatched 4
)	area2
K	(0)	п	" reaching alter- native area0 1
	(d)		" abortive sorties (weather
	(e)		* aircraft missing 000 1
	(r)		" mines laid105
eat	ther I	stper	exced

Bases:- Showers persisted in East Anglia and Midlands till midnight, then fair or fine apart from a few isolated showers. Moderate visibility. Ruhr:-Much convection cloud, tops 20-25,000 ft.

W. France:- 4-7/10 ths cumulus and layer cloud, base 2,000 ft., locally 1,500 ft. 10/10 ths., tops 8,000 ft., in a narrow belt about 46 N. Good visibility.

Quarter moon, setting one hour before the attack.

Energy Defences

6. Intense heavy flak was accurately predicted all around aircraft in the Two aircraft on Cologne and one on Dusseldorf were hit. at 27-29,000 ft. Minelayers encountered slight heavy and light flak from La Pallice and neighbo islands, and light flak from the mouth of the Gironde. Two were domaged near

20 sorties by controlled night fighter.; were overheard, 4 of which were active against hostile aircraft. No attempted interceptions were overheard b one was reported.

Casualties

7. One Loncaster of 1 Group did not return from the Gironde. An aircraft w seen shot down by light flak at Brest and, although it was not routed through area, it is possible that the one in question may have strayed off its course.

3 slight cases of flak damage were sustained over the Ruhr, and two over Brest.

MLH/JT/PVD. BC/S. 26342/4/ORS. 23rd September, 1943.

TARGET	GROUP	TYPE	BORTIES	ATTA	CRONTING	APORTIV	SORTIPS	MESSING		DAMAGE		TI	102- 103-	RESULTS
	-			AREA	ALT. AREA	OVER EN. TERRIT.	NOT OVER EN. TERRIT		PLAK	PIGHTER	NOT E/A	ATTACKET	NOT	1.54.567.573
COLOGNE	8 P. 7 . F.	MDSQUITO IV	1	2	•-	1	1	-	2,6	2	-	2	-	
USSELIORF	8 P. F . F.	MUSQUITO IV	ŝ	2	1	-	- 1	-	140	-	-	-	-	*
	BING TOT	AL	7	4	1	1	1	-	عد	-	-	-	-	
CINELAYING	()	LANCASTER I	2	1	-	۰.	-	1	-	-	-	-	-	36 mines.
 \C 	N~	LANCASTER III	10	5	-	-	5	-	-	-	-	-	- 1	
10		STIRLING I	1	1		19. · • 9. · · · ·				-	-	-	- 1	9 mines
U.	1	STIR.DC III	3	2	-	-	1	-	-	•	-	-	-	
A PALLICE	1	LANCASTER I	3	1	-	-	2	-	-	-	-	-	1	
	1.1	LANCASTER III	3	3	-	-	-	-		-	-		-	24 mines
LORICEPT	4	WELL: X	8	7	-	-	1	-	-	-	-	-	-	14 mines
T. NAZAIRS	4	WELL. X.	8	6	-	-	2	-		-	-	-	-	12 mines
RC 37	6	WELL- X.	8	4	-	-	4 .	-	1.10 + 1	-	-	-	-	8 mines
DISLATING 1	OTAL	- (Qe+)	46	20		-	15	1	1 20	-	-	-	1	103 mines
	1 7 0 1	TAL	33		1	1	16	. 1	4.0	-	-	-	1	

NIGHT R.ID REPORT NO. 372

COPY NC. 16

BOMBER CONSLIND REPORT ON NIGHT OPER. TICKS, 7/8th JULY, 1943.

DUISBURG: COLOGNE.

SUDDLRY

vorological Forecast

Bases:- Fit all night. Rather slow clearance of cloud until 0100, reafter less than 5/10ths in N., East Midlands and East inglia, except in coastal tricts. 5-8/10ths cloud all night in W. and S.W. Isolated tops to 20,000 ft. Widlands, icing index high to 15,000 ft. and moderate above.

Germany:- Persistent thunder-cloud in N.W., tops above 20,000ft. High z index between 6,000 ft. and 15,000ft. Elsewhere, residual thunder cloud, al thunderstorms.

France:- Well broken convection cloud in W., with scattered showers.

ies

65			Dai	isburg	Cologne
(a)	No.	of	" reporting attack	• ••••••	. 4
(6)		"	" reporting attack primary area	· · · · · · · · · · · · · · · · · · ·	. 3
(o) (d)		8	abortive sorties (bombs hung up)	o	1
(a)		11	aircraft missing.	o	0

ther Experienced

Ruhr - No cloud. Excellent visibility. No moon.

ay Defences

Intense heavy flak, accurately predicted, was encountered from both targets. Ty night fighter reaction was on a very small scale, and none were seen.

alties

all our aircraft returned undrmaged.

. 26342/4/ORS. . September, 1943.

LURGET GROU	P Nos	TIPE Mosq.IV Mosq.IV	SORTIE	4 3 7		OVER 1 DEED/ TEED/ TEED/ 1		 Flock PIG				
DUISSURG PP	P Mose	Mosq.IV Kosq.IV	V 4 - 8	4	-	- 1 1		<u>s</u> e				i i i i i i i i i i i i i i i i i i i
COLOUTE PP	2 Kos	Mosq. IV	v 4 8	3	-	1	<u>.</u>	58	<u>-</u>			j S S S S S S S S S S S S S S S S S S S
				7	-	,	<u>, 2</u>	Se	<u>۔</u>	<u>, , , , , , , , , , , , , , , , , , , </u>	<u></u>	s Č
							2	58	J	, c	0	5 S
			.0	<i>.</i> 06	Jr.							
N.001	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	R	S,									

NIGHT RAID PEPORT NO. 373

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- 8/9th. JULY, 1943. BOLBER CONMAND REPORT ON HIGHT **OPERATIONS**

COLOGNE: DUISEURG: MINELAYING: IZAPLETS.

SU. M.RY

COLOGNE

. II. .

A force of 282 Lancasters and 6 OBON Hosquitoes made a good attack on 1. Cologne, where the sky warking technique was used on account of cloud over the target. Reconnaissance photographs show that the attack brought the not area damaged to more than 1,000 acres (or over 3,000 gross acres). 7 Lancasters failed to return, mainly owing to the activity of night fighters, which are believed to have shot down 6 of the bombers. 1.24 1 . .

the second second Duisburg

2. . . 3 Mosquitoes made a harassing raid on Duisburg, returning uncamaged. i de la compañía de l

1

37

Minelaying

22 Vellingtons were despatched to N.W. France, 20 Stirlings to W. France and 4 Wellingtons to S. Texel. A total of 106 mines were laid in enemy waters by 41 of these aircraft. One Wellington failed to return.

125 5 1

21 aircraft o. a force of 27 despatched by Training Groups dispersed leaflets in northern France, all returning undanaged. 2.01 + tr v

A State

1 1 m

1 . at ... 120

Heteorological Forecast

Warm front approaching from the west will be over Ireland by midnight, and 5. will be W. of Ireland by 0400 hours, giving rain clouds to Curberland-Lands End, with considerable broken medium cloud in N.". England. 6 i 19 i

Home bases thunderstorns at take-off, but probably sufficient breaks in the cloud to enable aircraft to climb to operational heights. Layers of cloud from 3-10,000ft. tups of curulo-nimbus 15-20,0.0ft., with isolated tops 25,000 ft. "reezing level 6,000 ft. Gape in cloud on return will be large, and in many areas there will be no cloud.

W. France:- local showers, broken convection cloud, base not below 15,000ft.

Germany:- thunderstorms over W. and central Germany, dying out during the night, but local thunderstorms persisting. Much cloud in extreme S., and variable amounts of thundery cloud, in E.

Ruhr:- possibly 5-7/10ths. cumulo-ninbus, tops 15-20,000ft. above 15,000ft. cloud may be less than 5/10ths.

Wind: 500mb 3400/50m.p.n.(outward) Baues to O1ºE. 340º/80 m.p.h. 60 n.p.: . (return) 310º/30-350.p.h. 310º/45 E.p.h. 1ºE. to 4ºE. 280º/30 n.p.h. 4ºB to Ruhr . :---280º/25n.p.h. COLOGNE ******** Plan of

1. 11 :

6. Zero hour 0110 hours

Tttack

Period of .ttock 0110-0129 hours.

4 OBOE Mosquitoes were to release green steady warning flares at 50%41% 06040'E. 21 miles S.W. of the release joint. Between Z and Z + 15, the Mosquitoes were to drop release point flares (red with green stars and white), and also red T.I's as groundmarkers of the aining point. If the groundmarkers were visible through cloud, 14 backers up were to aim green T.I's at red between 2+1 and 2 + 17. The main force, consisting of Lancasters carrying pixed loads, were to ain red T. I's at the contro of all green T. I's, or the release point flares on a heading of 0230M. at 165 n.p.h. I. a.S. If no ground or skyparkers were visible on arrival, crews were to borb on 3.T.... As an aid to navigation on the way home, 8 Lancasters of the P.P.F. were to drop yellow T.I's at 50040's .11 flares were to ignite at 17,00', red T.I's to cascade at 10,000' 07º15'E. and green T.I's at 3,000', until Z + 15; after that time one green from each aircraft was to cascade at 10,000'. 1. 20. 200

Tining

7	' •	Mosquitoesx	Backérs-up	Main Force
•		Zero		Sect.1 (2) - (2+4)
		Zero + 5	4 48 1 min.intorvals (2+1)-(2+4)	Sect.2 (Z+5)-(Z+9)
		Zero + 10	4 at 1 min.intervals (Z+6)-(Z+9)	Sect.3 (2+10)-(2+14)
	•	Zero + 15	4 at 1 min.intervals (2-:1)-(2+14)	Sect.4 (2+15)-(2+19)
		1299 C 1399 C 400 C 400 C	2 at 1 min.intervals (2+16)-(2+17)	
			plus 1 reserves.	

Bomb Loads - Markers

6 Mosquitoes - 2 T. I. red (1LB) + 1x3 flares green + 1x3 flares (2 red/gre 214 ... + 1 white) 8 Lancasters - 4 T.I. green (1LB) +1x4000 HC + 5x1000 HC. 6 " - 3 T.I. green (1LB) + 1 T.I. yeilow (LB) + 1x4000 HC + 5x1000 HC. - 2 T.I.yello: (LB) + 1x4000 HC + 5x1000 RDX. 2

Route

51°22'N. 03°20'E - 50°30'N. 06°30'E - Warget - wide right turn - 50°40'N. 9. 07º15'B - Dungeness.

10 U X N N MAR *

Sorties

10.	No.	of	airoraft	despate	ched							. 288	1.1.1.1.1.1	
			" rep	orting	attack	on	pri;	vro	area.			. 21.8	(86.21)	
		n				18	014	ernat	ive -				(1.7.1)	
5	·		abortivo	serti	es (teal	hnic	al a	and a	anipu	lati	ve 22)	900 (1877) (178 	(1.7,3).	
		•••			(111)	ness	s of	Crew			2)	• 28	(9.7,5)	
	n		airoraf	t niss	(res	erve	e ein	reraf	t.no:	rod :	1)		(2.4;5)	

39 20

Weather Experienced

11. Home bases:- Showers persisting locally until about midnight, after which generally small amounts of cloud, with moderate visibility.

• 3

Route:- 4-6/10ths. convection cloud, tops 10,000ft., with isolated tops to 20,000ft. over North Sea. Occasional clear areas over the Continent. On the return cloud broke to small amounts over the English coast. Much static. Heavy or moderate rime in cloud tops. Dense but non-persistent contrails at various heights between 18 and 24,000ft., especially near cloud tops. Winds at 20,000ft., 310°/35 m.p.h.

Target: - 9-10/10 ths. layer and convection cloud, main tops 8,000ft., with cumulo-nimbus tops to 17,000ft. Wind at 20,000ft. 3000/25-30 m.p.h. Surface wind, westerly/15-20 n.p.h. Half noon, setting at 0115 hours (approximately). Night Photographic Evidence

12. No night photographic ovidence is will ble oving to cloud over the target. Narrative of Attack

13. Owing to the failure of the first ONOE Mosquito no markers were available until zero + 5 minutes. However, although crews had been given permission to bomb on E.T.A. if no markers were seen, many whited for the release point flares to be dropped. Nost of those which did bomb on E.T.L. used a D.R. run from the last GEE fix. 2 main force aircraft aimed at red T.I's which disappeared rapidly into cloud, and the green T.I's released by one backer-up were not seen by any of the main force. Despite the failure of the first Mosquito, and the irregular timing of 3 OBOE aircraft which attacked, the raid appears to have been-well concentrated. This is borne out by the severe dimage shown on daylight reconnaissance photographs.

Lovlight Reconnaissance

12 2 1

14. Reconnaissance photographs which tere taken on 16th., 17th., and 25th. July, cover the whole of the city of Cologne, except for a small part of Eurenfele. Fresh damage seen on the west bank of the Ehine includes several factories, including an important cable works, a factory for shell fuses, 3 machinery firms, a chemical works, and an aluminium foundry besides a number of small firms engaged on such products as a regarine, furniture and footwear. ...dditional durage has also been caused to residential property. Since no assessment of the Chinge on the east bank was made after the reid of 3/4th.July owing to smeke, it is not possible to separate fresh incidents from earlier damage.

1

15. The damage caused by all raids on Cologne up to and including that on 8/9th. July amounts to more than 1,000 net acres (or 3,300 gross acres) of property destroyed or damaged. Over 75; of all the fully built-up districts has been devestated and in the central city area alone 83% of the property has been destroyed. Nore than 76,000 housing units are uninhabitable, of which at least 3,000 were destroyed or damaged in the raid of 8/9th. July.

16. Damage on the east of the Phine, where most of the important industries of Cologne were situated, was very severe. Most of this was probably the result of the groundmarking raid on 3/4th. July, but some may have been done on 16/17th. and 28/29th June or 8/9th. July. '3 factorial rated as priority 1+ were damaged. Chief of these was the Humboldt-Deutz Motoren ...G., the Kalk branch of which was nore than 75% destroyed, while the Deutz branch sustained serious damage to its main workshops. 28 of the 35 workshops of Gottfrid Hagen a.G. were destroyed and nost of the others damaged. Government of Felton and Guilleeune Callswerk at Mulheim were also damaged. In addition 12 other large identified industrial concerns were damaged, and 20 small unidentified metodies were also affected. In the whole of Cologne bout 80 factories were damaged between 16th. June and 9th. July.

Alternative Targets

17. 4 aircraft attacked alternative targets in the areas of machen, Louvein, Malines and Liblar (50°49'N. 06049'E), and another boubed an unspecific defended area on the Dutch Caost.

...../Special Equiptient.

Special Equipment

18. <u>ODCE</u> 4 ODOE Mosquitoes and 2 reserves were despatched to find and methe target. The first Mosquito failed owing to intermittent signals and althout the second was on time, the third was 3 minutes carly and the fourth 2 minutes late. The OBOE set of one of the reserves detenated carl the other was not called.

.

19. <u>H2S</u> One of the 2 aircraft carrying 2S for navigational purposes used it to confirm his position at bombing, but the set of the second aircraft was unserviceable at the target.

20. GEE The Eastern Chain operated on the Woming frequency throughout the raid and on the Zanesville (target) frequency from 0040 to 0210 hours. The average range obtained on both outward and honeward routes was 255 miles. The poor ranges were, according to most reports, due more to the weakness of our om signals than to energy jaming. On this raid the Woming frequency was jamed, though not heavily, and results on this wave-length were much better than on the Zanesville frequency. The type of jaming encountered over Northern France showed that the energy indreased his jaming in that region and was experimentin with a form of spurious pulse which confused the less experienced navigators.

Eneny Defences

21. <u>Plak and Searchlights</u> Guns at Walcheren, Bruges, Eupen and Lachen all went into action against outbound bonders, on: those at Cambrai, Lille, Ameins and Dieppe against homebound aircraft, but flek was nowhere reported as more the moderate. As a result of the weather conditions prevailing, the flak over Cologne was nainly of barrage form, concentrated particularly round the release point flares. Searchlights were ineffective owing to cloud. "43 aircraft were damaged by flak. This is a large number for so small a force, but not unusual large for an operation where barrage fire was predominant.

S. 5. 5261

22. <u>Fighters</u> Wireless traffic relating to 11 petrols was intercepted. These patrols made at least 19 purshits, and claimed four victories. The principal areas of operation were Gilze and St. Trend (outbound) and Florennes (homebound). Returning prevs reported 30 interceptions, including 10 attacks, 8 other combats and 12 approaches. Of these 5 were outbound, 9 were homebound and 16 were over the target. There is no evidence of the method by which the unusually large number interdeptions over the target was achieved. 6 aircraft were damaged by fighter attack.

60 G 19

Casualties

e .. .

23. N		dunged	(a)	flak42		1 (2.4,4
\mathcal{O}	4		(b)	fighter 5 flak and fighter 1	}	51 (17.7.
9				incendiary bombs 3 photoflanh explosion 1) ·	

The scarcity of observations on this night makes it difficult to assess with any assurance the cause of bomber losse. It seems likely that 6 aircraft were destroyed in air-combats at Bruges (2), intwerp, Louvain, Charleroi and St. Oper. One aircraft may have been destroyed over inchen by flak.

Two Ju.88's were destroyed, both by Loncasters of 5 Group:

1.0

. 7. 1.1 .4

Minelaying

24. <u>N.V. Frence</u> 22 Wellingtons were despatched to lay mines off Lorient, St. Nazaire and Brest. A total of 36 mines was laid by 18 aircraft. The mines of 2 aircraft dropped "safe", and a third aircraft was unable to pinpoint. One Wellington is missing without trace. The only interception reported did not develop into a centrat.

25. <u>W. France</u> 20 Stirlings were sont to La Pallice and the Gironde Estuary, where 62 mines were laid by 19 aircraft. The twentieth Stirling returned early owing to a technical defect. One minelayer was damaged by an enemy aircraft, and another drove off a fighter by opening fire.

26. S. Texel 4 Wellingtons laid 8 minus off S. Jexel without incident.

Leaflets

27. 27 Wellingtons and Whitleys of Training Groups set out to scatter leaflets at many places in northern Prance. 21 aircraft reached the primary area, one an alternative area (Gaen) and 5 sorties were abortive owing to technical defects (3), severe icing (1) and flak drnage (1). In all 4 circraft were damage by flak on route; one Wellington was intercepted by an energy fighter, but no attack was made.

and

BYO/JT. BC/E. 26342/2/ORS. 24th. September, 1943.

TURGET	GROUP	TYPE	SORTIES	TL.		ADORTE	TE SORTLES	MISSING		MIGE		DPPERC	EPTICKS	RESULTS Tenn of Bonba
14	1	1		PRIM.	alt. AREA	OVER ENERT TERR.	NOT OVER SID	Ι	FLR	PIGHTER	NOT E/A	ATT-	NOT	H.E. Inc.
CLOCHE	8 1977 -	Mosq.IX Mosq.IV Lanc.I Lang.III	2 4 4 10	1 2 4 8	-	2#		Ξ	- 1 2	111	-			P. 669.3 397.0 12.1 7.3 M. 18.7 11.6 Heavy Bombs
<u>v</u>	8 IGAER FORCE	Lanc.I Lonc.III	1 12	11	1	1 -	1	ī	Ê	1AC	2	÷	-	80001b. 40001b. P. 1 243
	1	Long.II	21 83	18 72	1	2	27	1	110+1 200+5	1	-	-	1	<u>x. 1 6</u>
	5	Long.III	41 110	31 101	3	-	5	1	7 23	18+ 140 140+ 20	- 1B+ 240+1	3 5	11	C
COLOGIE TOL	Т	ŀ	288	24.8	5	6	22	7	18+ 2/JC +39	18+ 3.00+ 36	18+ 2\LC +1	10	20	5
DOISBURG	8 PFP	Mosq.IV	3	3	11	-		-	-	•	-		-	P. 2.3 tons. H.E.
50MBD1G 7072	T		291	251	5	-6	22	7	1B+ 2.C +39	1B+ 30 +26	13+ 2.0 +1	10	20	\mathbf{C}
NINELAYING	1	Woll.X	8	8	. 1	4	-	-	-	- 1		-	2	16 mines
LORDONT LICKDE R.	3	Stir.I Stir.III	8 2 10	6 1 10	÷	-	1		-	-	-	67		12 mines 36 mines
A PALMON	3	Stir.I Stir.III	26	26	1	1	:	2	-	2	-	1	1	} 26 mines
s. TECEL BREST	4	Well.X Well.X		4	-	-	2		-	-	1	-	-	8 mines 8 mines
CONT.YDG 1	OTAL		46	41	2				-	1	2		2	106 mines

...../ContC:

TARGET	GROUP	TYPE	SCIETUS		CK ON	ADORY	WE SOUTHES	ATE-ING	D	ALC:US	-	-1 128:00	a TICES	RESULTS
TAPLET	GREAT.	146	out is	PRIM. AREA	ALT.	OVER ENERY TERR.	NOT OVIR	LIDDING	FLAK	FIGHTER	NOT E/a	A T- A XDED	NCT ATT-	
HLOIS	91	Well. Io			-				1		-		1.1.18	11 12
DREUX	91	Well.Ic	11	1	-	11/1			-		-			
ALINICON	91	Well.Ic	1		- /				-	-	-		-	r +
ANGERS	91	Well.Ic	1	1		-	-	-	1	-		-	-	
ALCEPTAN	91	Voll. Ic.	1	- 1	-	-	-		-	-	-	-	-	
CHATEAUDUN	91	Well.Ic.	1	1	-	-	-	-	-		-		1.00	
LeVAL	91	Well+Io	1	1		-	-		-	-	-	-	-	
States and a second second	93	Well-X	2	1	-		1	- '	-		-	-	+	-
OKLE-NS	93	Well.III	2	1	-	-	1 1	-	-	(-)				
and the state	12753	Well.X	2	2	-		H			-			-	1
P.RIS	93	Well.Io	10	1	1		2	-	1.0		-		1	-
CLEN	93	Unit.V	4	3	+	-	1	-	-	-	-		-	-
States Agen		1		1					140		1.	1	1.00	
LE.FLST TOTA	L	1	27	21	1	-	5	-	+4		-	-	1	1
DOMBERS & MEN	ELYING TOT	t C	337	292	5	6	. 26	8	12+ 2,10 +39	10+30 +3¢	12+ 210 +1	11	22	
TOTAL	2	2	364	313	6	6	31		11+ 340 +43	111+34C +3#	10+ 240 +1	11	ચ	

CCP! NC

TONER CONCLUD REPORT ON NIGHT OPER. TICKS - 9/10th. JULY, 1943.

GKLSENKIRCHEN: Minelaying:

f .

14

SUDDLIRY

GELSENKIRCHEN

1 E

1. A force of 408 Halifaxes and Lancasters, with 14 OBOE Hosquitoes (4 under) training) set out to make a skymarking attack on Gelsenkirchen. Only 5 markers attacked successfully, and one of these was too late to assist the main force. The attack was therefore somewhat scattered, and the resultant damage not preat. Observations of falling aircraft were few owing to heavy cloud, and the cause of loss of most of the 10 missing aircraft is therefore unknown.

Hinelaying

18 aircraft of 3 and 6 Groups laid a total of 80 mines off the Frisian. 2.

Meteorological Forecast

Estimated midnight position of front: _occluded S. Norwey - near Ruhr Stuttgart - 50°N. 15°E.

Home bases: fit for take-off. For turn betwee: 0400 and 0600 hours 4, 5 and 3 Groups and half the bases in 1 and 6 Groups expect visibility less then 1,500 yards by 0400 hours, or to have low stratus; visibility mainly at 2,000 yards up to 0400 hours in 8 Group. Diversions: Haupstead Non Moreton-in-the-Marsh, Enstone, Gaydon, Honeybourne, Upper Hoyford, Chipping if Wing, Edgehill, Tilstock, Sleap, Sleighford and High Ercall.

mail

English Channel: 100

100 10

France: strato-cumulus with patches of fog in N.T. Snall amounts of cloud elsewhere,

Germany; . and N.W., broken layers of cloud, probably all below 15,000 fcet. a contra car and a

Target: probably more than 5/10ths. strato-curalu., base 2,000 feet, tope 6,000 feet, and shall amounts of medium cloud. Visibility poor, with thick haze. No cloud above 14,000 feet.

Route: much strato-cumulus up to 15,000 feet.

Wind: 750 ab.

500 mb. 350 mb. 280°/10 n.p.h. 280°/10-15 n.p.h. 270°/20-25 n.p.h.

. ascs.

310⁰/25 n.p.h. 310⁰/30-35 n.p.h. 310⁰/50 n.p.h.

Ter et.

GRISETKIRCHEN

Plan of Attack

East coast - 5305 H. 04 J'E.-N. end of Tokel Island - 5301 Route. 07°05'E - T.P.GET - 50°40'N. 07°25'E - 50°05'". 06°35'E - 50°00'II. 01°15'E - E coast.

En route to the target, 7 OBOE Mosquitocs were to drop tracking Method 5. flares: n red steady at position 'L', 51053'N. 07005'E., 231 miles N. of the release point; green steady at position '.', 51044'. 07005'E., 13 miles N. of the release point. At the target, between zero and Z + 30, the Mosquitoes were to drop release point flares (red with green stars and white flares). ...11 flares were to ignite at 17,000 feet. If no skymarkers were seen on arrival, airoraft were to borb on B. T.A. 4 aircraft of 8 Group were to take part in a training attack from (Z + 45) - (Z + 60). The importance of flying streight and level over eneny territory, and particularly during the boobing run, was to be stressed to all crews. No comeras were to be carried.

Mosquitoes* Zero (Z +'5) (Z + 10)

(Z +

1 1 A.C

7.

Timing.

OHCL

6.

. (Z + 15)-(Z - 19) . . (2 + 15)4 - . (z + 20-(z + 24))(z + 25)-(z + 29)(z + 30)-(z + 34). . (2 + 20)5 n Z + 25 6 Lancasters 30) 7 11 plus two reserves as required. · 107 12:14 Forb Loads 10 Mosquitoes - 1(3 flares red) + 1(3 flares green) + 2(2 flares red/green stars).

18

4 Mosquitoes - 3 x 50001b. H.C. + 1 T.I. white. · 20. 4 - 1 10

all main force aircraft to carry nixed loads.

Zero Hour - 0110 hours.

 $\frac{2ero}{(2+4)}$

(Z + 5) - (Z + 9)

(Z + 10)'-(Z +14)

11.011.

Sorties

8.	No.	of	aircraft despatched 422	
			" reporting attack on primary area	0.0
			" " 🗥 " alternative area	0.53)
	'n	n	abortive sorties (technical and manipulative defects	
	15		(reserve circraft, not called. 2) 34 () (sickness of crew	3.15)
			aircraft missing 10 (:	2.45)

Weather Experienced

9. Home bases: broken low and medium cloud for take-off, with good visibility; rine later.

Route: broken low and medium cloud increased to 10/10ths., tops 15,000 ft. over western North Sca. Cloud thickened to about 20,000 feet in frontal some about 04000'E. Slight rime and St. Elmo's fire reported. Contrails at 18-20,000 feet.

Target: 10/10ths. cloud, tops 15-18,000 feet, with a broken layer about 20,000 feet. Surface wind, W.S.V., 10-15 m.p.h. Half moon, setting at about 0130 hours.

Night Photographic Statistics.

None, since the aircraft Cid not carry caneres. 10.

> 115 1000

Harrative of attack

The first release point flares were dropped at zero + 2, after which the 11. intervals in the marking were, 10, 13, 5 and 12 minutes. There were thus 2 gaps of 3 and 6 minutes (the last Mosquito attacked after the end of the raid). Unfortunately a sixth Mosquito dropped release point flares 10 miles north of the

..../target, owing to a

Period of Main Attack - 0110-0144 hrs

121.

Main Force

3 - Halifaxes

Scot. 1 - Lancasters

1 2 - . "

target, owing to a technical error, during the longer gap, thus diverting some of the main force from the target. The majority of the aircraft appear to have bombed on the correctly placed markers, or on E.T.M., but the attack was nevertheless scattered.

Daylight Reconnaissance

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12. Resonnaissance photographs showed the canage caused by this raid and by the attack of 25/26th. June. ...part from severe damage to the Schalker Verein Works of the Vereinizte Stahlwerke A.G. (priority 1) and to a large building of the Deutsche Libbey Owen Gesellschaft, in the jotthusen district, which specialises in machine-made glassware, only south red incidents were seen. In all, 13 business or residential buildings were destroyed or damaged.

13. 2 diroraft attack alternative target in the arcas of Purgsteinfurt and Terschelling.

Special Equipment

14. <u>OBOE</u> 7 OBOE Mosquitoes and 3 reserves were despatched to mark the target. 5, including one reserve, completed the tark, but oking to the failures, tiving was poor. One reserve was not called, and the third, when called, was in an unsuitable position. Of the 3 failures, one due to unsatisfactory equipment, and 2 to other technical defects. 4 OBOE Mosquitees, with freshman crews, were sent to beab after the main attack. 2 boubed on OBOE, one on E.T.A., and the fourth returned early owing to OBOE failure.

15. <u>H2S</u> H2S was carried by 3 circraft as a navigational aid. In all cases it was unserviceable before the target was reached.

16. <u>GEE</u> The Eastern Chain operated on the Zancsville frequency from 0040 to 0145 heurs and on the Wyoning frequency throu hout the raid. The average range on the outward route was 250 miles and on the hourward route, 260 miles. Botter results were obtained on the Wyoning than on the Zanesville frequency, but the enemy were obviously aware of the change from the Mirginia to the Wyoning frequency. However the jamming on the newer frequency was not strong, the range being limited by the weakness of the B signal.

Enerv Defences

17. Flak and Searchlights There appears to have been little flak activity against the outbound borners; reports mention only the defences of Texel and hengels. Flak over the Ruhr was intense to mederate, and, owing to cloud, mainly barrage. Similar conditions prevailed in the target mean. Searchlights selden exposed, and were ineffective when they did, owing to cloud. Homebound barbers reported activity at a number of points, notably mients, Poix and Abbeville, at the of which places there was accurate heavy flak. 101 aircraft were daraged by flak. This was nearly 24% of the total force, a ve high percentage which was probably due partly to the intense barrage fire and points the length of route for which the raiders were exposed to the Ruhr defences.

18. <u>Pighters</u> Only 6 patrols were heard operating on this night, intercepted ircless traffic indicating that they made 6 pursuits in the areas of Leeuwarden, Wente, Florennes (2), and 2 unlocated. There was only one direct claim of success, although 3 other references to the destruction of benders were overheard. Crews reported 8 attacks, 9 other combats, 11 approaches and 5 followings, a total of 33 interceptions. Of these, 6 were reported by outbound benders, 8 occurred in the target area, and 19 on the honeward route. It appears that fighter activity was on a reduced scale. Weather conditions probably prevented the usual number of fighters from taking off, and may also have honpered them from contacting our benders. One aircraft was damaged by fighter attack.

...../Casualties.

.27

Casualties .

- 11

www.bl

12.

19.	Nc.	of	airoraf				10	(2.4.)
115000		H		damaged	(a)	flak99)	I I HONO DOMAN	
	10			1.199.997. 0 79.999	(b)	flak & fighter. 1).		(24.47)
5					(c)	incendiary		10. SACK
					• •	bonbs f. flak 1)	4.44	
		23	0.00		(c)	incendiary boobs 1) .		18. Stall
				1.00		other causes 1)		6 C

The heavy cloud prevalent during the night are ably accounted for the scarcity of observations of aircraft shot down. With the limited data availabl it is extremely difficult to deduce the position or cause of nost of our losses Plak was probably responsible for the loss of bonb are at Gelsenkirchen (1) and miens (2). One bonber was seen shot down by a fighter south of Charleroi and 2 others were destroyed north of miens and at the nouth of the Some, though t cause of loss is unknown. One aircraft orashed on return owing to engine fail Crews report 2 energy aircraft destroyed, both viotories being witnessed by othe aircraft; 3 energy aircraft were danaged.

Hinelaying

Ind 1

END/JT. FC/S. 26342/1/ORS3. 29th. September, 1943.

OBLIGENCIECTEN B Meage_IX AUE AUEL OVER AUEL MOUST DEPT PELLI PICHTER NOT ATT- AUEL NOT GELSENCIECTEN B Meage_IX 4 2 - 1+1* - <td< th=""><th></th><th>A. Sec.</th><th>1 Second State</th><th>La AG SOR</th><th></th><th>PORTING</th><th>ALLON</th><th>TIVE SOLTIES</th><th></th><th></th><th>LCE</th><th></th><th>INTER</th><th>EPTIONS</th><th>ABSULTS</th></td<>		A. Sec.	1 Second State	La AG SOR		PORTING	ALLON	TIVE SOLTIES			LCE		INTER	EPTIONS	ABSULTS
GEZESSCURPORT 6 Messart 6 2 - 1 -	GELSEXIPCION	GROUP	TYPE	SORTIES	PRIM.	ALT.	ENDENC	DET	MISSION		PIGHTS			ATT-	Fens of Lonbs H. E. In
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S. TEDEL 6 Well.X 5 5 12 mines HIDSELATING TOTAL 18 18		3						10.0		-		-	1	5	11 mines 57 mines
TOTAL 440 394 2 5 29 10 12* 12* 12* * Reserve al orraits, not required. * Ino hit by flak RAID TRACK AND BOMB PLOT NOT AVAILABLE	S. TEOPL		Woll.X	6	6	-	-		-	-		-	-	-	12 mines
TOTAL 440 394 2 5 29 10 18 12" 1.00" 6 25 * Reserve alcorates, not required. *.lue hit by flat.	-	Tab.		16	18	-	-	-	-	-		-			80 mines
Reaerve al viruft, not required. Allo hit by flat.	TOTAL	1		440	394	2	5	29	10	1B +6AC	13*	1.0	8	25 - +	
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MIGHT FLIDET NO. 375

BOHBER COMLAD REPORT OF NIGHT O. M. TICHS, 12/13th. JULY, 1943.

TURIN: Minelaying: Loaflets:

SUBLAY

TURIN

1. 295 Lancasters of 8, 1 and 5 Groups were sent to Turin, where 264 aircraft attacked the city. ...ocurate skynarking by the P.F.P. resulted in an excellent concentration slightly north of the aiming-point, and although the bonbing later drifted into open country, useful damage was caused to industrial targets. 13 aircraft were lost.

Hinelaying

2. 19 Wellingtons, out of a force of 22, laid 36 mines in the Bay of Biasay without loss or demage.

Lehilets

 17 Wellingtons and Whitleys, out of a force of 19, dispersed leaflets over verious towns in northern France. Il returned safely.

Weather Forecast

4. Hidnight frontal positions:- Colu fron Shetland to S.F. Norway to 55 N. 03°E. to 50°N. 05°E. to 47°N. 05°W., then westwards.

Bases :- Cloud breaking. Moderate visibility.

Gérmany: - Cold front very active, with solid cloud to great heights. E. and S. of the front: much layer cloud with a few breaks, dispersing to small amounts in extreme S.

....N. Italy:- Generally, little cloud. "Turin: 5/10ths. or less, mainly at nodium levels. Moderate visibility. Route: cold front overtaken about 472 N cloud in layers with good clear lanes. Risk of thunderstoms over S. France.

TURIN

Plan of attack

5. Route:- Dungences - Cayeux - Lake ...nnecy - TURE: - turn right - 4700.

1.1.1.1.

Hethod: - Zero hour: 0145 hours.

Period of attack: 0145-0201 hours

1. 17 mar.

Route marker flares, (green steady) were to be dropped by 11 specially equipped blind markers over the centre of Lake innecy (4550 N. 0610 B): These were to be backed up by 19 of the "backers-up", but only if they could identify the lake visually. The blind markers were to mark the target area with yellow T.I.s each also releasing one stick of flares (white) at 6-second intervals on the same heading. Visual markers were then to mark the mining-point with red T.I., using the yellow T.I. as a guide only. They were not to drop red T.I. unless ' absolutely certain of the mining-point. Backers-up were to aim their green T.I. (with a 2-second overshoot) at the centre of all visible red T.I., or at the centre of all greens if no reds were in evidence. If neither red not green T.I. were

...../visible, backers-up

Ł 14. 2. ÷1 .sible, backers-up were to ain their green -. I. at the centre of all yellows. Main Porce aircraft, led by the best crews, were to aim at reis if visible, otherwise at greens; they were to ignore yellows. If the target was clouded over, Y-aircraft were to mark the target with sky-markers (red with green stars). Main Force aircraft would then bonb these on a hadding of 132 M. and I. S. 165 n.p.h. On the return journey, yellow route-markers were to be dropped at 4544N. These were-to.bc. supported by 5 of the backers-up. 0305E., by Y-aircraft. 7. Tining:-Pathfinder Porce: Blind-marker illuminators - 11 Lancasters at zero-3. Visual markers - 6 Lancasters to arrive at zero-2, and both ...s soon as certain of the aining-point. Backers-up - 13 Lanc: ters at 1-minute intervals from zero+2 to zerc+14. Main Porce: zero to zero + 16 (best crews first) the second 8. P.F.F. Bonbs Loads :- Blind-harkers: 0.355 7 Lancasters Y - 1 x 4 green flares - 1 yellow T.I. LB., + 5 x 4 white flares + 1 flare red with green 8 stars + 1 x 4,000 H.C. • 4 Lancasters Y - 1 x 4 green flare + 2 yellow T. I. LB. + 5x 4 white flares + 1 flare, red with green stors + 1 x 4,900 H.C. Visual markers: - Salat and the second second 2 Lancasters Y - 2 red T.I. 18., + 2 red T.I. + 1 flare red with green stars + 1 x 4,000 H.C. 2 Lancasters Y - ditto + 1 T.I. yellow L.B. 2 Lancasters Y - ... ditto, with no yellow T.I. or flare, but + 1 x 500 G.P. (L.D.) and the second second Backers-up 8 Lancasters - 1 x 4 green flare + 4 green T.I. (1 LB) > + 4,000 FC. + 1 x 500 G.P. (L.D.) 5 Lancasters - 4 green T.I. (2 LD) + 2 T.I. green + 1 yellow T.I.(LB) + 1 x 4,000 ...C. -And against a com 1 Weather Experienced Bases :- Variable amounts of cloud in N., with soattered showers.' Little 10. cloud in S. and through a Route:-: 4-6/10ths. cloud (tops 8,000!) over Channel, increasing to 10/10ths. (tops 16-18,000', occasionally to 23,000') over Central and S. France, but dispersing ag in over N. Italy. Noderate to heavy clear icing in cloud at 18-20,000'. 13tatic and thunderstorus reported. On return, cloud broke over N. end of Bay of Biscay to 4-6/10 ths., base 2,000'. Wind at 16-19,000': 230-250°/40-45 n.p.h. over S. England, increasing over Central France to 260-2700/ 50-60 n.p.h. Turin: - No cloud. Hoderate visibility. . Hoon two thirds of full. Wind at 17-19,000': 240°/30 n.p.h./Night Photograph 2012

10.55

Statistics.

Night Photographic Statistics

11.	No. of pho	tographs examined		
1 ***	· 1		plotted within 3 nls97)	
		* showing ground detail(" outsice 3 nls	
	2. 1. 1. 1. 1. 1. 1. 1.		unplottcc	
2	er, 11 24		plotted within 3 mls57)	
-88	····· (\$) **.	" fire-tracks. (" outsic 3 pls 1) 80.	5
11.1	1		(unplotter	2

1997 - H

Narrative of ... ttack

12. The attack was opened 3 minutes late by the blind-marker illuminators, whose flares and T.I. were very accruately placed. 4 of these aircraft gerea plotted over the built-up area of Turin, and only one is believed to have been off the target (4 miles E.). Between zero + 4 and zero + 6, 5 salvees of red T.I. were dropped in quick succession by the visual markers, all within 14 miles of the bining point... The first fell 2 wile S.E., but all the others dropped N. of the aiming-point, and it was around these that the attack became centred. The sixth and last salve of red was released at zero + 9. The backing-up was also reasonably accurate, despite the usual tendency to undershoot. Practically all the 131 mircraft which attacked between zero and zero + 15 minutes tends.

13. By zero + 15, the primity marking had finished and, except for a fow eircraft which bonded the embers of the last T.I., the attack soon became scattered in open country N. of the targel. Only 20 of the 126 aircraft attacking between zero:+ 16 and zero + 40 are establied to have bonded within 3 miles of the aiming-point. The evidence suggest that the energy used durny T.I. to good effect during this period.

- 23

Day "econnaissance

A Second Land

14. Reconnaissance photographs, although partly obscured by snoke and not covering the new Fiat factory and ereas in the N. and S. of the town, revealed heavy industrial damage. The weight of the attack all on the N. and N.E., especially in the immediate vicinity of both banks of the river Dora. Numerous factories were affected, including both the Fiat steel works on the N. and S. sides of the river, the state arsenal, Soc. Conductori Blocirici d'Affini (electric cables), Filatura di Torino (cotton-spinning) and Pontrere Ettore (timber). ... tran depot, a gasworks, a military stores dump and several unidentified factories were also severely damaged. Residential property encaped lightly.

.ltern.tive Targets

15. 7 aircraft bombed alternative targets, in the areas of Dieppe, Montohanin, Dunkirk, Lae Bourget, Les Sables, Ile d'Eleron and Hont Noir.

- 25

Special Equipment

16. <u>H2S:-</u>. 11 Y-aircraft were despatched as blind-markers, and 10 attacked, but one of these released no markers for technical reasons. Of the remaining 9 aircraft, only 4 used H2S to bomb, and 3 of these obtained visual checks. The other 6 bombed visually, although in only one instance was the H2S set unserviceable. The standard of accuracy was high. 4 other aircraft carried H2S as a navigational aid. ..ll were detailed as visual markers, and did not use their sets for bombing, although all were reported to be working in the target are ..

17. <u>GRE</u> The Southern Chain operated on the Carolina frequency iroughout the operation. Everage ranges of 230 and 310 miles were obtained on the boutward and honeward routes respectively, the 3 greatest ranges - 575 miles, 500 miles and 485 miles - all being recorded on the honeward route. Jacking on the way out was particularly heavy near Paris, and spurious pulses were again reported S, of the Brest peninsula on the return. S. France was relatively free from janning, and

...../in many cases fixes

in many cases fixes were only limited by lack of chart cover. · Defences

4.

13. Plak and Searchlights: Flak opposition was never intense. Some activi was reported from Poix, Aniens and Le Creuset on the outserd journey, and defence at several points on the Atlantic Coast won. into action against our returning boobers. Over Turin itself, heavy and light flak were both put'u, in moderate strength, but with little accuracy, and there appeared to be little co-operation with the 50 scarchlights that were exposed. The defences dvindled as the attack progressed. 11 aircraft were hit by flak, none seriously.

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12 . A.T.

1. C. S. M.

Fighters: Intercepted wireless traffic referred to only 2 patrols in the 19. areas of our operations. No pursuits were overheard. Our crews reported a to of 9 interceptions, including 2 attacks and 5 other conducts. Cne Ju.88 was she down by a Loncaster, and another fighter was canaged. Hone of our returning aircraft was damaged by fighter. Nº 417 - 1 - 16.

Casualites .

•2211-24 Sec.

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- A.		<u>, 8</u> ,				fighter 0	
	1.0	÷		1	(0)	incendiary boobs 3) ·
** 7 Tr.		a 19			(a)	other causes) • •:.
1	42 .	in a const		all the second		· · · · ·	34 2

There is little evidence of the cause or location of any of our losses. 2 bombers were probably destroyed by fighters off the Brest peninsula, and a third by flak in the target area. 2 others may also have been lost over Turin and 2 more at Cayeux and Mont St. Michel, while foreign brockedsts reported 2 British aircraft to have crashed in jwitzerland. Icing, which was severe on parts of the route, may have been responsible for some of the 10 unspecified lorres. ate in the second

One Lancaster diashed over England, with the loss of all its orew.

MINEL YDIG

22 Wellingtons were despatched by 4 and 6 Groups to lay mines off St. 22. Nazaire, Brest and Lorient. 19 reached their targets, laying 36 mines. Visibility was generally good, with 4-6/10ths. cloud (bese 2-3,000', tops 5-6,000), decreasing southwards, but one aircraft was un.blc to identify its target at Brest, and had to return carly: '2 other sortics were abortive for technical reasons. Flak was encountered from the usual points, but no aircraft was hit, and the only combat with an energy fighter caused no damage. All our aircraft returned safely.

LEAFLETS

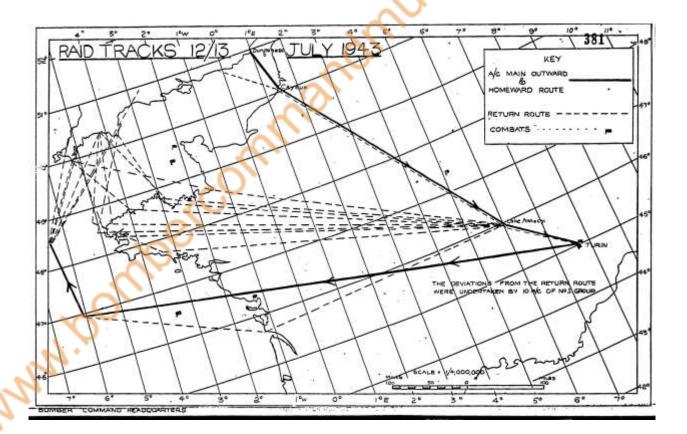
13.

17 Whitleys and Wellingtons, out of a force of 19 despatched by 93 Grou disseminated leaflets over various towns in N. Prance. 2 airoraft failed because of navigational errors. 2 interceptions were attempted, but in each case our aircraft took successful evasive action. No casualties were sustained

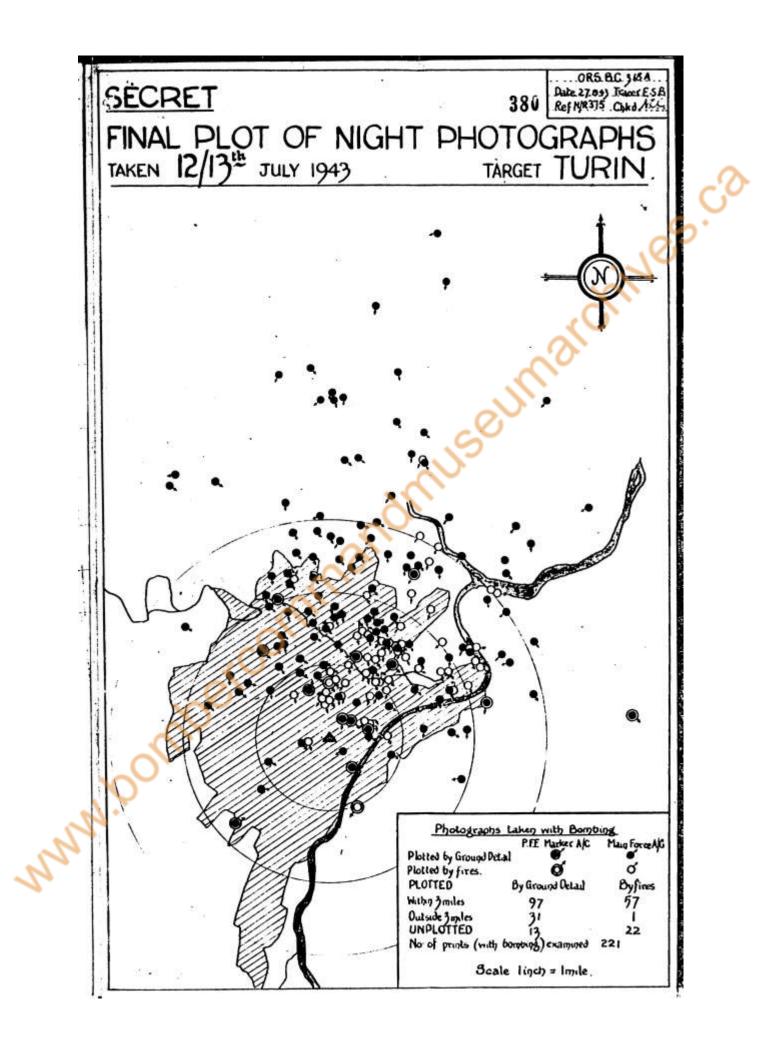
MIN/JT. BC/S. 26342/1/0283, 29tn. September, 1943.

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HIDNEL.YEAG	4	Well.X	8	7	-	-	1	-	-	-	-	1	-	13 mines
LORISIT	4	Woll.X	8	7	-	-	1	-			-	-	-	13 mines
EXEST	6	Woll.X	6	5	-	-	1	-	-	-	-	-	-	10 m1mos
HINTL.YING	TOTAL		22	19	-		3	-	-	-	-	1	1.1	36 mines
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LIR/S	93	Well.III Well.X	1	1	2	1			-	-	-	-	1	
ARGENTAN	93	Well.X	2	1 1	-	-	1 1	-	-	-	-	-	-	
ST. QUENTIN	93	Well-X	2	2	-	-	-	-	-	•	-	-	-	
RELUVAIS	93	Well.Ic	2	2	-	-		-	-	-	-	-	2	
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BONDER CON	LIND REPORT ON NIGH	T OPER TIONS, 13	/14 th. JULY, 1943	L
ACHEN	ALCHEN: Cologne:			<u> </u>
))3 aircraft (7-10/10ths. lo that nearly al mall built-up factoriés, mos the industrial	If the town of anch out of a total force w cloud, but the OB 1 of the Main Force area. Very heavy tly engaged in engi importance of asch which were shot do	t of 374). The OB markers dropp aircraft bonbed cange was caus neering and text en. Ye lost 20	target was cover ed their T.I. so within the compa- ed to the numerou- ile nanufacture,	ed with accurately ratively s snall which constitute
ologne			· · · · ·	
shortly before	itoes were detailed the main attack on because of the failu	inchen was due	to commence; but	
leaflets	n 1 ()	•••	<u> </u>	2.14
tomis in North	ngtons, out of a fo ern Francc. The e ged by flak, but al	ighth cane down	in the Channel of	ter being
. Midnigh	t frontal positions	- Cold from 55	on. 22°E. to 50°N	. 18°E. to /lps.
Bases:- base 2-3,000',	Pit all night, wi and moderate to go	th small anounts		
southwards to especially over tops 6-7,000'; decreasing to Scrlin; sinil to 5-9/10ths.	- Residual thunde well broken cloud. n filps. Jachen: nisk of 7-9/10ths scall amounts over lar conditions outwa low and medium clou ight to 15,000' or m	Fersistent the 2-5/10ths. stru . at times. 4- inland route. rds, but cloud a c; less than 4/1	núerstorus in fro to-curulus, base 8/10ths. over Dut Little cloud on r mount increasing 0ths. over target	ontal sone, 2,500-3,000', tch coast, return. towards target
France: Stattered show			erate to good vist	ibility.
Winds:	Bases to Dutch cos	st. To Ruhr.	Ruhr to Calais.	To Bases.
750mb. 500mb. 300 mb.		270°/40 mph. 270°/50 mph. 270°/75 mph.	280°/60 uph.	300°/30-35 : ph. 300°/60 mph. 320°/90-100 mph.
		;• ;· ;		
				0048007007008888

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ALCHEN
Plan of Attack
5. Route: Noordwijk - 5100N. 0616 ECHE2 - 5020N. 0524E Cayeux - Beachy Head
6. Taotics:s a preliminary warmin, yellow ground-marker T.I. were to be dropped by 10 Y-type Halifaxes at position 'A' (5100N. 05162). 6 OBOE Hesquitoes were to mark the exact siming-point with red T.I. 19 backers-up were to maintain this marking with green T.I. Main Force circraft were to aim their bonbs at reds if visible, otherwise at the estimated centre of the pattern of green. If no T.I. could be seen, circraft were to bonb on E.T.M. Yellow route-marker T.I. were to be dropped by 5 Y-type Halifaxes at position 'B'-11'- (5017N. 0430B) on the way home, as an aid to mavigation.
7. Tining: Hosquitoes Backers-up (Halifaxes) Hain Force
1 at zero - 3 5 each minute from zero +2-zero+6 " zero + 1 4 " " " zero +8 -zero+11 zero " zero + 7 4 " " " zero +13 -zcro+16 to " zero + 12 4 " " " zero+17 - zero+21 zero + 26 " zero + 17 2 " " " zero+23 - zero+24 " zero + 22 (+ 2 reserves).
3 training Hosquitoes at zero + 27, zero + 32, and zero + 37.
C. Eccb Loads (P.F.T.)
Mosquitoes: - (7 - (2 T.I. red LE. + 2 T.I. red (delay 21 minutes).
(1 - (4 T. I. red (2 L. 5.)) Ecckers-up:- (57 -(3 T.I. green L.F. + 2 T.I. yellow L.F. + 1 x 2,000 H.C.
(5Y - (5 T.I. green (2 L.B.) + 1 T.I. ycllow L.B. + 1 x 2,000 H.C. + 4 x 1000 G.P.)
(9 - (5 T.I. green (2 L.B.) + 1 x 2000 H.C. + 4 x 1000 G.P.)
Sorties
9. No. of aircraft despatched
Weather Experienced
10. Bases: - Variable amounts of cloud, decreasing during the night. Moder: to good visibility.
Route:- 6-10/10ths. cloud, tops 8-10,000'. Temporary clearances over Dutch coast on return. Winds:- at 14,000', 290°/45 mph. at 21,00', 290°/50 mph. at 28,00', 290°/90 mph.
_achen: 7-10/10ths. cloud, tops 7-9,000!. Three-quarters moon. Good visibility above cloud. Winds: at 15,000', 300°/50 mph. at 21,000', 280°/60 mph. at 28,000', 300°/70 mph.
/Right Photographic Statistics.

int Photographic Statistics

3.

1. Night photographs supplie no evidence of the success of this raid, owing to cloud conditions over the target.

cerrative of attac':

2. The P.P.P. timing was excellent. The Masquitors attacked at zero - 4, ero, zero + 6, zero + 10, zero + 16 and zero + 20. If T.I. were therefore risible throughout the raid. The Main Porce bunked from zero to zero + 26, thus conforming to their planned timetable. The attack built up with unusual peed, 76 aircraft benking in the first 4 minutes - 69 op red T.I. The advantage if one Mosquito attacking before zero was an e apparent. Altogether, 80% of the attacking force claimed to have bonked on red T.I. - a most satisfactory figure in view of the cloud conditions.

ay Reconnaissance

4. Anchen is an important communications centre, in dennge to railway roperty was serious. Station buildings, shear, stores and rolling stock were estroyed and damaged, and tracks were discutted by direct hits. Banks, the police headquarters and various state and runicipal buildings were among the vast amber of buildings wholly or virtually dest oyed. Houghly half of the total built-up area of the town was devestiged, and 16,000 housing units were rendered minhabitable.

Special Equipment

5. <u>OBOR</u> 6 GBCE Mosquitous were detailed to drop markers, and 2 more to not as reserves. All the original 6 were successful, and the planned timing was plosely adhered to. The accuracy of the P.F.F. probably surpassed that achieved in any provious raid.

16. 3 OBOE freshmen were despatched to tack ... ichen at the conclusion of the min effort. 2 borbed on OBOE and the third visually, since its signals were intermittent.

17. H2S 22 aircraft carried H2S as a navigational aid. 14 of the 20 which attacked reported that their sets were serviceable in the target area, and 4 used it to check their position at boobing. __ll returned safely.

18. GES The Eastern Chain operated on the Wyoning frequency throughout, and in the Zanesville frequency from 0100 to 0200 hours. The Southern Chain operated in the Carolina frequency. The average ranges were 230 and 210 miles on the sutward and honeward routes respectively. 14 aircraft received fixes at a distance of pore than 300 miles. Interforence over Holland was of the usual type, but fourious pulses were again reported over N. France. The main difficulty was the weakness of the 'B' signal of the Eastern Chain, particularly on the roturn route. The Southern Chain was not used, as no signal could be seen over enery terratory.

efences

19. <u>Flak and Scarchlights:</u> Since the reute crossed no particularly strong Found defences, it is not surprising that very little flak activity was reported. Some was encountered from the Scholt estuary on the outward route, and also over/N. France during N. France during the return, but there appears to have been no sustained eppeart machen itself was poorly defended for a target so near the juhr, even allowing for the fact that cloud conditions hanpered the defenders, especially in their use of searchlights. What flak there was seens to have been almost entirely barrage. 21 of our aircraft sustained damage, 2 so seriously that they crashed on return and were destroyed.

20. <u>Pighters</u>: ...otivity in 15 areas was overheard on energy vireless traffic including 15 pursuits and 8 victory claims. Gilze and Florennes were the principal areas of operation. Cur crews reported 67 interceptions, including 17 attacks and 25 other combats. The distribution of interceptions along the route was: 33%, outbound, 21% over the target and 46% homebound. 2 aircraft reported damage by fighter fire.

Casualties

.21)	1-20207
. 2)	. 28
• 3)	
•	2

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An analysis of crews' observations suggests that at least one of our losses was due to flak and 12 to fighters. The flak loss occurred on the outward journey over Rotterdan. Fighter losses were: 4 outbound, at Noordwijk (2), Hertogenbosch and Eindheven: 2 over the target and 6 hourbound at Florennes (5) and Arras. Bonbers were also seen falling at Venlo and Abbeville, but in neither case was there any clear indication of the cause of loss. Grews reports the destruction of 5 eneny aircraft, 2 of the centrate being seen by other bonbers 2 other fighters were clained as damaged.

CCLOCEE

22. 2 P.F.F. Mosquitoes were detailed to crop green narmors on Cologne as a diversion shortly before the main operation was due to begin on whether. Both Oboe sets failed, however, and neither since of tattacked. The new third channel was being used for the first time on operations. Both Mosquitoes returned undamaged.

LE FLETS

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14 M. 100 St.

2003 E.S. X.

23. 8 Wellingtons were despatched by 92 Group to drop leaflets on the towns of Rennes, Etanpes, Chartres, Droux and Versailles. 7 reached their targets, the eighth jettisoning its bundles wild after being badly hit by flak. This of aircraft case down in the Channel on return, but all the crew were rescued. The widence, only one following being reported.

DC/3.26342/1/ORS3, 8th. October, 1943.

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1 1axe. III 1 -	Jane. III 1 -
3 5 Ustr-III 3 3 - - - - 1 123 1 1 4 11 4 Bal. Lik 10 10 10 2 2 1 1 - 2 2 1 1 1 2 2 1 1 - 1 2 1 1 1 1 2 1 1 1 1 1 2 1	3 5 thr.rif 3 3 - - - - 1 123 1 1.0 4 11 4 Hal.Liky 107 13 - - 2 2 13 - - 2 2 1 - - 2 2 1 - - 2 2 1 - - 2 2 1
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Image: Solution 8 7 1 - - - - 1 TOT: J. 384 340 1 5 18 20 32+ 1,00 312+ 17 51 X RESERVE U/C NOT INSTRUCT RAID TRACK AND BOMB PLOT NOT AVAILABLE	L2_27127 TOT.1 8 7 1 - - - - - 1 1001.1 384 340 1 5 18 20 324 10.0 174 17 51 x NOT INS JULICIAL
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	bomber

MIGHT R JD REPORT NO. 377

COPY NO. 16

BONDER CONJUND REPORT ON NIGHT OPER. TIONS, 14/15th. JULY, 1943.

EERLIN

SUDCLRY

1. 8 P.F.F. Mosquitoes were despatched on a harassing raid against Berlin. 6 attacked the capital from above 10/10ths. choud. One aircraft returned early for technical reasons; the eighth crashed in the sea off the Norfolk coast. There is no evidence as to the cause of this loss.

Meteorological Forecast

2. Hidnight frontal positions: (1) occlusion from Hebrides to $55^{\circ}N$. $02\frac{10}{2}$ W. becoming (2) warm to York to London and southwards and (3) cold to N.W. Wales, then south-westwards. (4) deepening depression moving N.E. from .tlantic, probably centred off N.W. Ireland.

Eases: Cloud to great heights with rain near ward front. 10/10ths, base telew 1,000', in warm sector.

Germany: Much medium cloud in N.M. Well broken medium and high cloud in centre. Fine weather in S. Berlin: up to 5/10ths. strato-cumulus and altocumulus, good visibility apart from snoke.

France: Much low cloud except in S.

Sorties

3.	No.	of	aircraft despatched	8
	75	n	" reporting attack on primary area	
	**	n	abortive sorties (technical defect)	
		18	aircraft missing	0
	Res	ult	unknown (a/c crashed on return	1

Weather Experienced

4. Berlin: 10/10ths. cloud, tops 28,000'. Very good visibility above.

Three-quarters noon.

Enery Defences

5. Energy night fighters were operating in areas along the route, but no attempts at interceptions were heard and no claims were made. Moderate heavy flak was reported over Berlin, inaccurately predicted through cloud which the searchlights were unable to penetrate.

Casualties

6. A message was received from one returning aircraft that it was on fire over the North Sca and that the crew were baling cut.ir/Scc. ...cscue discovered the wreck floating 30 miles off Yarmouth, but nothing was seen of the crew. There is no evidence of the cause of the cresh.

114/JT. BC/S. 26342/4/ORS3, 24th. September, 1943.

Z.RG3T	GROUP	TYPE	SORTIES	L/C REPORTING	NOT OVER. EVENY	HISSDIG		M.CE FIGHTER	NOT EN.	DITERCEPTION	Tons of Bombs.
MERITIN	8 - PTF	Hosq. IV	8	6	1 + 1 ^M	-	-		1E	•	P. 4.7
											Peon Primary Mecarried by
	1	1		•					L	-	nissing a/d.
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	205	no	s _c	on							
N.	205	nb	s,c	onn							
www.	201	np	25C	onn							
man	505	no	2 S	om							
man	205	no	2 S	om							
man	505	no	2 S	onn							
man	505	no	2 S	onn							

MIGHT R.ID REPORT NO. 378

BOIBER CONSLID REFORT ON NIGHT OPERATIONS - 15/16th. JULY, 1943.

MONTBELLARD: ITALL'N TRANSFORMER STATIONS: Munich:

ii.

SURARY

1.17 3

TERLLARD

A force of 165 Halifaxes set out to attack the Peugeot Works at Hontbeliard target was ground-marked and illuminated by Y-type aircraft and visual markers rery concentrated attack developed round the first red T.I's, which unfortunately ershot the works by about 700 yards, so that the damage to the works was far as than the accurate aiming of the main force deserved. 5 aircraft failed to purn.

LLN TRANSFORMER ST.TIONS

4 Italian transformer stations were the targets for 24 Iancasters, 6 being affed to attack each from low level. Bologna, Arquata Scrivia and San Polo has were all damaged, but Reggio, which was attacked by only 2 aircraft, showed damage on recommaissance photographs. 2 aircraft were lost and the remainder red in North Africa.

rich

6 Mosquitoes were despatched by 8 Group to attack Munich. 2 completed the ex and the others returned early. No damage was sustained by the aircraft.

. . .

corological Forecast

. * .

Estimated midnight position of fronts: (1) occluded $62^{\circ}N$. $0^{\circ} - 61^{\circ}N$. $3\frac{1}{2}^{\circ}E$. tecoming (2) warm to 55°N. 8°E. - Enden - S.I. Holland (becoming weak over the tinent), and (3) cold from $61^{\circ}N$. $3\frac{1}{2}^{\circ}E$. - Lincolnshire - Start Point and theestwards. At 1800 hours G.M.T. a cold front extends from N. of Yarmouth rdon - Plynouth, with a wave over S.W. England, which will cause the front to almost stationary over the South Coast and Channel.

Home bases: variable amounts of cumulus and strato-cumulus, base 1,500 ft., th patches below, in local showers in N. Good visibility. Bases fit for turn.

N. France: well broken medium cloud.

and the second second

Low Countries and coastal area of N. Germany; much cloud at various levels. and over Germany cloud will decrease southwards, becoming broken at mediumthe in Ruhr-Hanover area and small encounts in middle Rhine-Leipzig area; S. of . weather will be fine over Germany.

No. Italy and S. France: fine.

Montbeliard and Munich: cloudless, good visibility.

Route: active cold front in Channel, ith medium cloud extending from 510N 49N. in a belt about 50 miles wide. Cloud is expected to be almost continuous tically from 1,000 feet to about 23,000 feet, with serious risk of icing above 400 feet. From the enemy coast onwards there will be little or no cloud and a 190N. southwards, almost clear skies and good visibility. On the return the at will be met 50-70 miles further S.; and cloud over England will be much more then.

..../Winds.

. 25

	· · · · · · · · · · · · · · · · · · ·	2.	1987 —	22		
		750mb.	500mb.	2 	350ab.	
	Bases for take-off: Channel-Orleans: Orleans-Montbeliard: Bases for return:	270°/30-40m.p.h. 250°/30 m.p.h. 240°/20 r.p.h. 270°/30 n.p.h.	250°/60 n.p.h. 250°/40 n.p.h. 260°/40 n.p.h. 260°/40 n.p.h.	- 270º/40	50 n.p.h. 11.	
		HONTERL	LRD	h	beh	C
	Plan of Attack		÷ -			
	5. <u>Route</u> 8 Gro O6 ⁰ 02'E - TARGET - tu Solsey Dill.				abourg - vi)
17.	4 Gr	oup: as above, oni	tting 47°50'N. 03	°35'8.		
	at 47°16'n. 06°02'E. T.1's, then to drop a second intervals. If visual markers were a bombs of these aircraf T.1's on a second run T.1's, using yellow T the aiming point was T.1's at the estimated estimated centre of a yellow T.1's. Main at the estimated cent bombs were to brought point visually. Cn dropped by 7 Halifaxe	stick of flares 6 fillumination was a lready dropping T.I ft were not to be do . 6 visual marker. I's as a guide. positively identified a centre of all red ll green T.I's, or, force aircraft were re of all the green back. Fo attempt the return flight,	e to mark the tar seconds later on already considered 's, the flores we ropped blindly, h s were to mark th They were not to ed. 8 backers-to as a last resort to aim at rea T. T.I's. If no 7 was to be mude to route markers (ye	yet blindly the same her d sufficient re to be with ub aimed at the aiming-po- arop red T.: p were to at one were vision that the cent is if vision . I's could be to identify	with yello ¹² ading, at 6 t, and if theld. H.1 red or gree int with red I's unless in green ible, at the atre of all ble, othervi be identifie the aiming-	
	7. Banb Loads	<u>_</u>		20.0		
	Blind-markers: 9 Y-H	+ 2 x 50	Contraction and the second second second second second			
	Visual-markers: 6 Y-H	+ 3 x 1,	yellow LE. + 2 T. 000 H.C. + 2 x 50		+ 2 T.I's r	
к <u>с</u>	Backers-up: 8 Hal	ifaxes: 1 T.I. g + 3 x 50	rcen hB. + 2 T. I. 0)C.	's green +	3 x 1,000 XG	
		roraft incondiaries	; remainder H.E.	only.	. <i>1</i> .4	
	0.	o hour: 0150 hours		tack: 0146-0	200 hours.	
*	Hain force: 1st. 2nd.	alifaxes at $(Z - 4)$ alifaxes at $(Z - 4)$ ifaxes at $(Z + 1) - 4$ Wave: $(Z) - (Z + 5)$ Wave: $(Z + 5) - (2)$ Wave: $(Z + 7) - (2)$	- (Z) (Z + 8) at 1 min ()	nte interva	18.	
n	9. <u>Tactics</u> in consistent with the d crews were to be used civilian casualties. Crews were also to be Swiss neutrality.	to ensure maximum The need for extr	danage to the wo	w 4,000 fee rks without bombing was	t. Selected avoidable to be stress	
•	Sorties	1997 - B		200		
	10. No. of aircraf """" aborti "aborti "aircraf	reporting attack or	alternative area alternative area al & manipulativ	defects)	152(92.2)	
					second and second second second	

either Experienced .

Hone bases: frontal cloud with rain and patches of cloud below 1,000 ft. ver S. England and Essex at dusk, slowly drifted south. Remainder of area, mriable bloud, decreasing during the night to small amounts. Local fog and ist developed late in night over Lincolnshire, S. Hidlands, Essex and S. England, chind front. And the second . .

....

Route: 10/10ths. frontal cloud over S. England and N. English Channel All and the second s to target.

Target: small patches of thin cloud at medium lovels. Moderate risibility. Winds: 8,000 feet / 240° /32 n.p.h. Moon: up all night, 85% of ·u11. 47.0

Sight Photographia Statistics.

		10		o		Coulding Cars	nincq
			1.12	sho	ving g	ground detail	(lotted within 3 mls133)
		í			E	St. 1.	(" outside 3 mls 12).14
<u>.</u>		2.65				1. C.	(unplotted
	. "	•	4	u	fire	tracks	(plotted within 3 nls 1)

"..." aircraft estimated from the photographic cvicence to

.....

32

Farmitve of Attack . . ** * .

13. The target was almost continuously carked by red T.I's dropped by visual markers, but the first red T.I's overshot the cining-point by several hundred pards, and the other markers appear to have higed at these T.I's. . Almost the thole of the main force and the backers-up attacked the same erea, with the result that most of the bombs fell N. ?. of the Prugeot Torks, which oover only 1,100 yards by 600 yards. The concentration of bombing was very good, but the unfortunate misplacing of the red T.I's resulted in very little damage to the works. 12 aircraft bombed an aircraft which crashed about 40 miles from the target, mistaking the fire for T.I's. 311

5

Daylight Reconnaissance

14. Reconnaissance photographs revealed that 7 buildings of the Peugeot Works vere severely damaged and 6 others affected, nainly by H.T. These included the swaging workshop, the foundry for steel castings, a large machine shop and 3 workshops. In the village of Sochaux, a magneto factory, a small watch and clow: factory and an unidientified works were severely damaged. In addition about 90 houses were destroyed or damaged. ... inost the whole of the demage outside the works was to the N.E. 1. F. E. F. 2032 - 21

1.1

Accuracy of Bonbing

15. _ A very complete bombfall plot was received and analysed. It showed that the main concentration of bombs was centre' shout a point 930 yards N.E. of the pining-point, with an average error about: ite P.I. of some 550 yards. Most of the displacement was due to a 690 yard error in marking, but there was in addition a systematic overahoot with respect to the arkors, and it was estimated that only 1.7% of the conbs dropped fell on the works. This compares unfavourally with the result achieved at Priodrichsheiren, where 9.0, of the benbs reached the target, which was only about one quarter of the size of the Pougeot works. ۰.

Alternative Targets

· · · ·

2000

16: 3 aircraft reported attacking a file near Besancen; photographic evidence indicated that this was in fact a crashed aircraft, and that 9 other bobers, which reported attacking the primary target, also released their loads in the same place. .

Special Equipment

17. <u>H28</u> 9 Y-type aircraft were despatched to drop flares and mark the target blindly. All reported attacking with bombs, but only 2 dropped flares and markers, while 2 more dropped flares and bombs, but no markers, as red T.I were already visible. H2S was unserviceable in 3 aircraft and 2 others had difficulty in distinguishing the target. 'Except for one aircraft, all relied on visual identification,

18. A further 15 aircraft carried H2S as a novigational aid. 9 of these reached the target with serviceable sets, and one used it to check his position at bombing.

19. <u>GER</u> The Southern Chain operated on the Carolina frequency throughout the raid. The average ranges on the outward and homeword routes were 195 and 205 miles, the maximum being 358 miles. Janning was reported from the French coast onwards, and at the average ranges given this swamped the GER signals. The ranges were poor for this route, and the jamning strength appeared to have increased.

Enemy Defences

20. <u>Plak and Searchlights</u> Very little ground opposition was encountered this raid. Light flak was reported from Cabourg and Caon, and heavy flak from isolated points on the French coast. Over Hontbeliard inaccurate flak, both heavy and light, was reported, diminishing almost to nil at the end of the atta There were no reports of searchlights. None of the returning aircraft was damaged by flak; however, this attack was made at low level, so that this fact does not explude the possibility that some of the missing aircraft may have bee destroyed by light flak.

21. <u>Pighters</u> Intercepted wireless traffic suggested that there was very little fighter activity. Details of only one patrol were heard; this was unsuccessful, but there were 2 indirect references to fighter victories. 2 attacks, 3 other combats, and 4 approaches were reported. At least 6 of these were outbound and 2 over the target. 2 circuaft were damaged by fighters.

Casualties

22.	No.	of	airci	raft missi	ng	. 5 ().0
		"	Ś	damaged	(flak	. 3 (1.8

Observations of aircraft shot down suggest that boabers were lost to fighters at Auxerro and Chatillon-sur-Seine, and that 2 other aircraft were destroyed at Besanpon and Orleans, the cause of loss being unknown. It is possible that in the case of the aircraft shot down at Chatillon-sur-Seine, the fighter was also destroyed. There were no observations of aircraft shot down by light flak. One aircraft crashed on landing owing to shortage of fuel.

ITALIA: TRANSPOR ER STATIONS Sorties R. B. A. P. 23. No. of aircraft despatched......6 6 6 6 6 6 """ reporting attack on primary area....2 6 6 6 6 6 6 """ reporting attack on primary area....2 0 1 0 6 6 0 """ abortive area....2 0 0 1 0 0 0 0 """ abortive sortics......0 0 0 0 0 0 0 0 0 0 R = Reggio (Enilia). B = Bologna. A = arquata Sorivia. P = San Polo D'Enza. D'Enza.

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5

Weather Experienced

North Italy: No cloud, ground haze. . Noon above the horizon, 85% of full. at San Polo D'Enza the, moon was obsoured by hills. Narrative of Atteok

25. 6 Lancasters of 5 Group were despatched to each of the 4 transformer stations, Reggio (Enilia), Bologna, arquata Sorivia, and San Polo D'Enza. 19 aircraft attacked the primary targets, from low level (800-2,700 feet), 3 bombed alternative targets, and 2 were lost. Except at Reggio, which was attacked by only 2 airoraft, the bombing was controlled by the leader. Damage at all 3 targets showed that the method was successful, but greater accuracy might have been achieved had there been no ground haze. In addition to damage shown on reconnaissance photographe, an amunition train was set on fire near Arquata Sorivia transformer station. Machine-guns were used on the transformer stations and on flak positions.

Daylight Reconnaissance

Reggio (Emilia) Neither damage to the transformer station, nor craters in the vioinity were seen on the reconnissance photographs.

27. <u>Bologra</u> A possible hit was scored between 2 sets of open-air switch gear at the E. end of the transformer station, and discolouration of the ground suggested that oil had leaked from one of them. another probable hit was seen among pylons and overhead lines at the W. end of the station, although no damage mas visible. Apart from this, 4 buildings of a factory on the E. bank of the River Reno were demolished, and one or 2 houses damaged. About 30 craters were seen in a nearby field.

28. Arguata Scrivia The roof of the building housing the 130 K.V. apparatus and transformers was severely damaged, and a shed was destroyed. 2 craters were ilso seen within the perimeter of the transformer station. Hits were scored on a nearby rail-track and en a road, and 9 other craters were visible.

28. San Polo D'Enza At least one, probably 2 craters were seen near the wilding containing a number of frequency changers; the whole of the S.E. side of the roof was damaged by blast and the contral part of the roof had partially collapsed. On the N.E. of the frequency changer house there was a large patch of what appeared to be oil, the broadest part of the patch surrounded one of the ais transformers. It is possible that this may have been due to bomb-splinters enetrating the transformer. A pylon S.E. of the frequency changer house was ying on the ground, and a nearby railway was marked by blast from 2 bomb bursts. bout 40 oraters were visible to the E. and N.Z. of the works.

lternative Targets .

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1

2 aircraft were unable to locate their target, and one engine of another ailed. Genoa was attacked by 2 of these, while the third bombed an unidentified rshalling yard in N. Italy. May Defences

(王) (古)

-92 - 93 L M 25 (2)

Plak and Searchlights. The defences en route and over N. Italy were "gligible; flak was active at arguata Scrivia and Bologna, but the guns were ilenced by fire from the attacking aircraft. 3 aircraft at arguata Scrivia ustained minor damage.

Pighters Several encuy aircraft were seen over Italy, but these did not proach the bombers.

...../Casualties.

	Casualties
: ;.	33. No. of aircraft missing
×.	Nothing is known of the fate of the 2 missing aircraft. 2 Lancaster were damaged by bomb splinters and another was destroyed when it overshot, on landing at Blids Airfield.
'nn .'	
	<u>Bunich</u>

34. 6 Mosquitões were despatched to attack Munich and 2 completed the task, bombing on E.T... from the unior Sec. 3 returned carly owing to technical defects and one owing to severe icing. No opposition was encountered, and all returned safely.

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24 1 Ceres

185.

HIO/JT.

b. S. 26342/2/OHS.

5th. Cotober, 1943.

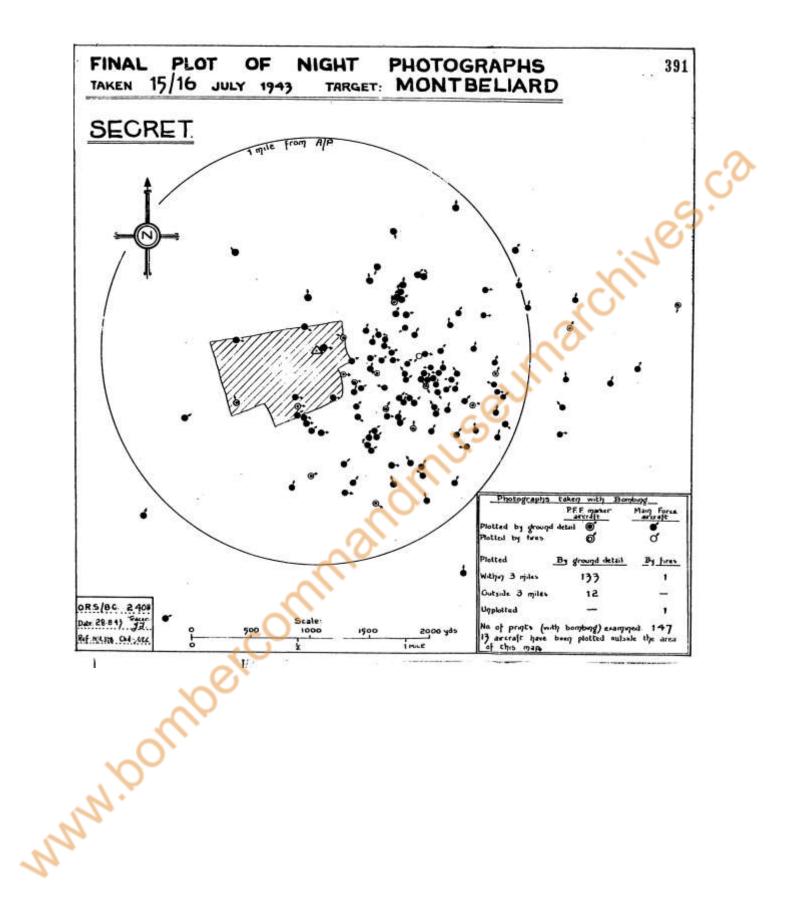
4

43

1100

MONTHUR, LAND. IT. JULY: 1563 AC RE ORTING ABORTITE SORTIES DYTERCEPTICIS DARGE RESULTS TARGET GROUP TIPE SORTLES ATTACK ON MISSING OVER NOT GUER FLAK FIGHTER NOT ATTACK NOT ATTA AREA B. T. E.T. R/A HD TTACK H. E. Inc. Ð 353.6 24.6 MONTRELLARD Hal.II 2 -A. M. PWP AV Hal. 1 18 12.5 19 1+1,0 2 Hal-DHY 8 36 ---2 -----36 MAIN PORCE Hal-IBV 102 94 2 2 1 3 --18 -6 4 Hal.Td 32 1 165 152 3 2 5 1+1.0 13 2 7 MINTERLLAD TOLL 3 4 5 6 2 2 -2 --. -REGGIO Lanc.III -2 -6.0 . 6 6 -. . . --1E -5 Lanc. III BOLOCHA 0. 3 RULTA Lanc.III 6 5 1 ----1---15.0 3 3.1 ·... 1 0.2 Lanc.III S. POLO D'ENZ. 5 6 6 --. --. --2+ 1B TT.LL.N POWER ST.. TIONS TOTAL 24 19 + 3 + + 2 3 ----p. 6 -1 --1.6 -3 -2 MILTICH 8 Mosq.IV 2+ 1B+ 1E 7 2 195 176 6 4 5 7 3 1+1.0 TOTAL

RAID TRACK NOT AVAILABLE



OST SECRET

NIGHT RAID REPORT NO. 379: COPY NO.

DUBER CONSULAD REPORT ON NIGHT OPERATIONS - 16/17th JULY, 1943.

ITALIAN TRANSFORMER STATIONS : Munich : Leaflets.

SUMMARY.

ITALIAN TRANSFORMER STATIONS.

Cislago and Brugherio Transformer Stations were the targets for 18 1. Lancasters. 7 of the 9 Lancasters on Cislago made a successful attack, but haze over Brugherio caused the leader to order the remainder of his force to attack Reggio (Emilia). Cislago was severely damaged, but no damage was visible either at Brugherio or Reggio. One aircraft was missing, and the remainder landed in North Africa.

Munich .

6 Mosquitoes carried out a successful horassing roid on Munich, all 2. returning undamoged.

Leaflets

. 3. Leaflets were scattered over Northurn France by 7 Wellingtons, none of which was damaged. 3

Motoorological Forecast

Estimated midnight position of fronts (1) occluded 639N. 12°E. - 60°N. 17 E. - 572 N. 17 E. - becoming (2) cold to Stettin-Hanover - Cologne - Paris -Nontes; (3) warm front approaching from W., probably well into Ireland by midnight.

Home Bases :- visibility mainly good at take-off, and not less than 2 miles up to dawn apart from local smoke troubles in 1 and 5 Groups, and a slight risk of low-lying mist at down in Norfolk and S. Lincolnshire.

France :- small amounts of cloud in N.

Gurmany :- broken strato-cumulus N. of front. Local thunderstorms in central Germany, S. of cold front, throughout the night. Scoll amounts of cloud in S.E.

Italy: small amounts of cloud in N.

Munich: visibility good. Ruhr: ground probably invisible from 28,000 feet owing to cloui.

Route to and from hunich and Ruhr: small amounts of cloud for first 150-200 miles then a belt of multi-layered cloud generally bolow 25,000 foot, with most of the tops to 20,000 feet, with some cirrus above. The next 100 miles, including Munich, mainly clear of cloud apart from woll broken thin acdium cloud and cirrus.

Winds:

Bases to Strasbourg: Strasbourg to Munich: Strasbourg to Dijon: Dijon to Genoa:

· · · · · ·

200 - 1915 290°/30 - 35 m.p.h. 270°/25 - 30 m.p.h. 260°/25 m.p.h. 260°/10 - 15 m.p.h.

500 mb.

290°/30 - 35 m.p.h. 290°/40 - 45 m.p.h. 290°/40 m.p.h. 290°/40 m.p.h. 270°/20 - 25 m.p.h.

300 mb.

.../ ITALIAN TRANSFORTER STATIONS.

5. Sorties

ITALLAN TRUSPORISER ST. TIO'S

Cislago Sorties Bru No. of aircraft d mpatched...... 9 9 5. " reporting attack on primary area..... 7 de destas secondary area.. 0 -(Reggio/E " alternative arca. 1

the state of the second second

1.57

1 1 N 1

Weather Experienced

North Italy: no cleud and good visibility, but hazy. Full moon. 6.

Narrative of ... ttack

The force of 18 aircraft was divided into 2 sections; the attacks by es 7. section were controlled by its leading aircraft. 7 of the 9 -ancasters detai for Cislago attacked successfully from low-level, one piroraft lost the format Brugherio formation attacked the target, but instructed the remainder of the force to bonb the secondary target, Reggio (Bmilia) Transformer Station, owing to haze. .11 report attack, but at least one member of the force believed the .1: the majority bombed a wireless transmitting station at Parma in error. aircraft landed in North Africe. 2 n.49 . +

Daylight Reconnaissance

Cislago_ The transformer station at Cislago was shown by reconnaissan 8. phtographs to be severely damaged. 3 of the 4 220/45 K.V. single phase transformers appeared to be damaged, and were surrounded by oil. A pylon seemed t be about half its normal height and the 45 K.V. lead-out gantry was damaged in several places. One of the 220 K.V. line circuit breakers at the S.E. end of station was demolished, and several craters were visible on the N.E. boundary wall near the 220 K.V. lead-in gantry and switches. 4 bays of an 8 bay work were almost destroyed and 4 small sheds were wrecked. A crater seen at the corner of the main road and the entrance road caused a partial blockage and 2 3 direct hits were seen on a road acar a flak position. Other craters were visible outside the S.E. boundary. -

9. Brugherio and Reggio No visible a ange was caused to either transfor station and no craters were seen in the vicinity.

Enemy Defences

10. Plak and Scarchli hts Little flak was experienced in the target are but heavy predicted flak was in action at Spezia, and over Genoa. 2 aircraft were hit.

11. One [u.88 over Gislago crused considerable trouble, and Fighters sariously damaged the one Lineaster which it attacked. There were no other interceptions. Rect production of the states.

Casualties

. . ..

12.	No. of	aircraft	missing.	2413174	03	1 (5.43)
· · · · · ·	a * ."	'" ;;	damaged	(*1FK		Na 11/03/03/04/07/03
12/17	83	27		(fi hters		4 (22.5)

Nothing is known of the fate of the one aissing aircraft. Cne Lancest crashed on landing coing to petrol shortage.

	tin t the state of	
- 19 - C	• • • • • • • • • • • • • • • • • • •	1.00
		/Munich
· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	

Munich

13. 6 Hosquitoes boubed Munich from high level, bursts being seen in the target area. Searchlights exposed after the aircraft had bombed, but there was no flak, and all the airco aft returned uncamaged.

Leaflets

....

Leaflets were scattered in northern France by 7 dellingtons, all of 14. which returned safely.

EMO/JT. BC/S. 26342/2/ORS. 5th. October, 1943.

TARGET	GROUP	TYPE	SORTIRS	AIRCRAFT	REPORTING	ABCES		MISSING		eren.		DAIRBORN		T	SULTS	
				PRIM. AREA	ALT.	OVER EPOENT TERR	NOT OVER ENDITY TERR.		FLEX	PICHTIR	NOT E/A	ATLACK-	NOT TLCK-	1	I. R.	I
CIBL/CO	5	Larc. III	9	7	1	-	-	1	2	140	1	1	-	P. #.	20.5	2000
BRUCHERIO	5	Lane.III	1	1	-	-	-	-	-	-	-	-	-	P.	2.7	0
REGION	1.5	Lane.III	8	8	-	-	-	-		-	-	-	-	P.	21.4	2
LACETS DI 1	TLIY	TOTAL	18	16	1 '	270	-	1	2	1.0	1	1	-			_
MINICH	8	Mong. IV	6	6	-	-	-		-	2 H	-	-	-	P.	4.6	
BOURING TOT	LL		24	22	1	-	-	1	2	1.0	1 -	1	-	_		_
MONTLAGIS	91	Well.X	1	1		-	-	-	-				-			-
CH. WIRES	91	Well.III	1	1	-	-	-	-		-	-	-	-			_
L3 1728	91	Well.III	1	1	-	-	-	-	-	-	-		-	-	_	-
STRATES	91	Well.III	1	1	-						-	1		-		-
EL 2025	91	Well, III	1 1	11			-					-	11	-		
TOURS L. FLECHE	91	Well.III	1	1 1		-	-	-	-	-	-		- 1	1.0.4		14
LILFLETS TO	and the second se		7	7	-	-	-	-	-	- 1	-	-	1		1.243	_
TOTAL)		31	29	1	200	1	1	2	tuC	1	1	1			

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NICHT RAID REPORT NO. 380

COPY NO. 16

BOMHER COLMAND REPORT ON NIGHT OFERATIONS, 17/18th JULY, 1943.

LEAFLETS.

SUDDLARY.

1. 4 aircraft from Training Groups dropped leaflets over Frence without incident.

Mctoorological Forecast.

2. Bases:- Warm front approaching W. Ireland and S.W. England. All fit until 0300, thereafter local stratus and visibility troubles. Fog in Channel. Thunderstorms in S.W.

Germany: - Little cloud in N.W. Thunderstorms and thundery rain persisting in contro and S. Berlin: broken strato-cumulus, possibly some medium cloud between 10,000' and 15,000'. Total cover, 4-7/10ths.

France:- 10/10ths - modium cloud, with much very low cumulo-nimbus, over 1. coast. Thunderstorms in centre and S.

Sortios.

(a) No. of aircraft despatched . . . 4 (b) " " reaching primary area . . 4 (c) " " missing 0

leather Experienced.

3/10ths cloud. Ground haze. Clear visibility.

Snorry Defences.

5. There was no evidence of controlled night fighter activity on this night. . little heavy flak at Lo liens provided the only opposition.

Casualtics.

All our aircraft returned undamaged.

hrgot	Cp.	Type	Sortios	A/C reaching primary area		Dam.god	Interceptions
WAL	92	Woll.III	1	1	-	- 1	<u></u>
BGENT/N	92		1	1	-	100	-
Z NS	92	•	1	1	-	-	-
LENCON	92		1	1	-	- 1	-
TOTAL			4	4	-	-	-

14/Lis C/S.26342/4/ORS.3. 4th September, 1943.

COFY NO. 16

BOMBER CONDIAND REPORT ON NIGHT OFERATIONS, 18/19th JULY, 1943.

Minelaying.

SUNDLARY.

 16 Wellingtons of 1 Group laid 32 mines off the French Atlantic coast without loss.

eteorological Forecast.

2. Midnight frontal punitions:- (1) coglusion from 60°N 0507 to Orknoy to 5°N 05°E., becoming (2) warm soutwards to 50 N 05°E and (3) cold south-westwards to incs. and S.W. England. Belt of rain with cloud to great heights (freezing level 7,000') along cold front. In warm sector, showers with cloud at 1,000'.

Bases:- 7-10/10ths at 1,000' by dusk, falling to 600' in many areas, with showers. These conditions will persist all night. Visibility 2-3 miles, locally 1 mile.

Gormany: - Continuous cloud at medium levels between $05^{\circ}B$ and $09^{\circ}E$., N. of $50^{\circ}N$. Low cloud and rain to $07^{\circ}B$. Little cloud E. of $09^{\circ}E$. Broken medium cloud S. of $50^{\circ}N$.

France:- Showers over N.E. France and Low Countries. Broken medium and strate-cumulus in centre and E. Stratus below 1,000' in E.Y. Much layer cloud in S.W.

orties.

(a)	No.	of	aircra	aft do	spatol	ιcã					16
(b)				re	aching	I PI	rice	y e	re	a.,	16
(0)				mi	ssing		•	٠.		•	0
(a)	No.	of	aircra " m mines	laid	\sim		•		13		32

eather Experienced.

W. France: - Thin, broken strate-ounulus, base 3-4,000'. Excellent visibility.

nerry Defonces.

Intense and accurate light and heavy flak with searchlights covered the whole twa of Lorient/Port Louis/Ile de Greix. Slight light and heavy flak was met at brlaix and Ile do Batz. There was no evidence of controlled night fighter activity.

csual ties.

All our aircraft returned safely. On: was slightly domaged by flak near orient,

argot	Cp.	Type	Sortios	A/C reaching primary area		Damago (Flak)	Intor- ceptions	Rosults
orient	1	Well.X	8	8	-	1	-	16 mines
t. Nazairo	1	Woll.X.	8	8	-	-	-	16 minos
TOT	T A I		16	16	-	1	-	32 mines

21/L.S C/S.26342/4/ORS.3. 5 th 3cp tember, 1943.

NIGHT RAID REPORT NO. 382.

COPY NO. 16

5.O

BOMBER CONMAND REPORT ON NIGHT OF GRATICHS, 23/24th JULY, 1943.

LEAFLETS.

SUDMARY.

1. 7 aircraft from Training Groups dispersed leaflets over Paris, Helun, ionterau and Fontainebleau. All returned safely, though 2 were damaged by flak.

ieteorological Forecast.

2. Bases:- Little or no cloud, except locally on 2. coast and inland in East ...nglia; base not below 1,500'. Visibility troubles may occur in 3 and 8 Groups by 0200 hours, and in other Groups by 0400 hours, with ground fog becoming widespread.

Germany:- Low stratus over N.M. coastal strip, with well broken residual convection cloud. 10/10ths low stratus at Hanburg. Dispersing cumulus, possibly less than 5/10ths but extending to 25,000' in Ruhr and Berlin creas. Pog patches along Baltic Coast.

France:- Fog patches in N.W. Broken layer cloud S. of Nantes.

Sorties.

3.

(a)	lio.	of	airoraft	despatch	ed .	•	•		7.
(1)	n			despatche	prime	ry en	Ca.		7
(0)				missing	1				0

Jeather Experienced.

4.

10/10ths aloud, tops 5,000'. Clear visibility above. No moon.

Inerry Defences.

5. No controlled fighter activity was apparent on this night. Some flak was procurtered from known positions.

Casualties.

6. 2 aircraft sustained slight danage from flak. All returned safely.

TARGET	GP.	TYPE	SOR- TIES	A/C REPORTING ATT/CK OF PRIMARY AREA	ABOR- TIVE SORTIES	HIS- SING	D. PI AR	PICH DER	NOT BA	INTER- CEPTION
PARIS	91	Whit.V	4	4	-	-	1	-	-	-
BLUN .	91	Whit.V	1	1		-	1	-	- 1	-
DNTERBAU	91	Whit.V	1	1		- 1	-	-	-	-
ONTA DEBLEAU	91	hit.V.	1	1		-	-	-	-	-
LFLETS	TOT.L		7	7	- 1	-	2	-	-	-

Lid/LinS. B./S.26342/4/ORS.3. 24th September, 1943.

NIGHT RAID REPORT NO. 383

COPY NO. 16

BONBER CONMAND REPORT ON NIGHT OPIR. TIONS, 24/25th. JULY, 1943.

ABURG: Leghorn: Kiel; Duisburg: Bremen: Lubeck: Minelaying: Leaflets.

SURLAY

LABURG

1. 728 aircraft (92% of the total force of 791 despatched) delivered an exceptionally severe and devastating attack on Hamburg, the largest port in Europe and the second oity in Germany. WINDOW, used for the first time on operations, so distracted the defences the only 12 aircraft were lost. The Pathfinders used the Newhaven ground-marking technique with great accuracy. This was the first of 4 raids within a fortnight that laid waste the greater part of Eamburg.

eghorn

33 Lancasters, returning from North Africa after attacking Italian transformer stations from Britain the provious week, bombed Leghorn. The port as found to be lightly defended, and good fires were started. None of our Lircraft was demaged.

icl: Duisburg: Bremen: Lubeck.

5. 9 Mosquitoes, out of a force of 11, made harassing raids on the ports of tiel, Duisburg, Bromen and Lubuck. All returned unduraged.

finelaying

. ... 6 Wellingtons each laid 2 mines in the Elbe estuary, without loss. One trash-landed on return, and was badly domaged.

eaflets

. 5 aircraft, out o'a force of 7, dispersed leaflets uneventfully over towns . In Northern and Central France.

eather Porecast

Bases: All fit at dusk, with clear skics and moderate visibility, eteriorating during the night; but by 0400 hours, 7%, of bases will have 1 mile. In better, and 50% by 0500 hours. 6 Group may have to divert. Training Groups hafe.

Germany:- Small amounts of residual convection cloud in N.W. Residual aundery cloud in centre and S., with local storms but clearances. Hamburg: arge amounts of strato-cumulus may drift in from the North Sca, not more than ,000' thick. Even chance of little cloud over target. Similar conditions in route. Winds: to 05°E, 310°/10 m.p.h: 05°E. to Hamburg, 360°/10 m.p.h.

W. France:- Broken layer cloud.

HAJ BURG

lan of attack

Route:- 5445N. 0700E. - 5355W. 0945E. - 140 BURG - 5315N. 1000E. - 5430N.

...../8. Method.

Method:- (1) Yellow E.I. were to be dropped as route-markers at 5411 N. 8. 0850E. by 6 of the blind-markers. They were to be supported in this by 30 of the baokers-up.

(ii) 20 Y-aircraft were to mark the target, on H2S, with yellow T.I. at zero - 3, then to drop sticks of flores at 6-second intervals if cloud conditions permitted (less than 6/10ths.).

(iii) 8 Y-aircraft, acting as visual markers, were to arrive at zero-2 and mark the aiming-point with red T.I.

(iv) 53 backers-up were to aim green T.I. at, in order of preference, (1) red T.I. (2) centre of green T.I. fovershooting in either case by 2 seconds) (3) centre of yellow T.I. 11 of these crows were to be expert in the use of H2S, and were to be spread evenly throughout the attack. They were to us H2S to check the accuracy of previous T.I. and recentre the attack if it began to creep back. If their H2S became unserviceable, they were to act as ordinary backers-up.

(v) Main Force aircraft were to boob reds if visible, otherwise the centre of the pattern of greens. Yellows were to be ignored.

(vi) Yellow route-marker T.I. were to be dropped at 5343 N. 0836 E. by, 6, blind-markers, supported by 21 backers-up.

9. Timing:- Zero hour: 0100 hours.

10.

Mary X

Period of .ttack: 0057-0150 hours.

• 1

- 19

	Visual marke Fackers-up.	ors.					fron zero		ero + J	.8
1	Tronger o apr	- 8 ⁶⁶	(hut	- 1.	ct er	ro	+ 2: 2 at z	ero + 6.	+20.	29 .
	S. 343	20					at zero +			
1	tain Force	(i)	zero +	2	to + 1	0: 1	Lencs, of 1	and 5 u	roups.	
							(Loncs. of Hola. of	3 and 5	Group	s. 、
		(iii)	zero +	18	to +	26:	Stirlings			
50	*)						Hels. of	1, 4, 6	Group	s. "-
E.		(v)	zoro +	34	to +	42:	Hals. of '4			
		(vi)	zero +	42	to +	50:	Loncs. of	1 and 5	Groups	š.,
Boando I	Loads :- Bli	nd-Mar	Kers:			2				

Lanc. - 4x4 flare white + 4 T.I.yellow LB. + 1x4,000 + 3x1,00 + 4x1,000 (11D) + 4x1,000 (1 1D) + 2 7 Hol. - 4x4 . . - 12 . 2 Hal. - 4x4 + 4

7 Lanc. - 4x4 + 2 + 1x4,000 + 3x1,00

Visual Markers

-6 Lanc. - 5 T.I. red (2 LB) + 1x4,000 + 3x1,000. 2 Hal. - 5 T.I. red (2 LB) + 3x1,000 (LD).

Backers-up

1.14

8 Stir. - 2 T.I.yellow LB + 5 T.I. green (2LE) + 5x500. . + 5 . 14 Lanc. - 2 + 1x4,000 + 3x1,000. 14 Hal. -5 T.I. green (2LB) + 4x1,000 (1 LD). 17 Hal. -5 " + 1x4.000 + 3x1.0

- 5 ". + 1x4,000 + 3x1,000 + 1x8x40 GP. 17 Hal.

WINDOW: -11. WIDDOW was to be dropped from 5434 N. 0730 E. on the outward journey to 5415N. 0700E. on the return. Rate of discharge: 1 packet per nimite. Height of release: maximum possible. Minimum evasive action during the droppind of WINDOW.

2.

...../12 wind:-

12. Wind:- 6 of the blind-markers were to report by W/T, as early as possible, the wind they had found between the last GEE fix and the first fix by H2S on the enemy coast. Their report would be retransmitted to Main Porce aircraft at zero - 10, zero, zero + 10 and zero + 20.

13. Ground Defences:- 17 of the backers-up and 35 non-marker Pathfinders were to scatter anti-personnel boobs on the ground defences as they left the target.

14. Diversionary Attacks:- 3 Mosquitoes were to raid each of Kiel, Lubeck and Bromen, to divert the fire-fighting services from the main attack.

Sorties

(a) No. of aircraft despatched 791 15. . reporting attack on primary area...... 728 (92.05) C abortive sorties (technical defect or (+1x) nanipulative error 42) (sickness of crow..... 2).... 46 (5.83) (borbs hung up..... aircraft missing (e) " 12 (1.55)

x = also attacked primary.

Weather Experienced

Bases:- Little cloud. Moderate visibility. Local nist and fog after 0500.
 Route:- 6-10/10ths. cloud, base 1,500', tops 3,000'. Good visibility.
 Hamburg:- No cloud. Hazy. Quarter moon. Good visibility. Wind up to 18,000': variable, 10-15 m.p.h.

Sight Photographic Statistics.

17. No. of photographs examined. . 647 (plotted within 3 miles......45) No. of photographs showing (plotted within No. of photographs showing fire-tracks only 3 miles.275 (plotted outside ...647 3 miles.342 (umplotted...... 30) No. of aircraft reporting attack

arrativo of Attaok

nZ

3. The attack was opened on time by the blind illuminators, 11 of which ttacked between zero - 3 and zero + 6. The first two are believed to have abod short of the target (one is plotted 5½ miles N.W.) but the remainder were est accurate and at least one yellow T.I. fell very close to the aiming-point.

9. The first visual marker attacked at zero - 2, and his reds were reported behave fallen in the dock area, probably about 2 miles S.E. of the aiming-point. t the same time, a second visual marker released a single red in error (his cob-sight was u/s) $\frac{1}{2}$ miles N.W. These were followed at zero + 2 by 2 further alvees, one $\frac{1}{2}$ miles E.N.E. on the edge of the built-up area, and the other $\frac{1}{2}$ alles W. in Altena. It was around these 4 salvees that the attack control in the early stages, in 4 distinct concentrations. 20. By zoro + 8, the last red marker had burnt out, and the responsibility for keeping the attack control on the target rested with the backersing. They performed their task successfully until zero + 15, when undershooting caused a marked "ercep-back." By zero + 30, a long carpot of inconditionics extended back along the line of approach for 7 miles.

Day Reconnaissance.

21. A recommission sortie flown on 26th July covered a comparatively suall area of Hauburg, including the districts of Altona and Harburg-Wilhelmsburg, and the docks. Very severe damage was revealed, including the effects of 2 heavy raids on 25th and 26th July by aircraft of the U.S.A.A.F.

22. In Blohn and Voss shippards, the snithery, ship-fitters' shop, boilernakors' and copportints' shops, foundry, Diesel engine testing shop, and 2 tool stores were damaged. One dry dock was sunk and another had booled over In Howaldtsworke, the frame-bending and plate furnaces, angle-bar snithery, shipbuilding and mechanizer sheds, 3 shops of the M.A.N. Diesel engine works and one other building were severely hit. The Neuhofer power-station, the eil stores between Ross Hafen and Neuhofer Seeschiff Cancl, the main railway station and Rathaus at Altene, and the Reisehsbank Directorate were partly destroyed, while the municipal gasworks was wholly gutted. Many hits were recorded on railway trucks and sidings. Commercial and residential property was largely devastated, especially in all districts W. of Aussen Alster.

Alternative Targets

23. 5 aircraft attacked alternative targets, in the areas of Elmshern, Wilhelmsburg, Busun, Heide and 5402 N. 0830 E. (flak-ship). A sixth aircraft which wont on to attack the primary, dropped two heavy bonbs respectively 20 miles S.S.W. and 5 miles S. of the target, after being demaged by flak.

Special Equipment.

24. H2S:- 74 Y-aircraft were despatched - 18 blind-markor illuminators, 10 recentrers, and 46 main force aircraft, carrying H2S for navigational purposes only.

24. 16 of the 18 blind-merkors reported attack, but 4 of these dropped no 7. 3 because of unserviceable equipment and one on account of being could by searchlights over the target, which necessitated violent evasive action. 3 of 12 blind-markers were also unable to use H23, but dropped markers in spite of this; 7 marked blindly on H25 and 2 on H25 with a visual check. The standard of accuracy was high.

25. A further 10 Y-aircraft were detailed as recentrers. Their erows were instructed to check the position of the green T.I. dropped by the backers up, and to counter any errors by releasing their own T.I. over the aiming-poin by means of H2S. All 10 reported attack, but only one on H2S. 2 of these dropped no T.I., finding their bomb-sights unserviceable.

26. 38 of the 46 aircraft which carried H2S as a navigational aid only, reached their target with serviceable sets. 2 attacked blindly on their equipment, and 13 more used it to confirm their position at bombing.

27. GEE: The Eastern Chain operated on the Wyoning frequency throughout, There was no jamming until 50 miles from Heligoland, but thereafter the usual types of interference were reported. Average ranges of 300 and 310 miles were obtained and the signals were strong, the 'B' signal being visible through out the journey and at the target. The Northern Chain was tried, but only o signal, probably 'C', could be seen. The average ranges were an improvement on these obtained on 20/21st April, when this route was last used. This may have been due either to the energy's jamming of the Virginia frequency instead of the Hyoning or to the improved training of navigators.

/..... 28. WINDOW

5.

INDOW, and aircraft wore ordered to fly as high as possible.

Many references to the difficulties caused by WINDOW to the ground and ighter defences were overheard in intercepted wireless traffic. Some energy nircraft reported interference, and others complained of "too many hostiles". no very interesting remark was "It is impossible, too many hostiles." This indicates that the WINDOW cohoes, besides producing general interference on the isplay tube, were also confused with true aircraft echoes.

50. siremft flying considerably higher than the lain Force received little rotoction from WINDOW.

cfences .

51 . Flak and Soarchlights: -On the outward and honeward journeys, noderately many flak was experienced from both banks of the Elbe, with some searchlights. lost reports mentioning any high degree of accuracy or intensity cano from the arlier arrivals over the area. Hanburg defences put up a heavy barrage which, shough initially intense, decreased noticeably as the attack progressed. Many warchlights appeared to be groping blindly, building up at times into comes of 0 to 40 beens, without achieving very offective results. Even so, both flak and fighters depended on them for their main support. 20 aircraft (2.5,) were imaged by flak - 9 Halifaxes, 8 Laneasters and 2 Stirlings. All the 10 incidents whose positions have been identified took place in the target area -5 in the first 10 minutes of the attack.

Fighters:- 115 sorties by night fighters were overheard, 33 of which 32. continued British aircraft. Our crows reported 49 interceptions, but only 7 of these developed into attacks. Ency aircraft frequently seemed unaware of the prosense of bonbers in their vicinity. (Only 2 instances of fighter damage were reported, and all the 5 bombers seen to be shot down in combat were at least 20 miles away from Hamburg.

Casualtics

33.

No. of airoraft missing. 12 (1.5) damagod (flak.....?0) fightor,..... 2) 31

of the 12 missing aircraft, 3 more probably lost on the outward journey, 5 over the target and 4 during the roturn. 5 (possibly 6) have been attributed to flak and 5 (possibly 6) to fighter. There is ovidence from orews' reports that the outbound losses occurred, all to fightors, at Itzehoe, Holdorf and bligoland, and that flak was responsible for 3 of the aircraft destroyed over Schburg, the cause of the other 2 losses here being unknown. 2 airoreft were seen shot down by flak on the roturn route at Bromerhaven, and a further 2 by fighters at Cuxhaven and Wonzendorf. All but 3 of the aircraft whose astruction Tas observed were coned before being hit.

One Ju.88 was probably destroyed as the result of a collision with a 2 Lancastors received damage when they collided over Wyton. stirling. Onc Lancastor and 2 Halifaxes were hit by British incondicries, and another Lancastor was damaged by one of its own T.I., which was probably hit by flak as it left the airoraft.

35. The losses on this night were unexpectedly low for a raid on a target of such importance. Not only was the fightor officiency impaired, as indicated by intercopted R/T traffic and the low attack/intercoption ratio, but, as is clear from the minor nature of all flak damage reported by returning aircraft, the A.A. guns woro sadly haupard, while many of the searchlights wan bred ainlessly about the sky.

..../LOCHORN.

LEGHORN

36. 33 Lancastors of 5 Group, returning from North Africe after having atta-Italian transformer stations from Britain carlier in July, were detailed to bee harbour installations at Leghorn. All attacked the target, where the nole and docks were clearly visible through gaps in the low cloud. Bombs were seen to fall in the northern part of the harbour area, where two explosions were 'report, and large fires were started in the railway marshalling yards. The defences we very light, emprising 10 to 20 heavy guns and a few searchlights, and all our aircraft proceeded underlaged to British bases.

KIEL: DUISBURG: BRACK: LUBECK:

37. 13 P.F.F. Mosquitees were detailed to carry out harassing attacks on per in N. and N.W. Germany - 4 on Duisburg and 3 each on Kiel, Bromen and Luceek. 2 aircraft returned early for technical reasons; the remaining 11 bended their objectives in conditions of good visibility, except at Bromen, where the town was covered with 10/10ths, cloud. At Kiel, a large fire was started, which was visible for 30 miles on the return journey. Little opposition was encountered, and none of our aircraft was lost or damaged.

MINGLAYING

38. 6 Wollingtons of 1 Group each laid 2 mines in the Elbe estuary. No dam Was sustained from energy action, but one aircraft belly-landed in a cornicild me its base and suffered serious injury. Non. of the erew was hurt.

LEAFLETS

39. 5 Wellingtons, out of a force of 7 despatched by 92 Group, dispersed leaflets over various towns in N. and Central France. No incidents were reports and all returned safely.

MLM/JT. BC/S.26342/2/ORS3, 6th. October, 1943.

mand.

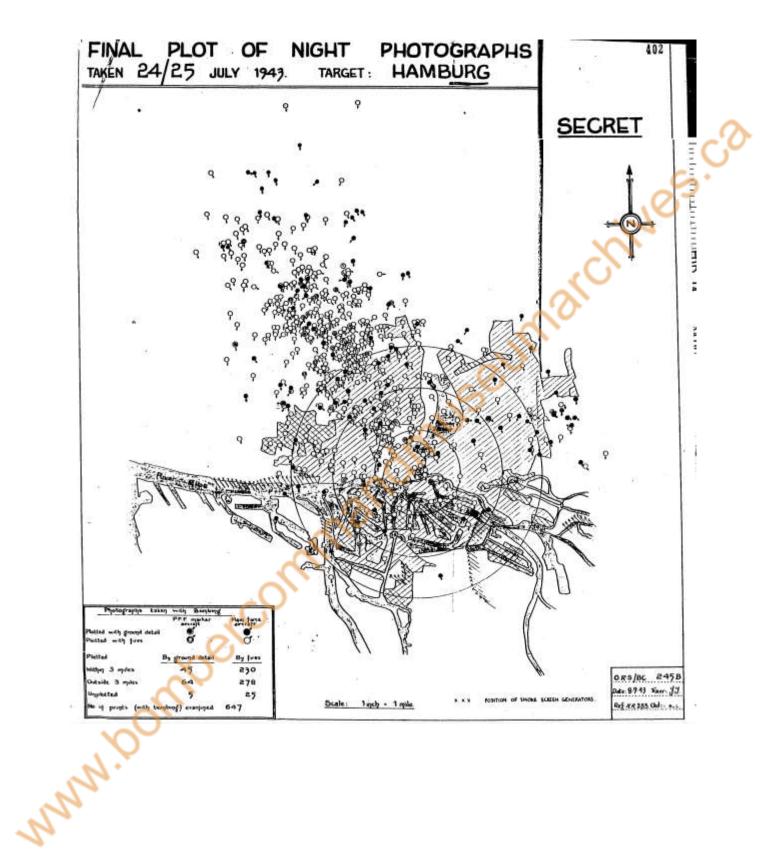
TARGET	GROUP	TYPE	SCHTES	/C .HE	CHTING K ON		GATVL CRVIES	103300		DULCE	l Invites	INTERCEPT	132	RESULTS Tona of Bonba
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TURG	8 297	Hal.ILAV	2	2	-			-	-			4.		P. 1361.2 1002.4
	14410000	Hal.IA	22	21	10		1	-	2			1.1	-	A. 5.4 9.4 N. 14.7 10.2
	1	Stir.I	6	6	5.1	-	-	- 5		-	-	1.7	1	N. 14.7 13.2 Beavy Donbe
- Tel 1	1.1	Stir.III	1 1	.1		-	-	-		-		1.5		60001b. 40001b.
10 23	17	Long-I	4	4	-	-	5	-		-		1.7	17 3	2. 11 326
+	-	Lanc.III	43	42	- 7	-	1. 1		1.0+3	-	1/0-	-	1 *	4 - 1
		Hal-IIAV	2		-	-	1	-	1/0+1	-	-	-		N 4
24	8	Hal- IA	8	5	- C	1.	3	-	1.46.4.1	1.2		1.2		
	FORCE	Stir.I	3	2	- E	1.5			2	2 - 1		1.2		
	POALE	Leno-I	.9	5	1.2	1.2		2	-	2	-	12 I	12 1	
- 19 S	\$362.00	Long.III	10	9	1.2	10.00				-	-	-	- 1	escan in 👘
		Long+1	23	20			2	1	-	-	-	-	1	
		Lano.III	100	93	1	1.2	3	3	2	-	-	-	4	
	20.00	Well.T	35	31	1	1.1	5	i	2.1		TE	-	1 in 1	0."
11.		Stir.I	6	5		-	1	-	-	-	-	-	1	
	3	Stir-III		.98	1	1	6	3	5		13		5	
	-	Inne.II	16	15			1 1	-	-	-		H		
		Hal.IIAV	118	105	2	-	7	3	1	-	10+14	1	6	
		Hal-In	40	34	. 1		4	1	-		+	1	2	
		Well.X	17	17	-		- 1	-	-			-	-	
	5	Lano-I	42	39	-	-	3	- 1	100+1	-	1.40		13	
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...../Contd:

401

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							20		
H.JEU G:	DUISBUNG:	1000 0EN :	KEL	LUNSCH:	LABHORDE:	HEMLITES	LE.FLETS:	24/25th. JULY,	1943.

I a sum I	1000	1.1007			RFORTIC		RTIVE	TISTIC		DATE		INFIGE?	TI063 .		ESULT:	
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DUISDUNG	8 PFF	Mosq-IV	4	3	-	-	1	-	-	-	-	-	-	P.	2.3	-
DREPEN	8 PF7	Mosq. IV	3.	3	-	- (-	-		-	-	-	P.	2.0	0.3
KIRL	8 PFF	Wonq-IV	3	2	-	6	1		-	-		-	-	P.	1.3	0.1
LUDBCK	8 257.	Nosq.IV	3	3		-		•	-	-		-	-	P.	2.0	0.3
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LE PLETS HELIRI	92	Well.II	1	2		-	-		-	-	-	1	-			
MOPTLEGIS	92	Well-II		1	-	-	-	-	-	-	-	-	-	-		_
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ANCERS	92	Well.TT		1	-	-	-	-		-	-	-	-		-	
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LEFLET TO	LIN		7	5	-	-	2		-	-	-	-		_	_	
TOT.			850	783	5+1 ⁰	1	49	12	یند +16	1.40 +1	18+30 +2,4C+ 24+2	7	42			



NIGHT R.ID REPORT NO. 384.

COPY NO. 16

BOMESR COMMAND REPORT ON NIGHT OPERATIONS - 25/26th JULY, 1943.

ESSEA: Cologne: Hamburg: Gelsenkirchen: Minelaying:

Leaflets.

SUMMARY

SEN.

A highly successful groundmarking attack on the city of Essen was carried out 705 aircraft, of which 16 were OBOE Mosquitoes. The raid was mainly concentrated a Krupps Works, which sustained fresh damage equal to the cumulative offect of all revious raids on Essen. Damage to the surrounding built-up area was also severe. aircraft (3.35) were lost; this is less than the usual rate for Essen, and the eduction may be attributed to the use of WINDOW for the second time.

logne, Hamburg and Gelsenkirchon.

Harassing raids on Cologne, Hamburg and Golsenkirchen word carried out by 10 of total of 12 Hosquitces despatched. No damage was sustained by the bombers.

inclaying.

. 17 aircraft laid a total of 78 mines off the Frisian Islands, returning without neident.

aflots.

6 of 7 aircraft despatched by Training Groups seattored locflots in northern ranco, all roturning undamagod.

toorological Forecast.

Home bases: fit for take-off, with clear skies and moderate visibility, which fill deteriorate during the night. At 0400 hours at least 75% of operational bases fill have visibility of more than one mile.

Germany: generally fine in N.W., N. of 50°N., but a few patches os stratounulus; hazy. Good elearances in residual convection cloud in B., centre and S., and thunderstorms in Alps.

France: patches of layer aloud in N.

Esson: cloar skies apart from fragments of residual cupulo-nimbus.

Routes: patches of cumulo-nimbus over the sea and the enemy coasts, particularly to the S. of the route, on the cutward journey. Mainly aloudless on the roturn.

Wind:	75	0 mb.	500 mb	300 rb.
Yorkshire:	210 ⁰ /	25 - 30 m.p.h.	250°/30-35 n.p.h.	(350°/40 m.p.h. (out) (300°/45 n.p.h. (heru)
Other bases and	routo:	Light, Variable.	Light, Variable	Light variable.

..../ESSEN

2.

ESSEN.

Plan of Attack.

6. <u>Routo.</u> East coast - 33°00'N. 03°32'E. - Egmond - 51°53'N. 06°38'E. - TARCE turn right - Noordwijk - 52°40'N.03°05'E. - East coast .

7. Larking Mothod - Ground-marking.

(a) 5 Y-type backers-up were to drop warning yellow T.I's at 51°51'N. 06°07^{b 1} (37 miles N.V. of Essen), the marking to be maintained by 11 other backers-up.

(b) 14 OBOB Mosquitoes were to mark the aiming-point with red T.I's.

(c) 33 backers-up were to aim green T.I's at rod T.L's, if visible, otherwist at the centre of existing T.I's, overshooting in either case by 2 seconds.

(d) Main force aircraft were to bonb rod T.I's or the centre of the pattern green T.I's.

6			0030 hours.	TOTIOI OI A	ttao!: - 0026	- 0114
	<u>Mosquitces</u> *	25	Backers-up.		iein Po	roo.
{z z	- 4), Z, (Z + 6), (Z + 1 + 14), (Z + 1 + 22), (Z + 1 + 28), (Z + 1 + 36), (Z + 1 + 36), (Z + 1) + 44).	1), 17), 25), 33),	(Z + 2) - (Z + 1) To attack at the per minute, inclu (Z + 14), $(Z + 2)but not at otherwith Mosquite at$	rate of one uding $(2 + 3)$, 5), and $(2 + 36)$ times coincidi	∠ - (Z +), ng	42).
	* 3	Plus 2 reserved	•• ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~			- 1
9.	Bomb Loads	5.	a		24	~
	Masquitoo	<u>8.</u>	A CONTRACT		12	
16	Mosquitocs:-	2 T.I's rod	L.B. + 2 T.I.'s red			20
	Baokors-u	e' 🔨				
13	Lanoastors:-	1 T.I. yello H.C. + 3 x 1	w L.B. + 2 T.I's gr ,000 M.C.	ocn L.B. + 3 T.	I's groon +	1 x 4,00
6	Halifaxos:-		w L.B. + 2 T.I's gr ,000 G.F. (L.D.)	oon L.B. + 3 T.	i's groen +	3 x 1,00
9	Halifaxos:-	2 T.I's gree	n L.B. + 3 T.I's gr	00n + 3 x 1,000	0 ¥.C. + 1 x	1,000 G.
5	Lancastors:-	2 T.I's gree	n L.B. + 3 T.I's gr	con + 1 x 4,000	0 H.C. + 3 x	1,000 N.
	545'E. to tar	WINDOW was got to 52°43'N	to be used at rate . 03°27'E.	"C". WIEDOW da	ropping zone	:- 52 ⁰ 55'
Se	ortics.			1.15		
sh"	I. No. of ai	roraft despato "roporti	ng attack on primar	y area .	: : :	705 604 (85
а Т	" " ab	ortivo sortios	(toohnical & manipu (sicknoss of erew (late	lative defects	63) 2) 2).	. 69 (*
	= " ai	roraft missing	(orashod on out iard (inoxporience	l routo	÷ ∙ ₿.	23 (3-
				/ M o	athor Export	oncod.

th

;hi

thar Experienced.

Home bases: Little cloud, hazy. Visibility deteriorated at several bases by 10 hours, but more than 50% of operational and training bases remained fit.

Route: Occasional patches of thin strato-cumulus. Winds light and variable the E., W.S.W. to S.W./20 m.p.h. in W.

Essen: Nil, or small amounts of thin cloud far below the aircraft. Hezy. c report of a large cumulus cloud, top 20,000 feet, to the S. of the target. Surface d, light variable or calm.

tht Photographic Evidence.

No.	of photogr	raphs with bombing examined	 •		505
T	• •	showing (plotted within 3 mile ground (plotted outside 3 mil detail (unplot ed		Ĉ	68
•	an sa a sa	showing (plotted within 3 mile fire (plotted outside 3 mil tracks (unplotted	?	۲. د	437
-					

rative of Attack.

Red T.I's were accurately placed by 11 OBOE Mosquitoes, and although the ming was not as planned, the target was almost continuously marked. The backing-up swell timed and unbroken. The bombing of the main force was concentrated within harrow strip about $1\frac{1}{2}$ miles wide, stretching back from the aiming point just S.W. of upps, for about $4\frac{1}{2}$ miles along the line of approach, and including the whole of upps Works. A few Stirlings and Halifares which bombed 4 to 8 miles short of the rate, appear to have been decoyed by imitation red T.I's. Thus the main weight of e attack fell on Krupps Works and the surrounding built-up area, and the devastation pears to have been equal to the whole of that caused by all previous raids on this rget.

light Reconnaissance.

Reconnaissance photographs revealed very severe damage, centred on Krupps Works, re, out of a total of 190 workshops, 110 have been affected. Have wrought by fire s great, and several buildings were still burning 2 days after the attack. Among more important and larger departments damaged were the following :- (a) the ttorn making shop, destroyed over an area of about one acre; (b) a machine shop, wring 3 acres, engaged on manufacturing field-guns and carriages was burnt.out; another machino shop, previously half destroyed, was completely gutted; (d) a ird machine shop, already scriously damaged, suffered further devastation by fire, I was still burning; (c) 3 of the 4 annealing shops were almost obliterated, and the urth was partially demolished; (f) the divsel engine works, covering more than 3 res, and probably engaged in making medium and heavy gun mountings, was destroyed by re; - (g) 3 large buildings used for shell forging and turning sustained many hits by and incondiary bombs, and were very heavily damaged. Other buildings destroyed cluded a sawmill, a constructional engineering shop, a light railway workshop, the il-road administration building, a large number sheds and warehouse buildings, many rkers billets and large dumps of stores and timber. 12 or 13 power or generator itions and boilor houses woro damagod, and several cooling towers were demolished, is seriously affecting the production of power for various plants. The general carance of the works indicated that productional activity was at a low obb. In lition, Krupps' harbour foundry was damaged again; several direct hits destroyed rt of the roof of the steel foundry, an overhead travelling erane was probably broken, a group of despatch sheds were severely damaged. Many oraters were visible on lings serving various parts of the works, and on lines connecting with the main stoal rks in Essen.

16. Other industrial plants severely achaged included T.H. Goldschnidt A.G. (lead and tin smelters), Presswerke A.G. (makers of plastics), a large brewery a an unidentified engineering works at Ruttenscheid. 3 collieries, a sine works, small brewery, a bridge fabricating works, a brickworks and 8 unidentified engineering works and small factories were also affected. There were also many hit railway tracks and sidings, destroying or derailing numerous waggons and coaches The main Essen station and goodsdepot, Essen Nord and Essen West passenger and g stations, Sergeroth and Ruttenscheid goods depots and Bergeborbeck station all s tained damage to buildings or platforms. 3 notor transport depots or garages we sericusly damaged, and many roads rendered impassable by oraters.

17. 41 utilities or public buildings, including a gasworks, a slaughter-house post-offices, the town-hall at Borbook, and a bank wore damaged or partially des 20 hutted camps for workers were affected, 2 being totally and 6 almost destroyed addition, more than 5,300 dwelling units were rendered uninhabitable.

Alternative Targets.

18. 9 aircraft attacked alternative targets in the ercas of Duisburg, Borber Oberhausen, Wesel, Bottrop, Rhenen, Doesburg, and Alkmanr (2). One aircraft wh also attacked the primary target, dropped part of its load on a searchlight const tration near Duisburg.

Special Equipment.

19. OBOE. 14 OBOE Mosquitoes and 2 reserves were detailed to mark the ter The special equipment failed in 2 aircraft, including both reserves, but the remaining Mosquitoes completed the task. 3 OBOE channels were in operation; is was the first occasion on which all 3 were used for marking. As a result more m aircraft were available, but owing to poor tiping circraft using different channel attacked almost simultaneously so that there were gaps in the marking. There were failures on the new channel.

20. <u>H2S</u>. H2S was carried as a navigational aid only. 37 of the 41 airor despatched reported attack, only 4 of these having unserviceable equipment. 2 c craft returned early and 2 were missing. 2 bombers checked the position of the markers by H2S before attacking.

21. <u>GEE.</u> The Eastern Chain operated on the Hyoning frequency throughout, a on the Arizona frequency from 0000 to 0130 hours. 366 aircraft reported recepts to the target, and the average range was 350 miles, which equalled the distance between Essen and the Eastern A station. The usual interference on the Wyoning frequency was reported, but there was none on the Arizona frequency, which was us for the first time. No navigator whose set was working efficiently failed to get fixes over the target, or as far along the route as he required them. The main trouble experienced was changing frequency units in Halifaxes.

WINDOW Coverage.

22. WINDOW was dropped at the rate of one bundle per minute from $52^{\circ}55^{\circ}N$. 03^o to the target to $52^{\circ}45^{\circ}N$. 03^o28'E. This was the second occasion on which WINDO' used. The reduction in losses, though appreciable, was not so great as in the n on Hanburg on 24/25th July, but this was probably due to the longer passage over encuy territory, which enabled the defences to pick cut stragglers. There was evidence that aircraft occupying relatively isolated positions of height and time when boobing were more prone to flak damage, and to encounters with encuy aircraft

Encoy Defences.

23. <u>Flak and Searchlights.</u> Flak and searchlight activity differed little fr usual, but there were no reports of very heavy flak in the Amsterdam/Rotterdam for and the numerous searchlights round Utrecht appeared to be indifferently control. At 28sen flak, genorally barrage fire, and alow to open up, increased in intensity 5 early stages of the raid, and then deteriorated rapidly. Searchlights, although numerous, were less effective than usual and appeared to be somewhat disorganise 44 aircraft were hit by flak, at least 27 over the target area. <u>Fighters.</u> As on the Henburg raid of the previous night, intercepted wiretraffic provided evidence of the difficulties experienced by the ground controls. wer, the number of pursuits overheard was allost as usual; 4 of the 16 pursuits lted in definite claims of victories; 2 other claims and 3 reports of aircraft falling were also overheard. There were also a few references to free-lancing. was scarcely mentioned; it is possible that fighter-pilots had been instructed to refer to A.I., particularly if it was unserviceable. In all, 75 night fighters ar to have been operating, and 42 of these mentioned British aircraft.

46 interceptions were reported; 9 developed into attacks, in which 3 bombers of damaged, and in 18 other instances the bomber opened fire. About one third of the unters occurred after leaving the energy coast.

alties.

ns estimated that 7 aircraft were shot down by flak in the target area, in each after being coned by searchlights. It least 10 aircraft were destroyed by iters, outbound at Egnond, Noerdwijk, Ijmuiden, Apeldoorn, Wesel, Arnhen, and burg, and homebound at Utrecht, Ijmuiden, Apeldoorn and 30 miles out to sea off the h coast. The fate of the other 6 aircraft is unknown.

4 aircraft c.rshed owing to technical failures, 9 other orashes or taxying dents occurred in which 3 aircraft were destroyed (one in the sea) and 8 aircraft damaged by incendiary boobs, which caused one to crash on landing.

Cologne, Henburg and Gelsenkirchen.

3 Mosquitoes were despatched to Colegne, 6 to Hanburg and 3 to Gelsenkirchen. Furg was bombed visually on fires burning after the previous night's raid by all the braft despatched. Cloud covered Cologne, and the 3 Mosquitoes attacked on E.T.A. In the last GKE fix. The Gelsenkirchen aircraft were equipped with OBOE, which led in 2 cases. The third attacked the primary target using the precision device. Lanage was sustained by the bombers.

Minelaying.

78 mines were laid off the Prisian Islam's by 17 aircraft. No damage was summed, and there were no failures.

Leaflets.

7 Wellingtons were despatched by 93 Group to scatter leaflets in northern are. 6 aircraft completed the task and the seventh returned early owing to a maintail defect. None of the aircraft was damaged.

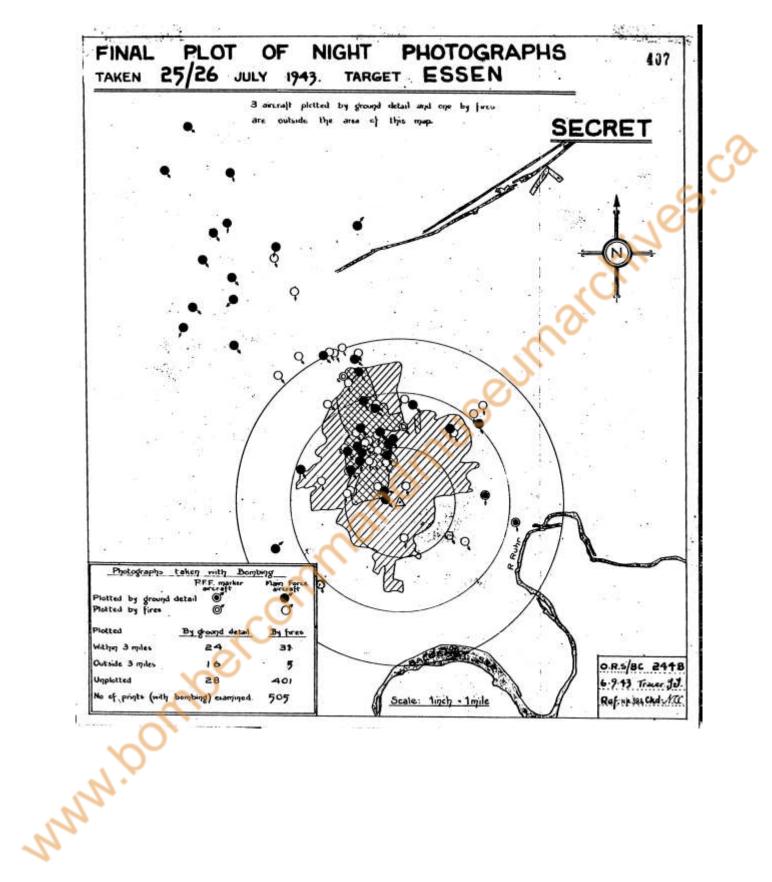
0./I.A.S. 5.26342/ORS. a September, 1943.

RAID TRACK NOT AVAILABLE

-	T.ROTT GROUN		SCRTTIS	RTIES ATT.CK ON			TIVE TIES	HT: SING		LJLDE		- INTERCEPTICAS		RESULTS Tons of Borbs	
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N.J.BURG	8 PFF.	Mosq. IV	6	6	\sim	-	-	-	-	-	-	-		2. 4.0 10.	
GELSZOK- IRCHEN	8 197.	Hosq. IV	3	1	0.	-	2	-	-	-	-	-	-	P. 0.7 -	
BONGLING TO	L		717	614	9+2	8	63	23	18+4.C +38	2+1_C ^K	40%+28 +10,40 +5	9	37		
HIGH THE	3	Stir.III	1	7	-		-	-	-	-	1.2	:	1	42 mines 25 mines	
FRISLUS		Lone.II	-	4	-				-		-	-		12 minos	
HINEL.YEAG	TOLL		17	17	-		-	-		14		-	-	76 mines	
LE PLETS	93	Well.III Well.X	2	2	:	-	ī	:	-	:	:	:	:		
LENCON	93	Well.III	1 2	1 2	- 1	1		2	-	5	- 2	1.	-		
RGEN"_N	93	Well.X	1	1	-	-		-	-	-	-	-	-		
LEAFLET TO			7	6	24	-	1 -	-	-			1.1	-		
TOTEI			741	637	9+26	8	64	23	18+4£ +38	2+1C [#]	4E+2B +104C +5	9	37		
- N		A leg attacked Deiname & Jap hit by flak.													

OFISIOKIRCHIM. HERILAYDE: LE.FLETS. 25/26th. JULY, 1943. ESSEN: COLOGUE: TLIFURGE

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COPY NO. 1

85.C

BOLBER COLLAND REPORT ON NIGHT OPERATIONS, 26/27th JULY, 1943.

Hamburg : Leaflets.

SUBAHARY.

Hamburg.

1. 5 P.F.F. Hosquitoes were sent on a harassing raid against Hamburg. 4 attacked the city, where fires were still seen to be burning from the sight of the 24th. The other two bombed Harburg and Westerhever. All returned undamaged.

Leaflets

2. 2 aircraft, out of a force of 3 despatched from Training Groups, dispersed leaflets over Chateaudun and Blois. The third returned early for technical reasons. No casualties were sustained.

oteorological Forecast.

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Bases:- Front at midnight from 60°N. 02°E. to Lincolnshire to Portland Bill, then south-westwards. Bolt of low cloud, base 1-2,000', in several layers possibly with thunderstorms or slight rain. W. of front, cloud will break and lift. E. of front, broken medium and strato-cumulus. 3 and 8 Group fit for dusk take-off and for roturn.

Germany:- Small amounts of residual thundery cloud along N.W. coast, persisting inland with good clearances. Hamburg: probably no cloud, but thick haze.

France: Disporsing thunder cloud,

Sorties,

					A COMPANY AND	onflota
4.	(a) (b)	No.	of	aircraft	despatched 6	
	(c)	۰.	a		" alternative area 2	
	(d)	u	u	abortivo	sortics (toch. dofect) 0	. 1
	(o)	9	ч	aircraft	missing 0	. 0

deather Exportenced

5. Hamburg :- 0-2/10ths cloud. Some haze. Ho moon.

France:- 7-10/10ths cloud, avorage tops 10,000'. Thick hazo.

Enemy Defences

No opposition from fighters or ground defences was reported.

Casual ties.

5.

7. All our aircraft roturned undamagod.

LIK/J1/PVD. BC/S.26342/4/ORS3, 25th Soptombor. 1943.

TARGET	(main)	TYPE	sonnis	ATTAC	PORT/ING	ABORTIVE SORTIES	HT SSING	DALAGE	CEPTIONS	R:SUL7S
- 10	GROUP	inte ;			ALTERIATIVE AREA	NOT OVER HIELY	HISSING .	THURDE	GEPTIONS	Tons of Bant
1 a	· · · · · ·		Sec.		(wysh					H.E. Inc.
HALIBURG	8 P.F.F.	Mosquito IV	6	4	2		19 A	-	-	P 3.1 - A 1.6 -
LEAFLETS										
CHATEAUD 2	92 92	WELLINGTON III		1	-			-	1-	1
TOURS	92	WELL DIGTON III	12	-		1	-	2		+
	ye in	1+2-1-1-1				- ALCONDANS -				- C
LEAPLET TOTAL	-		3	-2	-	1	-	-	-	0.
TOTAL.	S . M .)	and the second second	9	6	2	1		-		NO
					2	unus	SUL			

LOST SECRET

NIGHT RAID REPORT NO. 385.

COPY NO.

BOUBER COLDIAND REPORT ON NICHT OPERATIONS 27/28th JULY, 1943.

HAIBURG : DUISBURG : HINELAYING : LOAPLETS,

SULLARY

EURG.

787 aircraft were despatched to Hamburg, to follow up the remarkable attack elivered three nights earlier. Weather conditions wore again good over the city, tich was clearly visible despite a smoke haze rising to 20,000 ft. Another coptionally concentrated attack was delivered, causing enormous damage. This we the districts of St. Georg, Billwarder Ausschlag and Grasbrock suffered most svily. dilfDOW was used, and the loss of 17 aircraft out of a force of this to was again well below average. 4 enomy fighters were destroyed.

isburg.

3 Hosquitoes were sent on a harassing raid against Duisburg. 2 attacked town, but the third did not return.

claying

5 Wollingtons laid 9 mines in the Elbe estuary. A sixth returned carly.

flots

9 Vellingtons and Vhitleys, out of a force of 11, disporsed leaflets over ris, Orleans and Dreux. All roturned safely.

ther Foracast.

Hidnight frontal positions:- (1) cold from 50°H. 07°E. to 55°H. 04°E. to to Bristol Channel, becoming (2) warm to Shannon.

Bases:- Cloud in several thin layers near the front, probably dissolving. bases fit at dusk, with broken strate-cumulus above 2,000 ft and mederate to divisibility. East Groups fit for return; i Group doubtful. Diversions to ining Groups and E. Scotland.

Gormany:- N.W. Coast: small amounts of thin medium cloud. Inland to 50°N. idual convuction cloud, disporsing after midnight. Hamburg: probably cloudless, "t from cirrus above 25,000 ft. Hazy. Route: thin and well-spaced layers of hum cloud between 12,000 abd 20,000 ft disporsing towards German coast.

E.W. France :- Brokon layor cloud at low and medium lovols.

HALBURG.

of Attack

 $\frac{R_{outo:}}{5430N/0700E} = \frac{540N}{1025E} = \frac{5342N}{1025E} = \frac{5320N}{0930E} = \frac{5420N}{0700E}$

liothod.

- (a) T.I. yellow routo markers 54181/08405 by 9 of the blind markers, backersup by 4 of the recontrers and 14 of the backers-up.
- (b) T.I. yollow routo markors 53521/10253 by 6.of the blind-markors, backed up by 2 of the recontrors and 6 of the backers-up.
- (c) 25 Blind-markers to mark target, by H2S only, with T.I. yellow.
- (d) 49 Backors-up to aim groen T. I. at contro of yelldw T.I. concentration with an overshoot of 2 sees.

- 2 -
(e) 11 Recentrers spread evenly after Z+15 to drop green T. I. on
H2S, otherwise to not as backers-up.
T.Is. visible (yellàw and green).
(g) T.I. yellaw route markers 5340N/0837E by 5 of the blind-markers backed up by two of the recentrers and 13 of the backers-up.
8. Timing Zoro Hour: 0100 hours. Poriod of Attack:0057 - 0145 hours.
Blind Hartora 25a/c at (2-3)
Backers-up. Recentrers liain Force
(Z+2) + (Z+3) : 6 a/c (3 per min) 1 c/c at:-(Z+4) - (Z+7) : 8 a/c (2 per min.) (Z+15) 1st wave (Z+2) - (Z+9) 105(Z+18)
(Z+8) = (Z+41): 34 a/a $(Z+20)$ 2nd wave $(Z+9) = (Z+16)$ 105 (Z+23)
(cltornatoly at 1 per min. and $(2+25)$ 3rd wave $(2+46) - (2+24)$ 113 2 per min., except at times of $(2+28)$
recontrors). $(2+30)$ 4th wave $(2+24) - (2+31)$ 111 (2+42) 1 a/c (2+33)
(Z+35) 5th m.vo (Z+31)-(Z+38) 111 (Z+38)
(Z+40) 6th wave $(Z+38) - (Z+45)$ 108. 653
9. Bomb Londs.
Blind Herkers
4 Lanc:- 2 T.I. yellow LB + 1 T.I. yellow) 8 Lanc:- 3 T.I. yellow LB + 1 T.I. yellow) + 1 x 4000 H.C. + 3 x 1000 ir 3 Lanc:- 2 T.I. yellow LB + 2 T.I. yellow) + 1 x 4000 H.C. + 3 x 1000 ir 11.C. in
8 Hal:- 3 T.I. yellow LB + 1 T.I. yellow) + 5 x 500 L.C.+ 1 x 1000 2 Hal:- 2 T.I. yellow LB + 2 T.I. yellow) C.P. (LD)
Recontrors and Backors-up
20 Lanc:- 1 x 4000 H.C. + 3 x 1000 G.P. (LD)) 15 Hal :- 6 x 500 H.C. + 1 x 1000 G.P. (LD)) 6 Stir:- 5 x 500 H.C.) + 1 T.I. yellow LB + 2 T.I.
19 Lanc: 1 x 4000 H.C. + 3 x 1000 G.P. (LD)) groen LB + 3 T.I. green - 2 1.I. groen LB + 3 T.I. green.
10. Tactics. <u>INDON</u> was to be used. Dropping rate: one bundle cor minute. Zone of dropping - 5427N/0735B back to 5415N/07153.
Sortion
11. (a) No. of aircraft dospatched
(sicknoss of crow 1) (collided with British a/c. 1) (c) " " aircraft missing
°also attackod primary.

athor Exporienced

2. Bases:- Fit all night, with small amounts of layer cloud and moderate sibility. Fog and low stratus affected S.W. of 91 Group by 0300 and covered st of 91 and 92 Groups by dawn.

Route:- Huch layer cloud in W. North Sea, increasing to 10/10ths in contal belt about 05°E, mainly in layers to above 20,000 ft., with occasional clid patches of cumulo-ninbus. Some reports of slight static and rime. Z. of E., variable patches of layer cloud, dispersing towards German coast. catrails between 15,000 ft., and 20,000 ft. in frontal zone. 5.C

Hamburg:- Small amounts of thin cloud, with much smoke haze to 20,000 ft. moon. Wind at 20,000 ft.: 240%/15 m.p.h.

aht Photographic Evidence.

4 +	14 155		
No. of	photographs en	cominod	
		(plotted within 3 miles	
		(plotted outside 3 miles	
	and a straight and the second	and a second secon	
No. of	photographs sh	lowing fire tracks only	
		(plottod within 3 miloa	
	8-1 C	(plottod outsido 3 miles	
No. of	aircraft ropo	ting attack	
a u		nated from photographic cvidence,	
	toh	have harbed mithin 2 miles of the	
		we bombed within 3 miles of the	
			į.

rativo of Attack

Between Zero - 5 and Zero, 15 salvess of Yollow T.I. were dropped by the lind Larkors which, except for two or three strays, were exceptionally well meentrated in the Billwarder district from 1, to 3 miles E.S.E. of the aiming int. The Main Force were early on the target; by Zero + 2, 87 aircraft had mbed, end a good concentration was building up around the Yollow T.Is., with a ttle scattered bombing to the north and south.

The proliminary marking finished at Zero + 6, after which almost all the mbing was aimed at the Green T. Is dropped by the Backerc-up. By Zero + 12, age fires were burning in the Billwarder - Ausschlag district, and the condiary carpet had spread as far westward as the central city area and as far with as the suburb of Hamm, on the eastern outskirts of the city, and St. Georg i Unlenhorst adjoining the eastern side of the Aussen Alster. As the raid agressed, the bombing drifted further eastwards and, by Zero + 20, the main area burbing was controd 31 miles due east of the aiming point. There was little idence of creep-back, although a few isolated sticks of incendivies Bell between and 10 miles south of the target.

7 Reconneissance

Reconnaissance photographs covered nearly the whole city of Hamburg. Here in half the total area was obscured by cloud, smoke or shadow, but it was evident at onormous damage had been caused, especially in the districts of St. Goorg, "Ilwarder Ausschlag and Grasbrock. In St. Goorg, particularly, searcely a
ilding escaped unscathed, and in both that district and Billwarder Ausschlag Sige to commercial and industrial property was on a phonomenal scale. The Illowing works are known to have been hit: Ebane Asphaltworke A.G. (priority 1+), snamia Ossag Mineralcelworke A.G. (priority 1), H. Sieg, Altona (metal and industrial Billwarder Ausschlag Ausschlag). Sub-station Bloctricitateworke, Hamburg Amerika Linio quipment stores), Norddoutsche Colmunication A.G., Hansa Hotorenfabrik, "deutsche Grassborzinkere and Verzinnerei, Iven Hansen (textiles), the railway ver station, Hormann Michaelsen (iren and stoel castings), the town gasworks and

two tran dopots.

17. Demage to municipal and residential property was oven more severe, nota: ou to the main railway station, Holsten Str. railway station, the navigation set: ar the privincial appeal court, the institute of tropical hygicne and the goods he station at Altona.

25

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26

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18. No account has here been taken of damage caused in provious raids by bho R.A.F. and U.S.A.A.F.

Alternative Targets

19. 4 aircraft resorted to alternative targets, in the areas of Kiel, Rendsh ai Neumunster and St. Peter's Head (in N.W. Germany). 2 aircraft which attached int primary target also dropped bombs 5 miles N.W. of Hamburg and 10 miles R. of Wesermundo respectively.

Special Equipment

20. H2S:-70 Y-aircraft were despatched; 25 blind-markers, 11 recentrers and 34 Main Force aircraft, using H2S for purely navigational purposes. 21 a the blind-markers reported attack, but 6 of these dropped no T. I. 9 aircraft markors blind on H2S, and 4 others bombed on H2S with a visual check. The Blind-markers were well timed and finely concentrated 12 to 3 miles B.S.E. of aiming-point. All but one of the 11 recontrors attacked. 7 dropped markers . H2S, oithor blind or with a visual chook. The other three found their 1 equipment unserviceable. 28 Main Force aircraft reached the target with their ſ sets in order. Ono Y-aircraft was lost. ſ

21. <u>GEE</u>:- The Eastern Chain operated on the Wyoming frequency throughout, and he on the Arizona frequency from 0000 to 0200 hours. 266 aircraft received GEE fixes over the target and the average range was 463 mil.s. The jamming on the Wyoming frequent: was unchanged, and there were many reports of morse interference, similar to the offects of TINSEL, on the Arizona frequency. All signals were stopped, C being the weakest.

Befenceg

. .

22. Plat and Searchlights The general opinion of crews indicated that enough ground defences at Hemburg had been increased since the previous attack. The usual decrease in intensity during the attack was reported but the number of aircraft damagod by flak was fairly constant throughout the raid. Luch of the flak was considered to be of barrage form. Some reported instances of aircraft hold in searchlight cones but not engaged by flok suggest searchlight croperation with fighters. As on the previous WENDOW raids, searchlights appear to have experienced considerable difficulty. On the way in the bombers found the Neumunster-Kiel area well defended, and on the return the defences at 29 aircraft were damaged by flak, Bremerhaven were active.

25. Fightors. The R/T traffic intorcepted on this night was, from some areas of a different nature from that which is usually heard. Instead of the usual brief instructions as to course and height, ground stations were heard to give something of a running commentary regarding the course and height of British aircraft, and information about their being helf in searchlights. The conclusion to be drawn is that the enemy had decided to use a system of much looser control of his fighters when interferences from WINDOW made it nocessar? In the traffic heard there were several direct references to the fighters flying without ground control.

25. Some remarks indicate that the encay was placing considerable reliance on the use of A.I. It would appear therefore that WINDOW was not having as serious an affect on the encay A.I. as had been hoped. The number of night fighters heard by wireless Intelligence on this night was 80, in the traffic of 26 of which British aircraft were montioned. The total number is something less than on the first Hamburg night but the number in whose traffic British aircraft were montioned is about the same. 25. Crows reported 82 interceptions (10.4% of sorties) of which 15 developed into attacks (1.9% of sorties) and in a further 29 cases the bomber opened fire. 3 interceptions on the outward journey, 2 of them attacks, occurred outside the WINDOW area. Fighters were very active over the Rendsburg and Spieka areas. It may be significant that markers were dropped near 3pieka on the homeward route. 4 interceptions occurred at the turning point on the way home near Wenzendorf and 7 over the North Sea.
26. The aircraft bombing in the last part of the attack experienced a larger

proportion of the total encounters, although loss aircraft bombod in this period. There were few encounters in the target area in the earlier part of the attack and only one aircraft, a Wellington, had an encounter during the period when the Stirlings bombed. Interceptions on route were most frequent among the aircraft of the later waves but this was not so marked as it was over Hamburg, nor was the reduction of fighter activity during the Stirling wave so noticeable.

Casualtios

Analysis of the reports of crews relating to aircraft shot down indicates that 40 aircraft more soon hold by soarchlights bofore being destroyed. Of these it is likely that 5 wore shot down by flak and 3 by fighters. Outward losses due to flak probably occurred at St. Poter, Rendsburg, Hoido and over the Ploner Lake while fighters wore seen to destroy one at St. Peter, one at Tonning and one at Noumunster, where another aircraft was also seen shot down, but the cause is not In the target area flak probably accounted for 3 and fighters for 2 knom. aircraft. 2 homobound bombors were seen shot down by fighters at "esermunde and over the North Sea, where another mircraft was seen to fall in flames. fic observations of crows suggest that enemy fighters were destroyed at Rendsburg, Nourunster and Hamburg. 2 oncey aircraft woro claimed destroyed, one at Rendsburg and one at Hoide, and 5 were claimed as damagod at Rondsburg, near Neurunstor, south wost of Hamburg, off Cuxhavon and out to sea some 60 miles off Bremerhavon. It scous probable therefore that 4 were destroyed and a further 3 drmagod.

28. One aircraft engaged by an enemy fightor 20 miles west of Wenzendorf while outbound made a forced landing in Engladd.

DUISBURG.

t 29. 3 P.P.P. Hosovitoos were detailed on a harassing raid against Duisburg. rs 2 bombed the primary, and roturned undamaged. The third was missing without at trace.

L'INELAY ING

30. 5 Wellingtons, out of a force of 6 despatched by 6 Group, laid 9 mines in the Elbe Estuary. All returned undamaged.

Loaflots.

. 3!. 9 Wollingtons and Whitleys, out of a force of 11 dospatched by 93 Group, dispersed leaflots over Paris, Orleans and Dreux. Accurate flak was encountered from several points, and 3 aircraft were hit; but none was lost and no casualties were sustained.

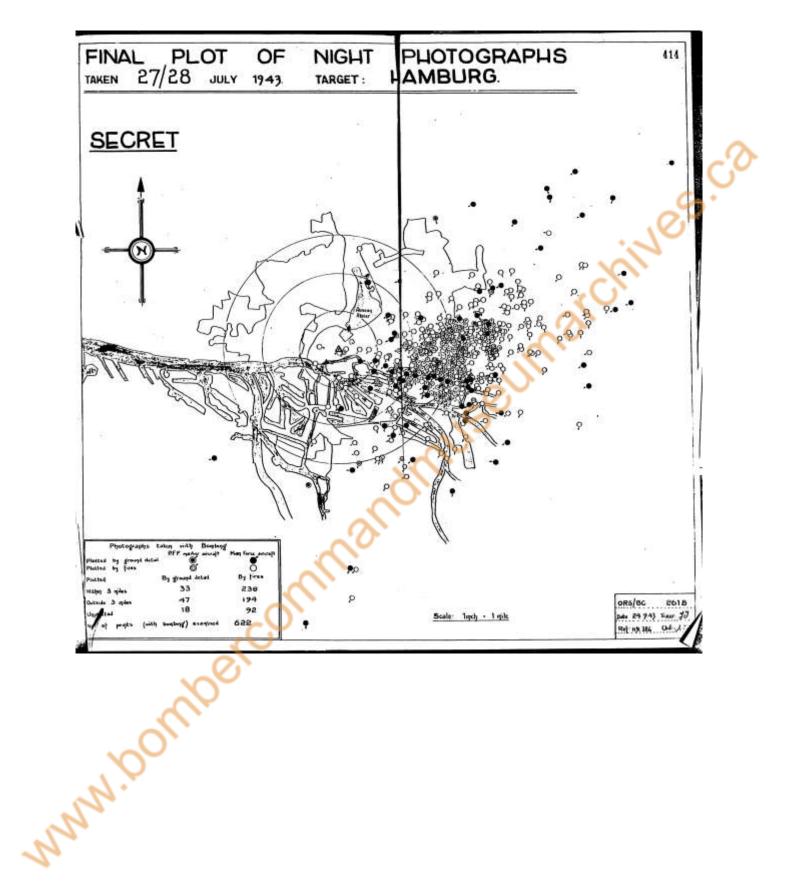
111/PVD. 20/S. 26342/3/ORS. 11th October, 3943.

4

TANCET	GROUP	TYPE	SOUTILS-	ATTAC	EFCHTINC .	ABORALAS	SORTLES	HRS"		DAMAGE	1	INTER	EPTIONS	Τ	JESSULTS
				PRIM.	ALT.	OVER IN. TERRIT.	NOT OVER		· · FLAC	PICHT	2/4	ATTACEOSI	NOT AT	12-	Toos of Boobs
C) BURG		STIR.I.I STIR.III EAL.II & V HAL.Ia LANC.I	4 2 2 2 2 5	4 2 2 2 5							18			(P) (A) (B)	H.E. Inc. 1110.9 1245.1 10.3 5.9 29.9 31.2
	8 MAIN PORCE	LANC.III STIR.I. HAL.II & V HAL.I. LANC.I. LANC.III	4 5 4 6 2 10	4774620	- - - - - - - - - - - - - - - - - - -			2	1 ACH4					(P) (A)	Boavy Bomba 8,000 4,000 7 923
- 40	· · · ·	LANC. I. LANC. III. WELL. X.	23 90 41	20 88 39	- 1	i E i i	2 3	3	1 2	1 40	1,10	1	10 3	(2)	·
	3	STIR. I STIR.III LANC.II	5 102 17		1	1	242	ī	ZE + 4	t ĀC	1_AC	ī	1.0.3	2	0.4
	4	HALLIA HALLIA WELLX	110 · · · · 39 15	102 36 15			3	3	3	12+1 AC.	1	6 - -	6		1
		LANC. III	36 · · · · · 119	- 30 111	1.5	· :	20	4 2	. 2	1 10	40	22	4		
	6	HAL. II & V HAL. In WELL. X	50 10 18	45- 10 12			. 3		:	1	2 AC	. :	9.21	Ş	P and [
RALBURG	TOTAL	1	797	722	1+20	5	42	17	2E+ 1/C+26	1B+4	28+3.4C +1	15	67		1

° Also Attacked Frimary.

Image:	JPRUL ALT. OVER EX. NCT OVER PLW PICHTESS NOT ATTACKED NOT HARBURG TOTAL 787 722 4 + 2 ⁵ 2 42 17 22 + 12 + 28 + 4.62 15 67 DDISUBJEG 8 P.P.P. LOS-LIV 3 2 - <td< th=""><th>4</th><th>GROUP</th><th>TYPE</th><th>SORTLAS</th><th>NC AT</th><th>REPORTING</th><th>ABONTIVE</th><th>SOR7185</th><th>HISS.</th><th></th><th>DGLAGE</th><th></th><th>INTER</th><th>C.ITTIONS</th><th>RES</th></td<>	4	GROUP	TYPE	SORTLAS	NC AT	REPORTING	ABONTIVE	SOR7185	HISS.		DGLAGE		INTER	C.ITTIONS	RES
Internation Internation <thinternation< th=""> <thinternation< th=""></thinternation<></thinternation<>	INTERPORT B LOS: IV 3 2 - - 1 -				the second	PRIN.	ALT. AREA.					PICHTER	NOT BA	ATTACKED	NOT	
P.P.P. LOS-LIV 3 2 - - 1 - - - - BOLLBELRO 7:0 TAL 790 724 4:+20 2 42 18 22:+12:+ 28:+ 15 67 HORELAYING 6 WELL.X. 6 5 - - 1 - - - - - HORELAYING 6 WELL.X. 6 5 - - 1 - - - - - HANDLESTS BOR 9 WHITLEY V. 2 2 - - - - - - 9 minos HANDLESTS BOR 93 WELL.X. 4 4 - - - - - - BEALANS 93 WELL.X. 4 4 - - - - - - - LEXANS 93 WELL.X. 4 4 - - - - - - - - LASAPLET 10 5 3 - - 2 - 2 - - - - LASAPLET 11 9	P.P.P. LOSALIV 3 2 - - 1 - - - - BOLLBITRO 700 724 4.+ 20 2 42 18 22.+ 12.+ 28.+ 15 67 INVELATING 6 WELL.X. 6 5 - - 1 - - - - - INVELATING 6 WELL.X. 6 5 - - 1 - - - - - INVELATING 6 WELL.X. 4 5 - - 1 - - - - 9 9 INVELATING 6 WELL.X. 4 4 - - - - - - 9 9 INVELATING 9 WELTLEY V. 2 2 - <td>HALBURG</td> <td>TOTAL</td> <td></td> <td>. 767</td> <td>722</td> <td>4 + 20</td> <td>2</td> <td>42</td> <td>~</td> <td>1/10+</td> <td></td> <td>4//</td> <td>15</td> <td>67</td> <td></td>	HALBURG	TOTAL		. 767	722	4 + 20	2	42	~	1/10+		4//	15	67	
ITERCLAYING ITERCLAYING ITERCLAYING ITERCLAYING ITERCLAYING ITERCLAYING 6 5 - - 1 - - - - 9 minos ITERCLAYING 9 WELL. X. 6 5 - - 1 - - - - 9 minos INSUX 93 WELTHER V. 2 2 - - - - - - - 9 minos INSUX 93 WELTLER V. 2 2 - - - - - - - - - 9 minos INSUX 93 WELTLER V. 2 2 -	ITERCLAYING 1 KC 4 KC 4 KC 4 KC + 10 ITERCLAYING 6 5 - - 1 - - - 9 minos INFELAYING 6 5 - - 1 - - - - 9 minos INFELAYING 93 WEITLEY V. 2 2 - - - - - 9 minos INFELAYING 93 WEITLEY V. 2 2 - - - - - - - - - - 9 minos INFOLY 93 WEITLEY V. 2 2 - <	BUI SBURG	8	LOS . IV			1.	1		1.			-	1.0	-	
TALKE R. 6 WELL X. 6 5 - 1 - - - - - 9 mines DESUX 93 WELTLEY V. 2 2 - - - - - - - - 9 mines DESUX 93 WELTLEY V. 2 2 -	TILBE 9. 6 WELL X. 6 5 - 1 - - - - 9 wince DESUX 93 WELTLEY V. 2 2 - - - - - - 9 wince DESUX 93 WELL X. 4 41 -	B-0.1.B:1	R.G	T A .	790	724	4.+ 29	2	42	18	1 AC		4 IC		· 67 · · ·	4
Approximation 93 WHITLER V. 2 2 - - - 100 - <td>Approximation 93 WEITLER V. 2 2 - - - 1AC -<td></td><td></td><td></td><td>6</td><td>5</td><td>-</td><td>20</td><td>1</td><td>-1</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>9 minos</td></td>	Approximation 93 WEITLER V. 2 2 - - - 1AC - <td></td> <td></td> <td></td> <td>6</td> <td>5</td> <td>-</td> <td>20</td> <td>1</td> <td>-1</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>9 minos</td>				6	5	-	20	1	-1	-	-	-	-	-	9 minos
PARIS 93 MELL. Lc 5 3 - - 2 - 2 - - - L'B A P L E ? ? 0 '. A L 11 9 - - 2 - 10C? - - - L'B A P L E ? ? 0 '. A L 11 9 - - 2 - 10C? - - - 'T'0 ?? A L 807 738 4+2° 2 45 18 22+ 12+ 20+ 4/C 15 67 67	PARIS 93 MELL. Lc 5 3 - - 2 - 2 - - - L'E A P L E ? ? 7 0 '. A L 11 9 - - 2 - 10.02* - - - L'E A P L E ? ? 7 0 '. A L 11 9 - - 2 - 10.02* - - - ''T'0 '? A L 807 738 4+2° ? 45 18 2E+ 1E+ 2B+ 4 15 67 JAC+ 4/0 1/0+1 15 67 28 4 15 67		0.0100000							-	1/1		-	-	-	
LE & P LE T T O'. A L 11 9 2 - 1/C+	LE & P LE T T O'. A'L 11 9 2 - 1/6+	BREAK S	93	WEEL, X. · · ·	4 .	• 4		-	-	-	-	-		-	-	
LEAPLEIT TOTAL 11 9 2 - 12 2	LEAPLEIT TOTAL 11 9 2 - 12 2 - 12	PARIS · ···	93	WELD. Ic	5	3	-	-	2	-	2	+	-	-	-	
also Attacked Frimary.	also Attacked Frimary.	GEAPLE	1 10	7 A.P	11	9	100	-	2	-		-	2 ¥ .	-	-	1.8
also Attacked Primary.	also Attacked Frimary.		0.7 A L		1 807	738	4+29	2 .	45	18	340+	15+ 4/0	2B+ 4 AC+ 1	15 .	67	14
RAID TRACK NOT AVAILABLE	RAID TRACK NOT AVAILABLE			S	gar.	- 1 -				leo At	tacked	Primary	•			
			~				RAID) TRACI	K NOT .	AVAI	ILABI	E				
		X	2													
N.	N.	1. 1.	2													
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N.	\mathcal{L}	s).	\$ _													
N.	2.	J.	\$ _													
RAID TRACK NOT AVAILABLE	2.	J.	<u>ې</u>													



COPT NO. 16

BOMBER COMMAND REPORT ON NIGHT OPERATIONS 28/29th. JULT, 1943.

A to a grant water and

water a chief a contract

100

Dusseldorf: Hanburg: Minelaying: Leaflets. the second s

Disseldorf: Honburg

7 Mosquitoes of P.F.F. carried out harassing raids on the towns of Dusseldorf and Henburg, where fires wore still burning from previous attacks. All returned undaringed. We have a statut. autom.

<u>Hineloying</u> 16 Stirlings and Lancasters, out of a force of 17, laid 94 mines off the Frisian Islands. One was damaged by light flak from a convoy, but all returned to base . .

Leaflets

Sty = 1.41 3. 3 Wellingtons, out of a force of 4, dispersed leaflets over Cherbeurg, Granville and St. Male without loss. 2 Constantin

Weather Porecast

Midnight frontal positions: - (1) cold from 5701. 15°E to 54°T. 05°E., 4. becoming (2) wern from 54%. 05°B to 5421. 002°E. (3) occluded from 59°H. 00° to 542 N. 002 W., becoming (4) cold to Bristol Chunnel to 49%. 10°K. etc.

Bases: - Local thunderstorns along cold front. Cloud will break and lift to the H.W., but may persist to the S.E. Pog will form towards down in S.W., with stratus. 8 and 3 Groups: fit until 0400, with wisibility 2 miles, then local fog. Beening Schertzer 🕰 🔨 - general street en een

Germany: - Residual convection cloud inlaw, dispersing to shall amounts after nichight. Hanburg: half-covered with main cloud. Ruhr: clear skies. 1.4.4 A. 1. 4 24

Prance: - is Germany.

Frisians: - Well broken high and medium cloud, visibility probably 1-2 miles, but risk of fog patches. and the second of

Sorties

6.

Hinelaying Leaflets Bombing

		-		
	(a)	No.	of	aircraft despatched4
	(2)			" nowling miname anon 71
- 63	(c)	а .	я.	abortive sorties (technical defcct).0 11 aircraft missing00
	(d)		17	aircraft missing 0 0
	(e)	No.	of	mines laid

Weather Experienced

Dusseldorf :- No cloud, Much haze. Good visibility.

25

Hanburg .- No cloud, apart from 3/10ths. cirrus at 24,000'. Haze and sucke. Good visibility. 8 24 4

Frisians: - No cloud. Thick hase. Variable visibility - good to poor. - 9 2. Alla

N.V. France:- 3-4/10ths. stratus. Hazy.

No noon during operations./Energy Dofences

80. au

Energy Dcfences

A Same and

Controlled fighters very setive in 2. ... Cornery and Holland but only a 7. was sighted by our bonbers, a Ju.38 over Terschellin". ... the both Hanburg and Dusselderf, moderate heavy flak was accurately predicted at heights above 25,0. ... incraft were held in scarchlight comes at both targets, one for 4 minutes on Dusseldorf at 29,000'. Minclayers encountered flak fran the usual points on the Frisian Islands, and one sustained ainor Comage from a convoy of 20 ships in energy waters.

Casualties

· · · · · · · 1.08 8. .part from one instance of minor dames from light flak, all our ai 7777 returned undersiged.

.....

122

.117

. . .

HUV/JT. BC/S. 26342/1/ORS3. 28th. September, 1943.

1.12

TARGET	GROUP	TYPE	SORTIES		LIPORTING	BOR	ORTIPS	HISEL K	8-2 Care	LCE		DADO SEA	TIONS	RESULTS Tons of Bombs
				PRIK.	.LT. .SE.	OVER INFIG TERR.	NOT OVER		FL-K	FIGHTER	1107 E/	atla:- ED	NOT _PL_CK- ED	H.E. Inc.
USSILLORP	8	Mong. IV	3	3	-	-		-	4 .	-		-		P. 2.3
H.MEURC	8 1997	Vosq.IV	4		-	-	-	-	-			-	-	P. 3.1
DOMESTIC TOT	J.	0	7	7	-	14 C	-	-	-	-	-	-	-	
TRISLAS	3	Stir.III Stir.III Lanc.II	3 12 2	3 11 2	:	-	1	-	į .		-	2	-	16 mines 66 mines 12 pines
IDNEL YING	LIOT		17	,16	-	-	1	-	1	-	-	-	-	94 nines
LEAFL'ITS RM007S	92	Well.III		-	-		1	-		-	-	-	-	
GPWILLE	92	Sell.III	1	1	-	-	-	-	-		-	-	-	
ST. LLO	92	well.III	1	1	-	-		-	-	-		-	-	
CLURCOURG	92	Well.III	1	1	-	-	1			-	-	-	-	
12.071.37 707	aL,		4 -	3	-		1	- 1	-	- 3	-	-	-	
TOTAL			28	26	-		2	-	1	-	-	-	-	1

DESSLIDEST: HUBBLD: Minelaying: Lonflets: 28/29th. July, 1963.

COPY NO. 16

BOMBER COMMAND REPORT ON NIGHT OPERATIONS 29/30th. JULY, 1943.

HAMBURG: DUSSELDORF: MINELAYING: LEAFLETS:

SUMMARY

LUBURG

1. The third of the great July attacks on Hamburg was delivered by 699 aircreft, out of a total force of 777. The target was again clear of cloud, although obscured by smoke from the many fires still burning. Bombing was pore scattered than in previous attacks, but a great weight fell in the builtp area, causing extensive devastation in the N.E. districts, which had formerly ascaped serious damage. 27 bombers were lost - a higher figure than the porresponding ones for earlier WINDOW raids, but still remarkably moderate for so important a target. 3 fighters are known to have been destroyed, and 2 others were seen to orash in flames.

Jusseldorf

2. 4 P.F.F. Mosquitoes carried out an uneventful harassing raid on Dusseldorf.

Winelaying

4 Wellingtons, out of a force of 6, laid mines in the Elbe estuary at the

eaflets

. 12 aircraft dispersed propaganda leaflets without loss, 9 over Italy and 5 over France.

eather Forecast

Feeble cold front at midnight from 58°N. 12°E to 55°N. 11°E. to 50°N.00° to 48°N. 05°W.

Bases:- Mainly fit all night, with visibility above 2,000 yards, except Fry near the coast and in smoky localities. Iooal thunderstorms in evening. Of patches towards dawn in E.

Germany:- Little cloud inland. Industrial haze. Hamburg and Ruhr: Call amounts of cloud, apart from cirrus above 25,000'. Little or no surface ind.

France .- Little cloud, Fog patches over W. cosst.

N. Italy - Little cloud. Visibility 2-4 miles.

HAMBURG

Lan of Attack

Route:- 5430N/0700E - 5403N/0944E - TARGET - Turn right - 5323N/0938E -5420N/0700E.

Method:- Ground Marking.

(a) Route markers T.I. rod, augmented by one flaro red, as an additional istinction, were to be dropped at 5445N/0850E by 7 of the blind markors, backed by 13 of the backers-up.

...../(b) 25 blind markers

	\$; ;						2.						trans	
		(ъ)	25 bl	ind mark	crs v	roro ta	o mark	the ai	ning poir	nt with	T.I. yo	llow.	;+10),	
		(c)							arking wi			with 4	ne ot	
			(ii)	sec. ove Later ar scc. ove	rival	s to	aim at	the co	ntre of	the gre	en T.I.	with 2	rtie	0
		(a)					T.I. g	rcen o	n H2S if	servic	cable.			C'O
		(o) [·]	Moin	Porce to	aim	at ce	ntre of	all g	reen and	yellow	T.I.		0	b .
	0848E	(f) on the	Route route	markers home.	T.I.	red	and one	flaro	red were	to be	dropped	at 5340	RY (
	8.	Tinin	ø	Zero hou	r 004	5 hou	rs.	Per	iod of A	ttack C	042 - 01	32 hours		
	14 2.44	Blind	Marke	rs 25	ø∕c	at (Z	- 3)		51		5	S		
	A/C pe	r min.	_	al	Ē	lecent	rers			Moin	Force	. No.4/0	isthe	
	(2+1).		•••••	6			2)-(2-4		1st.wave		-(Z+9)	110	tch	
	(Z+2). (Z+3),	(2+4)		2,2		at i	c per r nterval	s of	2nd.wave 3rd.wave	e (Z+17)-(Z+25)	117	7	
	(2+5), (2+7).	(2+6)		2		Dack	ers-up.			c (2+32	2)-(2+32) 2)-(2+40)	104		
	(Z+8), (Z+11)	(2+10	»			-	12 a/c		6th.wav	c (Z+40))-(2+47)	108	Te	
	(Z+13) (Z+16)	, (Z+1		·····1,1	.2.1.			~				004	40.	
	(Z+21) (Z+25)	· ·		····•		23	a/c at	2+3	<u>.</u>				on,	
	(Z+31)	, (Z+3				- 36	8/0 at	Z+20					1,1	
	(Z+36) (Z+41)		9) 5)	<u>1</u> 49	"	6	2						<u>zh</u> 1	
	9.	Marke	rs Car	riod	~	$\langle \cdot \rangle$								
		Blind	Marke	ra	0				٠					
		13 La	nc. +	2 Hal. :	1 1.	I. re	d LB + steady	2 T.I.	yellow)	(i) + 3	T.I. yel	low + 1		
		4 Le	nc. +	6 Hal. :	2 1.	I. ye	llow LE	+ 3 T	.I. yollo	ow.				
		Recon	trors	and Back	ors-u	P								
		21 Lo 2 Lo	nc.+ 1	0 Hal. :	2 T.	I. gr	cen + 3	T.I.	green LB.					
				Hal.	1 T.	I. ro	d LB +	+ 3 T 1 flar	.I. yelle o red sto	ady +	2 T.I. g	reen LB	+ 3	
	~				T.I.	greet	n.		green Li				4	
	V.			ry H.E.						9 74352353 (!			Ĩ	
	10.	Tact	ios	53							22			
N	0735E	(a) to Tor	WINDO	H To b back t	e dro o 541	pped a ON/07	at the 30E.	rate o	f one bur	dlo po	r minute	from 54	2714/	
	for a particular for a	portou	or ap	101. 20	ad na	Mosqui to a	itoes w	encry	drop T.I fightors.	. yell Cro	ow at 53 ws to be	33N/0733 warned	B to	
	the wil	(o) nd fou	Wind nd, bet	8 of t con las	ho Bl t GEE	ind m fix a	irkers and fir	wore to at fix	by H2S.	by W/T This	, as eas informa	rly as p tion was	to be	
				8						/rot	ransmitte	od to th	e	

transmitted to the Main Force, at one of the following times: (2-10), (2), +10), (2+20).

(d) <u>Ground Defences</u> Non-markor P.F.F. carrying 500 MC bombs were to use me of these to discourage the defences on the way in.

ther Experienced

rties

. Bases :- Clear till 0400, with moderate visibility; then a few mist and fog tohes.

Route:- Variable amounts of cloud, 10/10ths. at times, tops 3-5,000'. ry little cloud beyond Denish coast. Hazy.

Winds: at 8-10,000', 260°/15 - 20 m.p.h. at 17-19,000', 270-290°/30 m.p.h. at 22,000', 270°/40 m.p.h.

Hamburg:- No cloud. Hazy. Visibility good, but hampered by anoke. No on, Wind: at 19,000': 250-2709/25 m.p.h. Surface wind: very light, probably July.

th Photographic Statistics

No.	of	photographs examined	9
, 0		showing ground detail,(plotted within 3 mls37)	
		(* outside 3 mls77)14	3
		(umplotted	
		" fire-tracks only. (plotted within 3 mls170)	
		(" outside 3 mls247)47	5
		(unplotted	
		aircraft reporting attack	9
п		estimated to have bombed within 3 miles of	2
	•	aiming-point23	3
		• • • • • • • • • • • • • • • • • • • •	5

Tative of Attack

The attack was opened by the blind-markers, 16 of which dropped their T.I. between zero-8 and zero + 1. Although the timing was good, the adard of accuracy was low and the yellows were scattered over a wide area on the stern side of Hamburg, with the mean point of impact (M.P.I.) about 2-3 miles due it of the aiming-point. The backers-up commenced their attack at zero - 2, most the early ones over-shooting the M.P.I. of the yellows as instructed, and dropping ir greens 3-3½ miles E.S.E. of the aiming-point. The main force bombing was at st principally concentrated in an area 3 miles E.N.E. of the aiming-point, ightly short of the main concentration of markers. There was also scattered bing in the districts lying immediately to the cast of the Aussen Alster, but 7 little S. of the Elbe, or on the western aide of the city.

There is little evidence to show where those backers-up and recentrers which "seked after zero + 7 dropped their T.I., but they seem to have been successful in "Unting any extensive backward drift of the attack. The bombing remained centred (about I miles P.N.P.

...../about 3 miles B.N.B.,

about 3 miles E.N.E., although tending to spread over a larger area. By som , an area of 24 square miles was covered with incondiaries.

Day Reconnaissance

T

16. A reconnaissance sortic flown 2 days after the attack found the town covered with smoke that no useful information could be obtained, except that now and very extensive area of devastation was apparent in the N.E. of the tor Photographs taken on the subsequent afternoon showed many fires sill burning, the ambke had sufficiently dispersed for the town to be clearly seen for the time since the attack of 27/28th. July. It is not everywhere possible to distinguish between the results of the various attacks, but that now under reappears to have fallen most heavily on the N.E. and S.E. The districts of Wandsbeck, Hammerbrook, Hamm, Horn and Borgfeld were devastated, while those of Barmbeck, Steilshoop, Uhlenhorst and Winterhude had been very severely affecta No fresh instances of damage to high priority industrial plants could be ident but many subsidiary factories had suffered, including Hamburger Gesworke, Ham Margarine Werke, Julius Tester (chemical cleaners), Heidenrich und Harbeck (machine tools), Triton Belco A.G. (rubber), Hans Havenschild (chemicals) and Kampnagel A.G. (engineering). 2 railway stations, much railway property (including rolling stock) and 2 true depots were damaged. 2 road bridges had been destroyed at Wandsbeek and many public buildings had been hit.

Special Equipment

17. <u>H2S</u> 67 Y-aircraft were despatched - 25 blind-markers, 11 recentrers and 31 main force aircraft, using H2S for navigational purposes only. 22 of blind-markers reported attack; 19 dropped markers, 17 of these on H2S. The accuracy was poor and the markers were scattered over a wide area on the E. si of Hamburg. All the 11 recentrors reached the target, and 9 released T.I., b only 6 of these did so on H2S. .21 of the 31 main force Y-aircraft reported t sets as having been serviceable through only the journey 2 attacked blindly on E and 2 others used it to check their positions at bombing. 4 Y-aircraft were 1

18. <u>GEE</u> The Eastern Chain operated on the Wyoming frequency throughout, a on the Arizona frequency from 2345 to 0145 hours. GEE was received over the target by 374 aircraft, and the average range was 463 miles. The interference was the same as on the previous night for both frequencies. The results were even better than on 27/28th. July, and all signals were strong, capecially E,

Alternative Targets

19. 4 aircraft attacked alternative targets, in the areas of Hemmingstedt (Wesselburen and Noumanster. A fifth, which went on to attack the primary, jettisoned 2 H.E. bombs near Wenzendorf after being hit by flak.

Defences

20. <u>Plok and Scarchlights</u> Flak was more intense over Hamburg than on 27/28th. July, starting strongly in co-operation with searchlights but then eas off noticeably. It was mostly fired in barrage, but sometimes predicted and sometimes against illuminated targets. The number of searchlights had been greatly increased, both on route and in the target area; an outer belt stretch in a semi-circle round the town from N.E. to S.W., and inside this, other searchlights apparently acted as fighter guides, sometimes exposing horizontall for track indicating or possibly to silhouotto attacking bombers.

21. On the outward route, the strongest defences were control at Noununstor, with lighter support to the S. of Kiel. Homobound bombers encountered intense fire in the Spieka-Nordholz-Midlum area. The guns of Bremerhaven, Wenzenderf and Cuchaven were also active.

../Fighters

22. 23 aircraft wore damaged by flak, 15 of these in the target area.

<u>Pightors</u> 94 interceptions by energy fighters were reported, including nettacks. Roughly half of the total number consured on the honoward route, parter on the outward journey and one quarter in the target area. Most of fighters operated in a height band from 17-20,000', in which 70% of the preceptions occurred. This is explained by the new technique of limited and control which the energy had been forced to adopt. Pighters were given eral instructions regarding the course and height of British aircraft, rather a specific details to enable them to intercept particular aircraft. Some as to have landed, refuelled and taken off again - an unusual procedure, but which would be encouraged in a free-lance system. 6 aircraft were damaged fighter attack. 3 fighters were claimed as destroyed, and 2 others were publy shot down, one crashing off Heligoland, together with the bomber it was stocking, and another off St. Peter's Point.

sulties

Crews'observations suggest that 7 aircraft were shot down by flak - 6 for Hamburg and one over Bremervorde. All had previously been coned by erchlights. 11 were probably destroyed by fighters - 3 outbound over the sea rluding one off Holigoland), 4 over Hamburg, one 15 miles W. of Hamburg, one Fr Spieka, one off Cuxhaven and one at the mouth of the Elbe. Another was a to go down at Cuxhaven, but the cause is not known.

The loss percentage (3.5%) though higher than on previous WINDOW raids, mares favourably with the 6.1% average for raids against Hamburg in the previous a. Damage due to flak and fighters remains at just over one-third of the prious average. Interceptions were more numerous than in previous WINDO7 is (10.0% against 8.7%), probably because of the activity of freelance fighters, tattacks fell from 2.6% to 2.0%.

One Stirling and one Lancaster crashed while taking off, and were destroyed. body of one of the crew of a Halifax, proviously reported as missing, was picked in the North Sea by Air/Sea Rescue. The cause of this loss is unknown.

DUSSELDORF

4 P.F.F. Mosquitoes carried out a harassing raid on Dusseldorf. The target telear of cloud, and all crews saw their bombs fall in the built up area. All

MINELAYING

Wellingtons of 4 Group were detailed to lay mines in the Elbe Estuary the start of the main attack on Hamburg. Haze provented 2 aircraft from tifying their target, but the remaining 4 each laid 2 mines in the correct area.

LEAFLETS.

9 Lancasters of 5 Group were sent to disperse leaflots over Milan, Turin, ¹⁵¹ and Bologna. There was a thick haze over the Lombardy Plain, but all the ¹⁵¹ identified their targets except one detailed for Bologna, which dropped its ¹⁵² over Milan. 3 Wellingtons of 92 Group also scattered leaflets over the ¹⁵⁵ towns of Tournai, Douai and Ronnes. None of our leaflet aircreft sustained ¹⁵⁶ or casualties.

TARGET	GROUP	TYPE	SCRUIES		EPORTIDIG CK ON	ABORT SORT		MISS DK	DAT	25		Dirast	E.TICKS	Tons of Boxbs
-				PRIM AREA	ALT. AREA		NOT OVER ENERLY TERE		FLAK	PIGHTER	NOT E/A	ATTACK ED	NOZ ATTACK- ED	H.E. Inc.
limburg	8	Nosq.IV Stir.II Stir.III Hal.IAV Hal.IA Lanc.I Lanc.II	3 19 5 v1	200+10 5 1 3 17 5 46	-				- 5 - 1 - 0 -	1.0	£	1 1 1 1 1 2	1 1 1 2 1 2	P. 1082.1 1220.4 4. 6.3 7.5 N. 42.2 37.8 Heavy Bombs B0001b. 40001b. P. 8 311
		Stir.I Hal.ILAV Hal.IA Lanc.I Lanc.III	2 4 9 3 7	2472				1	1.1.1					<u>x</u> 11
	1	Lanc.III Mell.X	22 89 39	19 83 37	1	Ξ	2	1	1	1	1	2	265	0.5
	3	Stir.I Stir.III Lano.II	8	5 91 13	1	-	37	3	4	140	1B 1E+4	5	13	. So
	4	Hal-IIAV Hal-IA Well-X	108 41 8	94 37 8	1	1	7 2	2	3	1	18	2	26 -	
	5	Lanc-III	33	28 108	-	ī	2	1	2	i	2 1E	2	12	
41 1	6	Hal.ILAV Hal.LA Well.X		50 6 18	-	-	2 1 4	. 1	1	-		2	13	
H.MBURG	TOTAL		777	699	4+1+	2	45	27	1/10+22	3:2+3	38+18 1	22	72	

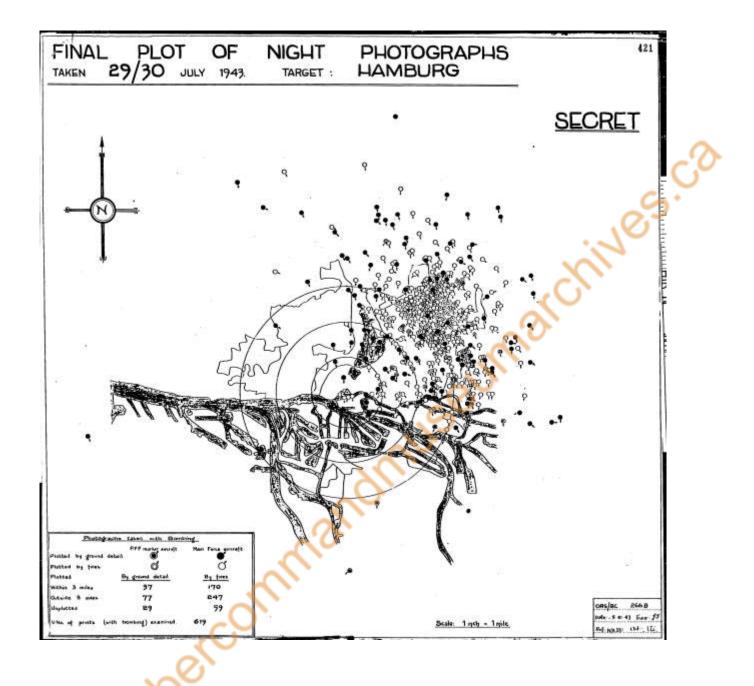
⁰ Detailed to drop decoy markers off route. # Also dropped H.E. on Hamburg. * Also attacked primary.

...../Contd:

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LARGET	GROUP	TYPS	SORTES		REPORTING		ATTR	HISSDY		LUCCE		INTERCE	EPTIONS	Tone Of Book
				PRIM.	ALT. AREA	OVER ENSMY TER.	NOT OVER EREDAY TESC.	0)	VLAK	PIGRIER	H07 E/_	ATLES- ED	NOT LTL/CK- RD	
HAMBURG 20	B.L		777	699	4+2+	2	45	27	1_@+22	3 6+3	3E+18 14C+9	22	72	
DUSSELDORP	8 2979	Mosq.IV	4	4	-	0	D-	-	-	-	-	-	• -	P. 3.1 H.E.
BOMBING TO	ZAL		781	703	4+24	2	45	27	1,:0+22	3.0+3	32+1B 14C+9	22	72	
MINELAYL-G	4	Well.X	6	4	5		2	-		-				8 mines
LEAFLETS	5	Lano.I	1	1		-	-	-	-	-	-	-	-	
TURIN	5	Lanc.III	2	1		-			- 2 -				1 -	
	-	Iano.III	1	1	-	-	-	-	C	-	-	-		1
CENO1	5	Lanc.II	1.0	1	1 2	-	-				-	1.2	1:1	
BOLOGN	5	Lano-III	2	1	1	-	-	-	-	-	-	-	0.00	
TOTAL ITAL	x		9	8	1				-		-	-		
TOURNAL	92	Well.III	1	1	-		-				-	-	-	· · · · · · · · · · · · · · · · · · ·
DOUAT	92	Well.III	1	1	-	-	•	-	-	-		-		
RENNES	92	Well.III	1	1		-	-	-	-	-	-	-	-	
TOTAL PRAN	28 + 🏑		3.	3	-		-		-				-	
E.FLET TOL	T		12	11	1	-	-	-	-	-		-	-	
T 0 T + D	0		799	718	5+2*	2	47	27	140+22	3:0+3	3B+18 1C+9	22	72	

HAMBURG: DUSSELDOLS': IDMIL.YING: Leaflets: 29/30th. JULY, 1943. (Contd:)



mm.borr

NIGHT RAID REPORT NO. 389

COPY NO. 1

BOMBER CONMAND REPORT ON MIGHT OPER-TIONS - 30/31st. JULY, 1943.

REASCHEID: Minelaying

SU.214RY

ASCHRID

A force of 264 heavy bonbers and 9 OBOE Nosquitoes carried out a successful rundmarking attack on Remacheić. Example was severe throughout the town, and the central town area near the railway station the (evastation was so complete at roads and the foundations of buildings were almost indistinguishable. 15 iroraft failed to return.

inelaying

. 7 Stirlings and one Lancaster of 3 Group laid a total of 35 mines off the risian Islands, all returning undamaged.

teorological Forecast

Centre of anticyclanc will be over the North Sec.

Home bases: fit for take-off, with small amounts of oloud and moderate to eod visibility. Nearly half 4 Group bases will be fit till 0400 hours, and most if the other operational stations may be fit all night, with a little patchy watus forming in 1, 3 and 8 Groups. Low stratus, base below 1,000 feet, may low in from the North Sea and make most of the operational stations unfit before 400 hours. Training Groups will be available as diversions to 0400 hours and rebably later. South Coast and S.W. England probably fit, but risk of thundery hin in S.W.

Germany: fine, apart from patches of medium cloud, particularly in S.

N. Italy: mall amounts of cloud, hazy over targets.

()

Winds:	750mb.	500mb.	300mb.			
. bases (take-off)	220°/25m.p.h.	230°/30m.p.h.	240°/35m.p.h.			
" (return)	: 200°/35m.p.h.	220º/45m.p.h.	2300/45a.p.h.			
3. "	: 230°/15a.p.h.	260°/20n.p.h.	260°/30n.p.h.			
Coast to Den Helder	: 260 /10m.p.h.	260°/25m.p.h.	270°/350.p.h.			
Cen Helder to Ruhr	: 290°/15m.p.h.	280°/15m.p.h.	270°/200.p.h.			
Puhr	: 310°/10m.p.h.	290º/10n.p.h.	270º/15n.p.h.			
Coast to Alps	: 300°/10a.p.h.	300°/15m.p.h.	300 /200.p.h.			
Ups to Milan	: 010°/10-15a.p	.h. 330°/20m.p.h.	340°/300.p.h.			

REASCHEID

lan of Attack

2. stre unec 0302'E. to Remscheid to 51046'E. 02051'E. "Spoof" arkers were to be related st. at 51000'N. 0500'E. by the Hosquitocs to attract the energy fighters. IT Timing. 5. cair Zero hour - 0100 hours. Period of attack - 0056 - 0118) alr 1 b: Foguitoes Backers-up Lain Porco c of (Z + 1) - (Z + 17) ist wave: (Z) - (Z + 6)(Z - 4), (Z), (Z + 4)isi ori (Z + 8), (Z + 12) 1 por minuto oxcept at 2nd wave; (Z + 6) - (Z timos (2 + 15) of Losquito attacks 000 3rd wavo: (Z + 12) - (Z ho 6. <u>Routo</u>. East Coast - 51°40'II. 02°00'E - Furnes - 50°30'N 05°15'E - 50°35'E - 51°00'II. 07°40'E - TARGET - 51° 02'N 06°30'E - 51°50'II 02°30'E - East ful 103 Const. rn. Sortios Th No. of aircr ft dospatched 273 7. 0e roporting attack on primary area..... 228 (83.5 " alternativo arca...... 10 4 (1.5 . " abortive sorties (technical and manipulative defects 25). 26 (9.5) (reserve aircraft, not required.. 1) ^a aircraft missing...... 15 (5.5 Weathor Exporienced 8. Homo Bases: fit all night. Routo and target: fine, with only odd patches of high cirrus. Visibility modorate, with patches of sea fog, mainly near the English const. Hazo ovor 2 targot. No moon. Hight Photographic Evidence No. of photographs with boubing examined 195 showing ground dotail (plotted within 3m ... 74) outsido 3m...10).. 84 firo tracks (plottod within 3m...93) outsido 3m... HIL). 104 (unplottcd......11) aircraft ostimated from the photographic evidence to have bombod within 3 miles of the aiming point 191 Harrativo of Attack The marking by the Mesquitees was continuous throughout the attack, 10. the timing boing almost exactly as planned. One aircraft released 2 rod 7. Is 5 to 10 miles S.W. of the target, and owing to a slight error by a ground station another dropped its load about 1/2 miles N.E. of the aiming point. However, neither of these appears to have attracted much bombing. Tho backing up was also continuous, and well concentrated. The main force banbod mainly within the 3 mile circle, causing fire and destruction throughout the whole tom-The whole attack lasted 10 minutes longer than was planned. Daylight Roconnaissanco.

11. The whole of the town of Romschoid and most of the surrounding districts wore covered on photographs taken on the 1st August. Great damage was enused throughout the town, and that purt of the town contro near the main station was almost complotely destroyed. The built-up area in the centre of the term was 90% domolished or gutted; in w ny cases whole blocks were obliterated, leaving /..... tho stroots

streets barely discornable in the general havoc. This was mainly due to uncontrollable fires which were seen sweeping this area the day after the st.

Industrial damage included the important Bergische Stahl-Industrie, all main workshops of which sere damaged, the engineering works of Alexandrawork almost completely devastated, and another engineering works, a small forge a brick kiln were also damaged. In addition 49 other smaller factories affected; these are believed to include manufacturers of machine-tools and cision-tools, textile mills, foundries, and chemical, shee and hardware teries.

The main railway station and the goods depot were almost completely destroyed nearby tracks were disrupted and rolling stock damaged to such an extent that the time of photography the station was probably impassable. About 94% of fully built-up area, and over 80% of the less fully built-up areas was troyed or damaged. About 7,200 housing units were rendered uninhabitable.

mativo Targota

3 aircraft attacked alternative targets in the areas of Brussels, Bergnos, Incurout, and another attacked a flak-ship off the coast between Dunkirk Ostend. Another aircraft, which also bombed Romschoid, dropped part of lead on Grevenbroich.

cial Equipmont

<u>OFDE</u> 6 OBOE Ecoquitoos and 3 roscrves set out to mark the target. aircraft roturned early owing to an unserviceable Air Speed Indicator, and 2 rves were called in, so that in all 7 OBOE circraft dropped markers. The ing was goed, and almost continuous marking uss achieved throughout the mod period. However, there appears to have been an error in setting up release point for the first aircraft on Channel III, causing an overshoot about one mile. Also 2 red T. Is fell from one aircraft when the bemb-doors copened 5-10 miles S.W. of the target. Fortunately neither of these sets inaccurately placed markers attracted many of the main force.

<u>H2S.</u> 8 Y-type aircraft were despatched, the equipment being used only as avigational aid. One aircraft returned early, and 2 of the 7 aircraft which acked reported that the set was unserviceable. Here used H2S to check its itien when bending.

EEE. The Eastern Chain operated on the Symming frequency throughout, and the Arizona frequency from 0020 to 0200 hours. 175 aircraft received GEE as ever the target, and the average range was equal to the distance of the set from the Eastern GEE station, 370 miles. Interference on the Arizona Guency was negligible and on the Wyoming frequency weaker than usual. Signals both frequencies were strong.

DOW Covorago.

The planned period of bombing (18 minutes) was exceeded by 10 minutes, Sairlings bombing over a period of 20 minutes. In consequence they received exatively little protection from the WINDOW dropped by higher flying aircraft, the took about 10 minutes to reach the level of the Stirlings. This tably had considerable bearing on the high lesses of the Stirlings (9.2%), fund with 3.8% for other types.

Dof cncos

<u>Flak and Soarchlights</u>. On the outward route heavy and light flak was in ion at several places in Bolgium, especially at Antworp. The target defences cared to be weak and incifective, only a few searchlights and slight heavy and at flak being in operation. The most severe eppesition same from Dusseldorf and Cologno on the roturn; the earlier aircraft reported moderate inaccurat, predicted flak, which changed to barrage up to 20,000 ft. Heavy flak also cooperated with numerous searchlights, which exposed singly, or in cones of y 20 or 30 beams. 6 aircraft were damaged by flak, 2 being Stirlings and 4 Lancasters. The Halifaxes were flying in the heaviest concentration of WINDOW which may account for the absence of damage to these aircraft.

20 <u>Pightors.</u> Intercepted wireless traffic revealed 11 or 12 fighters oper on the same frequency in the target area, The terms and call-signs used indicate that these were day-fighters; they also appeared to be cooperating searchlights when landing. There was little ovidence that the system of free lance fighters, with a running commentary by the ground-centrel on the general direction and height of the bombers, was in general use, although a few refers to height and direction were overheard. 130 fighters were heard operating, but only 45 of these mentioned British aircraft. The bombers reported 20 interceptions, including 4 attacks and 8 other combats, 11 interceptions occur before the bombers reached Remschoid. The only interception in the target = developed into an attack.

Casualtics.

21.

man

It is ostimated that 7 aircraft wore lost to flak, in each case after being coned, and 6 to fighters. The cause of loss of the other 2 aircraft is unknown, but one was seen to crash at Liege. Flak losses occurred at Furnes Romscheid (1), and Cologno/Dusselderf area (5), while aircraft were shot down by fighters at Bonn (1), Remscheid (1), Cologno/Dusselderf area (2), Bergen/ Alkmaar (1), and Walcheren (1). An aircraft believed to be an enemy fighter, was also shot down by flak while held by searchlights. Demage other than by flat: or fighters was due to a linding accident (1), and incendiary bombs (2).

minolaving.

22. 35 minos wor, successfully laid off the Frisian Islands by 7 Stirlings = one Lancaster, which roturned without incident.

HIO/PVD. BC/S. 26342/1/0383. 26th Septembor, 1943.

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RAID TRACK NOT AVAILABLE

