2077 TO. 16

BOUGHER CONSLICED REPORT OF FIGHT OPER MIN'S

31st. OCTOBER/1st. NOVEMBER, 1943.

Enden: Cologno: Dusseldorf: Churhnusen:

T. RY

Enden 4 Mr. I OBOE Mosquitoes were despitabled to Didon, accompanied by repeater aircraft. 3 bombed according to plan, but Mic fourth attacked on D.R. to the failure of its equipment. All returned sufely.

Cologne: Dusseldorf: 6 Mosquitoes were detailed to attack Cologne and seeldorf, using the GEND. R. technique. 5 completed their task; the sixth sest without trace.

Cherhausen 4 Mk.II OBOE Mosquitocs were sent to Oberhausen; 2 attacked rectly and 2 on D.R. .11 returned safely.

TER FORECAST

Michight frontal positions:- (1) cold from 60% 00% to 55% 02% to England (2) warm from 57% 01% to East inglia to Calais to 45% 02%.

Pases: - Low cloud at 1,000' or below, with showers and poor visibility. and in several layers on warm front. East inglia at dusk; much strate-plus at 1,500', patches at 1,000' or below with local breaks, visibility ,000 yards. 8 Group: small amounts of strate-cumulus at 1,000-1,500', '10ths, medium cloud in thin layers above 16,000'. Lisk of 10/10ths, stratus ',000' at most airfields for early return (from Ruhr) by 2100; but some tions may hold till midnight. Liversions to N.B. Scot' and W. of Peterhead.

Germany: - Patches of strate-cumulus with good electances; also medium ad in N.V. Ruhr and Enden: probably cloudless apart from cirrus and small that of medium cloud; poor visibility.

France:- Much cloud at 1,000° or below in N. I. Breken strate-cumulus tentre and S.

Frisians:- No low cloud. Visibility 1-2 miles.

Kattegat: - 7-10/10ths. strato-cumulus at 1,000-1,500'. Visibility 1 mile.

ES

	(a)	No.	of	airc	reft despatched	
٠	(b)		**			
	(c)	.11	**	311	nissing 1 (6.35))

* This figure includes 2 repeaters the accomplished their task.

ER EXPERIENCED

P.F.F. Bases: - 10/10ths.at 3,000' during operational period. Slight rain. Visibility 2-4,000 yards.

Ruhr:- No cloud. Hazy. Good visibility.

Enden: - No cloud. Thick injustrial haze. Good visibility.

No moon.

ETERY DEFENCES

7. Moderate but accurate heavy flak was encountered at all targets except Cologne, where opposition was slight and inaccurate. No activity by night fighters was everheard in connection with our operations.

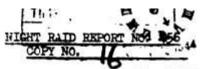
C.SU LTIES

8. One Masquite, detailed for Cologne, was missing without trace. All our other aircraft returned undamaged.

MLM/JT. FC/S. 26342/6/ORS4, Lth. December, 1943.

310'. 00%/1st. NOV. 1963.

LUCET	GROUP	TYPE	SORTIES	ATT-C		SOR		MISS-		130	GE	1	Litter	Price		
Letoin	GILLOR	1345	John 265	PRIIL "RE.	LT.	CVEK E. T.	OVER D. T.	ENG	FLAK	PIGITER	HISC. IN FLIGHT	OTHER CLUSES	.TT.EX-	NOT TICK- HD	TONS OF I	
EDE:	8 PPP	Mosq.IX Mosq.IV	3	3	2	-	E.	-	7	1	1	-	:	1	P. 2.7	
NOR; TOTAL			7	4	1.	6	-		#			-	-	- /2		
PLYMOU ING	8 PF	Hong. IV	2	2	Ψ.	-1	-	-	-	-	-	-	-	-		
oronia:	8 PFF	Nosq+IV	3	2	-	-	-	Т	-	-	2			-	P. 2.1 0.8	
DESERTION	8 P97	Mosq. IV	3	3	7	12/	-	-	Ī		-				F. 2.3	8
OREST LAURICA	हैं स्टब्स	Hong. IX	*	9	-	-		-			*:	-		-	P. 2.9	9
TOTAL			16	15	-			1					-			



BOMBER COMMAND REPORT ON NIGHT OPERATIONS

167

3/4th NOVEMBER, 1943.

DUSSKIDORF : COLOGNE : Rheinhausen : Dortmund : Minelaying : Leaflets.

SUMMERY

- 1. Dusseldorf. After a lapse of nearly five months, Dusseldorf was again raided in strength. 589 aircraft, all heavies apart from 12 Mosquitoes, were despatched, and 525 of these succeeded in reaching the primary. There was little cloud, and an accurate groundmarking attack was delivered by the light of a half moon; the bombing drifted steadily to the S.W., but as the aiming-point was situated in the extreme N.E. of the city, most of the 2,000 tens dropped fell within the built-up area. Simultaneously with the main attack, a special force of Lancasters equipped with G-H tested this precision device for the first time on a considerable scale, in a raid against the Mannesmann steelworks; their accuracy was such that 50% of their bombs fell within ½ mile of the target. Reconnaissance revealed considerable damage in Dusseldorf, especially to industries in the S. of the city. 18 heavy bombers were lost (3.13); 3 fighters were destroyed.
- 2. Cologne. 52 Lancasters (including 20 blind-markers) and 10 Mosquitoes were detailed to carry out a feint attack against Cologne 10 minutes before the start of the main raid on Dusseldorf. They achieved their main purpose, since the enemy ordered his fighters to Cologne 2 minutes before zero hour at Busseldorf; surprisingly, the feint raiders reported no combats, and none were lost. The actual bombing was very scattered, and little danage was caused in Cologne.
- 3. <u>Rheinhausen</u>, 13 OBOE Mosquitoes were briefed on a partiairn attack against the steelworks at Rheinhausen; 6 bombed according to plan, the rest on D.R. 2 raided alternative targets in the Ruhr, and one returned early. No casualties were sustained.
- 4. <u>Dortmund</u>. 2 G-H Mosquitoes were detailed on a precision test against Dortmund; but both attacked on D.R., since their sets became unserviseable. Both returned undamaged.
- 5. Minelaying. 23 Stirlings and Lancasters left on a mining operation off the Frisians. All but one reached the target; 128 mines were laid. 2 aircraft were equipped with H2S, the first time this device was used on a mining operation, although neither aircraft employed it during the actual period of release. All aircraft returned safely.

BATHER PORECAST

6. Bases: All fit at dusk. Minor front will cause a narrow belt of low cloud, base 1,500 ft., to affect Yorkshire at midnight, keeping visibility from deteriorating till later in this area. Elsewhere, conditions will become difficult after 2200; but East Anglia will held till midnight, and all Groups should be able to deal with their own aircraft. Diversions up to midnight in Tangmere Valley, Silloth, Acklington and Drem areas.

Germany: - Front over E.W. Germany, lying at midnight from Groningen to S.E. of Paris to E. of Limoges, giving a wide belt of medium olpud, tops 12,000' or below, with very patchy cloud above. (This includes Ruhr). S. of 50°N. and E. of Mannheim; small amounts of medium cloud, with valley fog forming. N. of 50°N. and E. of 10°E: much strato-cumulus, perhaps with medium cloud above. Dusseldorf: doubtful amounts of strato-cumulus, probably less than 7/10ths (perhaps even less, with a risk of 10/10ths in patches). Tops 6-8,000'; chance of some medium cloud above. Similar conditions on route.

W. France:- Broken layer cloud, base 1,500' or above.

DUSSELDORF.

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PLAN OF ATTACK

7. Route. East coast - 52°15'N. 03°00'E - 51°49'N. 03°53'E - 51°03'N. 05°18'E - 51°00'N. 06°17'E - DUSSELDORF - 51°22'N. 06°39'E 51°49'N. 03°53'B 52°15'N. 03°00'E.

- Target Marking. Blind markers (OBOE Mosquitces), were to drop red T.I. on the aiming-point, together with release-point flares. Backers up were to maintain the groundmarking with greens aimed to evershoot reds (or the centre of all greens visible) by 1 second. If T. I. could not be seen for eloud, backers-up were to join the supporters, retaining their greens but aiming book at release point flares. Supporters and main force aircraft were to aim at reds or the centre of greens, if visible; otherwise to bomb the flares on an exact heading of 060°%
- 9. Timing. Zero Hour: 1945 hours. Duration of attack: 1942-2005 hou

Blind-markers: 9 Mosquitoes (+ 3 reserves,) at zero-j, zero, zero+j, +5 +7, +10, +13, +17, +20.

Backers-Up: 2 Lanc. at zero.

2 Lanc. at zero + 1.

15 Lanc.) from mero + 2 to zero + 20 (one per minute)

4 Hal.)

Supporters: 7 Hal. at zero + 5.

Main Force: 93 Lanc. from zero to zero + 4. 113 Hal. from zero + 4 to zero + 8.

100 Lanc. from zero + 8 to zero + 12. 100 Lano. from zero + 12 to zero + 16.

98 Lanc. from zero + 16 to zero + 20.

10. Marker Loads.

> 3 7. I. red (4 IB) + 2 flares (red with green stars) + 1 Blipd Markers: flare white.

Backers Up: 4 7.1. green (2 LB).

11. Tactics. (a) WINDOT was to be dropped at the rate of one bundle every a minutes from 52°10'N. 03°10'E. to 05°04'N. 06°24'E; at one bundle per minute w 20 miles of the target in both directions; and one bundle every 2 minutes from 51004'N. 06°24'E. to 51°25'N. 06°28'E.

, (b) A diversionary attack was to be carried out against Cologbetween zero - 10 and zero - 1. 20 Y-type Lancasters were to mark the target blindly with red T. I. at zero - 10; 33 Lancasters were to bomb at zero - 8; and 10 Mosquitoes were to follow with green T, I. between zero - 8 and zero - 1 (2 at zero - 8, 2 at zero - 7, and one each remaining minute).

SORTIES

(a) No. of aircraft despatched. reporting attack on primary area..... " alternative area..... m abortive sortics (technical defect or (manipulative error......32

(orew failure..... (reserve marker (not required aircraft missing.....

N.B. The above figures include 38 Lancasters which were detailed on a special attack against the Mannesmann works. 15 bombed the faction G-H, 16 found difficulty with their special equipment and join the main force in attacking the town; 5 returned early and 2 were

TEATHER EXPERIENCED.

13. Bases: 10/10ths strato-cumulus at 2-3,000' in N. at take-off, with some haze. Good visibility in East anglia. By 2200 hours visibility in 4 and 6 Groups had fallen to 1-3000 yards, but remained above 2 miles in 1, 3, 5 and 8 Groups, with no cloud below 2,000'. Meanwhile fog had begun to form in the S.E. corner of East anglia, soon affected 3 Group and became widespread after midnight; but many bases remained fit until that time.

Route: - A belt of layer cloud extended from the Dutch coast to 90 miles w. of Dusseldorf; average 7-10/10ths, around 14,000'.nother broken layer at 6,000'. Contrails at all heights above 15,000'.

Dusseldorf: - Variable cloud; generally small amounts, nil at times, some reports of 7/10ths, 1,000' thick, at 14,000'. Fog patches on surface. Visibility moderate to good. Half moon.

Wind at 20,000': 150-160°/25 m-p.h. at 28,000': 160°/30 m-p.h. Surface wind : N-NE/5-10 m-p.h.

HIGHT PHOTOGRAPHIC STATISTICS.

. (a) Special Target

No.	of	pho togra;	hs examina	· · · · · · · · · · · · · · · · · · ·
		- 11	showing	ground detail (:letted within 1 mile) 5
	*	. "	H	fire tracks (plotted within 1 mile) 4
"	*	aircraft	estimated.	to have London within 1 mile of aiming .
	100			point12
-	"		reporting	nttack

(b) Town.

No.	cf	photographs examined
11	**	" plotted within 3 miles (ground detail
•	"	" plotted within 3 miles (ground detail
Ħ	. #	"unplotted
	*	" estimated to have bombed within 3 miles of aiming
	n	point290

FRATIVE OF ATTACK

The attack opened at zero - 3, with 3 red T.I. dropped in salvo by an BOE Mosquito; but there fell in a stick \(\frac{3}{4} \) mile long centred about \(\frac{1}{4} \) mile S. It the aiming-point (i.e. in the centre of Dusseldorf). The main force attack tarted at about the same time, and until zero + 4 remained well concentrated round those markers. After zero + 4, there was a gap of 5 minutes before the ext OBOE aircraft bended, but this was bridged by the backers-up. The bulk the main force continued to bomb the built-up area. Decoys soon became tive S. of the city, and attracted a number of orews; the Macherscheid fire ite (5 miles S.S.W.) was also in action, and this diversion was made worse by backer-up which dropped red T.I. (with which it had been accidentally loaded), it miles S.S.W. of the aiming point, aiming at a skymarker flare. With the mual undershooting, the attack spread rapidly S.S.W. towards the close. Most the bends hevertheless fell within the built-up area, since the aiming-point is situated in the extreme F.E. of the city. The G-H trial attack on the immession works was successfully carried out at the same time as the main ceration (see paragraph 21).

DAY RECONNAISSANCE.

16. Considerable derings resulted from this attack, especially to industries in the S. of the town, although many bombs must have fallen in areas already devastated by previous raids. Over 28% of such property as remained intact in the fully-builtup areas was affected, and 15% in suburtan districts. 21 factories, including 4 armanent and steel works of high priority, (Schiess-Defries A.G., Deutsche Rohrenwerke A.G., Rheinmetall-Borsig A.G. and Mannesma Rohrenwerke) were hit, the first 2 very seriously. Other industries affects included firms producing wire products, insulating material, paper machines, enamel, aluminium castings and several engineering works. The main railway station and the goods stations at Bilk and Oberbilk sustained further damage, and at least 7 hits were scored on railway tracks, causing injury to rolling stock. The municipal power station and gas works, 2 tran depots, the main inland revenue office, the Rathaus, the cattle-market, 3 hutted camps and var dockside furthouses and sheds were variously afteriods.

ALTERNATIVE TARGETS

17. 9 aircraft booled alternative targets in the areas of: Cologne (2), Kempen, Houzheim, Marriagok, Moll, Grotenrath, Asch and Munchen-Gladbach. On other aircraft jettlernal its load of incendiaries over Gheel, because of engine failure, but later succeeded in attacking the primary with H.E.

SPECIAL EQ IPMENT.

- 18. OBCE. 9 OBCE Mosquitoe: (8 Mk.I. and 1 Mk.II) were detailed to mark target, with 3 Mk.I aircraft in reserve. The serviceability of OBOE on this night was very poor, with the result that only 5 bundles of skymarkers and 3 T.I. were dropped; and the 2 aircraft which released skymarkers alone, report that their signals had failed immediately afterwards, before the T.I. could be sent down. One reserve was called, and succeeded with 2 other aircraft in dropping both sky and ground markers. The cause of the high number of failure is obscure, but seems to have been mainly due to mutual interference between channels.
- 19. GEE. The Eastern Chain operated on the Wyoning frequency throughout, on the Indiana frequency i.e. 1900 to 2020 hours. The interference on the Wyoning frequency was on the usual type, noise being the most important. A certain amount of this was also seen on the Indiana frequency, which was used by Borber Command for the first time, but this was due to a break through and had been anticipated. So if the Indiana frequency added about 50 miles to range, the averages being 27; and 280 miles on the outward and homeward route respectively. A few managements obtained A/B position lines to the target.
- 20. H2S. 72 Main Ferry aircraft carried H2S for navigational purposes.
 53 reached the target with their sets in order, and 2 used it to confirm their position when bombing manners. 1 Y-aircraft was lost.
- 21. G-H. G-H was used for the first time in any large-scale operation, against the Mannesmann Rohrenwerke while the main force was attacking the eight Lancaster II were equipped with the device; 15 attacked the primary according to plan, 16 found their sets unserviceable and bombed the city, 5 returned early and 2 were lost. Most of the failures were dur to breakdowns in the equipment, but 6 were probably the result of weak aircraft transmissions, as these aircraft failed to obtain one of the pulses, and their sets had not been nodified to increase signal strength. The photographic evidence suggests the 50% of the bombs fell within a mile of the aiming point; full technical details are given in 0.F.S./P. >. Report No. S.110.

ENEMY DEFENCES

22. Flak and Searchlight... The guns of Dusseldorf fired a barrage of hear flak with a ceiling of 15 46.000, coorsionally aiming at aircraft held by searchlight cones above this level. Moderate to intense light flak was fire

to 14,000. Towards the end of the attack, the flak decreased and many searchlights remained stationary without seriously attempting to engage targets. En route, heavy flak with searchlights was encountered from Retterdam, Antwerp, Cologne, Krefeld, Duisburg, Eindhoven, Tholen and Herenthals. 6 returning aircraft were damaged by flak.

23. Fighters. The proportion of combats in the target area was the lowest since the introduction of the running commentary system of fighter control, although the number of sightings was normal, and no increase was noticeable in the number of attacks on route. Of about 120 enemy aircraft seen, 80 were ever Dusseldorf and as many as 55 of these were twin-engined. 9 Ju.88 and 2 Me.210 were identified in combat over the target, and 12 Ju.88, 5 Me.210 5 Me.110 and 1 Do.217 en route in both directions, 2 FW.190 were sighted over Dusseldorf.

Running commentary and Benito control were both already operative when cur bombers were crossing the enemy coast; fighters were ordered to a begon near Canabruck, then to Bonn, Dortmund and, just as the diversionary raid on Cologne was anding and 2 minutes before zero hour at Dusseldorf, to Cologne. Surprisingly the feint raiders reported no combats in the Bonn area, although the fighters orbitting there seemed certain to contact them; perhaps enemy pilots could see the first combs fall on Dusseldorf, and went these immediately. No mention of Dusseldorf was heard on intercepted wireless traffic. A control operating E. of Juvinocurt reported hostiles flying towards Frankfurt and Darmstadt, and twice later announced their presence in the Koblenz area; the suspected aircraft were probably enemy fighters.

14 returning aircraft were damaged by fighter, one so badly that it became a total wreck and 4 others very periously. 3 energy fighters were claimed as destroyed, 2 Ju.88 to Halifaxes of 4 Group over Dusselderf and a Me.210 to a 5 Group Lancaster near Gilze/Rijen.

CASUALTIES

24.		No.	of	aircraft	missing.		
		**	11	*	damaged	(flak6))
9						(fighter.,)
						(British incendiaries10)	·····37
					1	(British defences 1)
	-					(other causes)

2 aircraft were seen shot down by flak on the way out, one at Tholen and one at Herenthals. In each case they fell to isolated bursts from individual tatteries. 4 more were lost to the guns of Dusseldorf, and one to heavy flak at Krefeld. 4 losses to fighters were observed along the route, and 9 more over the target. There is no evidence to account for the other 5 losses; it is nore likely that they fell to controlled fighters than to those co-operating with the running commentary.

A Halifax of 4 Group and a Halifax of 6 Group crashed on roturn and ... were destroyed. Only one man was left alive of the 2 crews. A Language of 5 Group was wrecked on landing ofter sustaining severe fighter damage.

COLOGNE.

25. 52 Lancasters and 10 Mosquitces were detailed to carry out a feint attack on Cologne 10 minutes before the start of the main effort (see paragraph 11). 12 of the 20 Y-type Lancasters dropped T.I. blindly on H2S, and all but 5 of the force reported attack; but a very poor concentration was achieved, some of the blind-markers apparently bombing as far as 12 miles 3. and S.W. of the aiming-point. 5 aircraft bombed alternative targets at Bonn (2), Eschweiler, Gladbach and Overath. All returned safely, 2 sustaining slight damage from flak. Reconnaissance showed little damage in the town; the 2 platform coverings, nearest the Cathedral, of the main station, received a direct hit, and at one point the tracks were cut.

RHEINHLUSEN

26. 13 OBOE Mosquitoes (8 Mk.I and 5 lk.II) were despatched to attack the steelworks at Rheinhausen; 3 of each type completed their task. 4 others bombed cm D.R. and 2 attacked Dusseldorf and Duisburg, because their precision devices had failed. The thirteenth aircraft returned early with engine track No incidents were reported and no casualties were sustained.

DORTMUND

27. 2 G-H Mosquitoes were detailed for Dortmund; but both attacked on D. R. since their sets were unserviceable. Both returned undamaged.

MINELLYING

28. 22 Stirlings and Lancasters laid 128 mines off the Frisians; a trenty-third sortie was abortive. 2 aircraft were equipped with H2S, the first tin this device has been used on a mining operation; but neither employed it ove the target area, one because the set was out of order and the other because the was flying at too low an altitude. No incidents were reported, and all aircreturned safely.

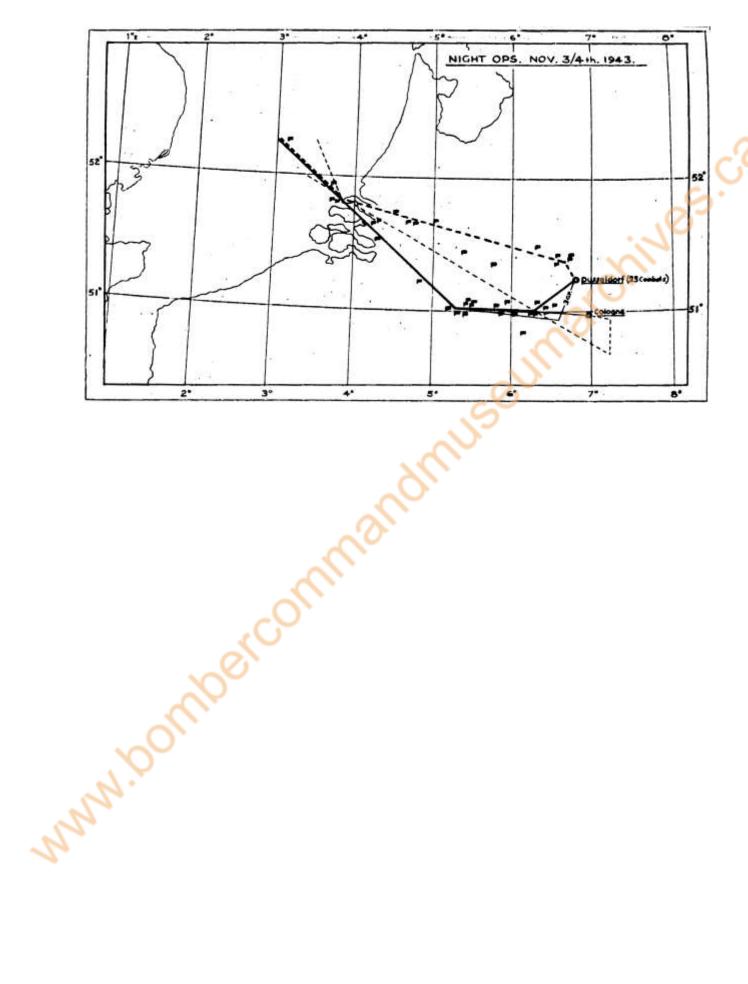
LEAFLETS.

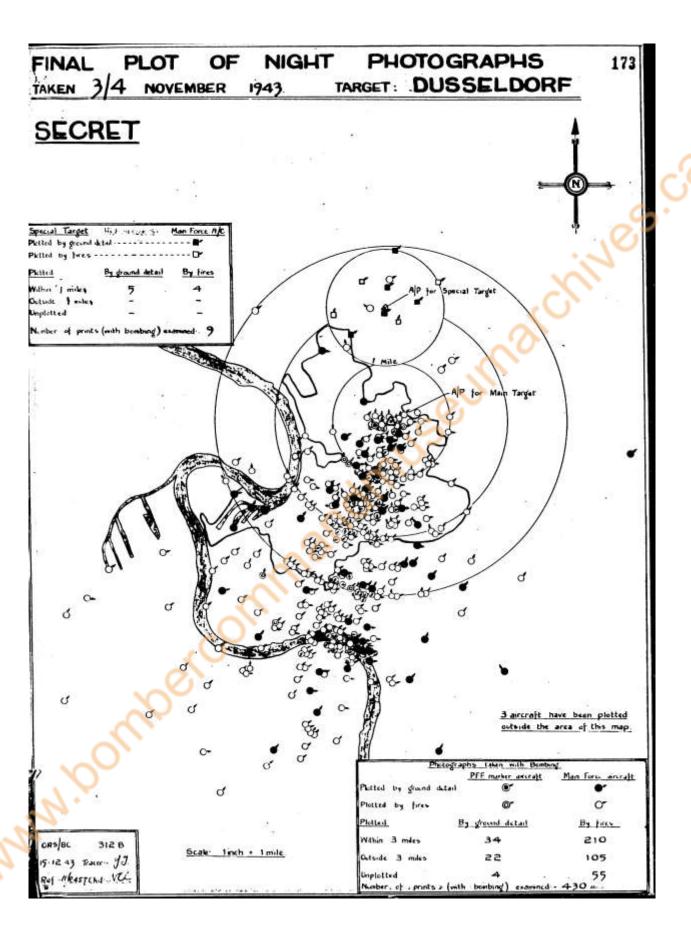
29. 27 Wellingtons and Whitleys, accompanied by 4 U.3. Fortresses, set out disperse leaflets over various towns in Northern France. All completed their task, except one Wellington which Mettisened its bundles over a useful area, one Whitley which returned early. 2 circust were damaged by flak, and one to non-enemy action; all returned safely.

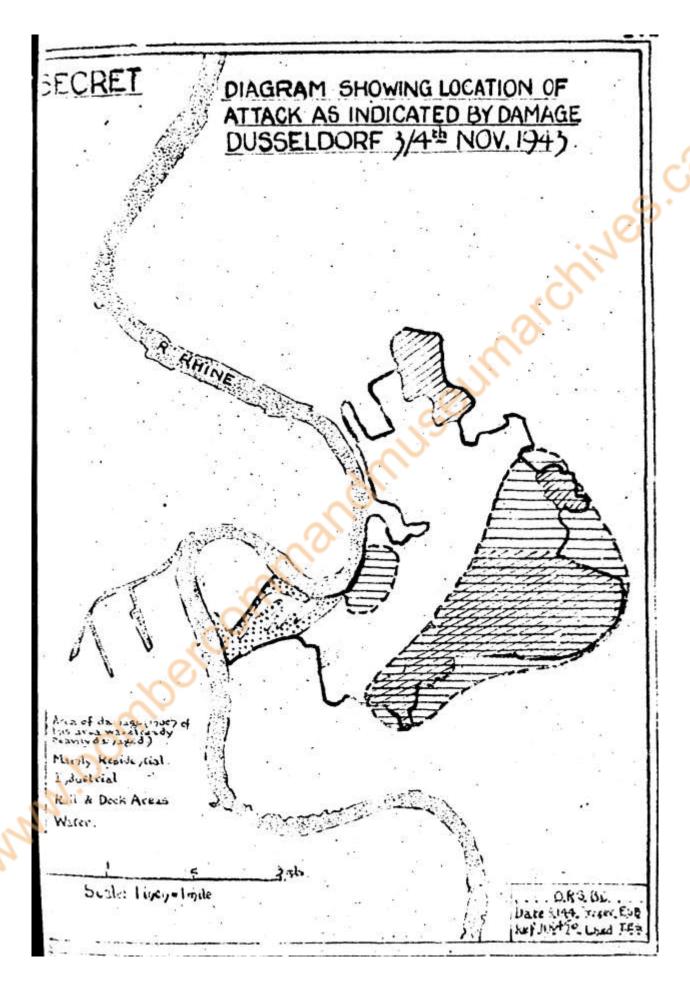
MLM/PVD. BC/S. 26342/1/ORS4. 6th January, 1944.

LIKET	GROUP	ADKRAFT	SORTIES		ACK ON	ABORT		MISS-	FLak	Picti-	MISC.	OTHOSE	DUTER EPTI		TONNAGE
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201.01403/11401	P.F.F.	103. IV.	3	1	-	2	-	-5.0	-	-	-	-	100	- 1	866-9 1194
100		HAL. In-	+	4	-	+ + -	*	-	-	-	T	-		- 1	13-5 10-4
- 3		LANC. III.	19	17	1 1	-	- 1	-	-	- 0	1+C+1	-	-	- 1	25+9 38+0
	8 M.F.	HAL. In-	+	+	-	7	-	-	•	•	-	10	-	-	170
		Lauc. I.	25	22	-	+	2	1	-	-		-	-	4	
3	.1	L20. III.	115	109	-	3	1	4	-	2 🔑	-		6	7	HEAVY BOMBS
- E	4	Hal. II & V.	45	38	-2	-	5	3	1	233	1B+1,40 + 1	-	1	3 1	264
	5	Ball- In-	90	79	4		5	,2	1	2B+ 1 ₄ D+2	240+3	1E	10	4 ;	9 6
	5	Latic. I.	37	36 ,	-	-	-	1	-	1	-	-	- 2	2	
		LaNC. III.	110	101	2+10	-	4	3	1	1B+3+C	-	-	6	17	1.03
	6	HALLII & V-	55	47	-	-	6	5	5	-	2 AC	-	7	6	
		Hal. In-	35	32	-	•	3	-	-	-	-	12	4	7	
DUSSELDO	RF TOTAL		551	+16 ^{XX}	9+1°	7+1 ^X	21,	16	5	1E+LB 6,C+3	18+6±0 +5	2B+1B	36	Я	
KRISELDORY	3	LING. II.	13	5	7	-	3	1-	1		-		1 - 1 1 1 - 1	4 P	32.2 23.
CHORESLAND WORKS SPECIAL TAR	6 ET	Lanc. II.	25	10	9		14	2	-	-	2	- e	3-1	ห	32.2 25. 3.6 3.
(Addisortion)		8	38	15	(16**)	-	3	2	1		2		2	P	3 12 2 14 - 2
HESELDORY .		TOTAL	589	525	9+1°	7+1 ^X	29	18	6	1E+4B 6a0+3	18+6±0 +78-	28+19	38	41	

LICET	CHOUP	LINCRAFT	SCRTTES	TA/C R	MECHATING	ABOR	TIVE	KESS-		LUNCE				MITTONS	FOMB TONNAGE
110001	LIEUT.	TYPE		ATT	ALT.	OVER B. T.	TES.	ING.	TAX		MISC. IN PLICHT	CAUSES	ATTAIX-	MOT ATTACK-	H. E. Ine.
				ANNA		P-1-	R. I.		4	TE+LE	18+6-0			-	
SEECIAL		TOTAL	589	525	9+10	7+1x	29	18	6	6±C+3	• 7	2E+1B	38	41	**
TARGET	8	MOS. IV.	10	10	-	-	-		-	V +	-	-	-	-	P 229.2
COLOGNE	P. P. P.	LANC. III.	20	18	2	-	-	1	2	-	-	-	-	-	L 20.2
	M.F.	LAC. III.	32	29	3+1°	. 1 7.5	19		-	-	15		-	2	P 145 x 4,000 lb.
- 1	COLOGNE	TOTAL	62	57	5+10	-	-		2	-	-		7.7	2	The state of the s
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21131411	P.F.P.	MOG. IV.	8	5	2	1-1	1	-	-	-	-	-	-	-	A 1.6
ZHETNHLUST	EN TOTAL		13	10	2	-	1	-	-	-	-	74		-	
DOSTMEND	8	MOS. IX.	1	- 1	-	-	-	-	-	-	-	100	100	-	P 1.3
JORDAN	F.F.P.	MCS. IV.	1	1	-	-	-	-	-	-	-	-	-	-	
DORT	MUND TO	ML	2	2			-	-	-	-	-	-	-	-	
DOMES	ING TOTAL	IL.	666	594	16+20	8	30	18	8	12+48 6.0+3	15+6.0	2E+1B	38	43	
Hisland IN	1	S7IR. III.	16	17	-	-	1	-	-	-	-	-	-	-	98 MD05.
WIEL, WE		LANC. II.	5	5	-	-	-	-	-	-	40 .	-	-	-	30 MINES
3	MINEL YIN	C TOTAL	23	22	-	-	1	-	-	-	-		7	-	128 MINUS
PULEYS	91	MHIMITAL	13	12	-	-	-	1	-	-	-	-		-	92 Gp. to Parts.
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BOMBER COMMAND REPORT ON NIGHT OPERATIONS. L/5th NOVEMBER, 1943.

Leverkusen: Aachen: Minelaying.

SUBMARY

- 1. Leverkusen. 24 Mosquitoes were despatched to attack the chemical works at Leverkusen. 14 were fitted with OBOE (13 Mk.I and 1 Mk.II), the last being a "Fountain Pen" type; 4 carried red I.I. to act as markers. 3 markers and 2 other OBOE aircraft bombed by means of their precision device; one OBOE and 9 non-OBOE aircraft attacked visually. Fires were seen, and one large explosion was observed from 50 miles away; but cloud prevented an accurate assessment, and no reconnaissance was undertaken until after the major raid of 13/20th November. 4 OBOE aircraft resorted to alternative targets on the failure of the precision device; 3 bombed Cologne and one Anchen. All aircraft returned safely.
- 2. Aachem. 4 Mk.II OBOE Mosquitoes were sent to Achem; 2 attacked satisf factorily by means of their precision device, and a third ran up amording to plan but mistook a fade for the release signal and dropped its bombs 10 miles S. of the city. The fourth released on D.R. after its equipment had failed; 2 of its bombs fall 4 miles M. of the target. All returned undamaged.
- 3. <u>Minelaying</u>. 36 Stirlings and Wellingtons were detailed on a mining operation off the French Atlantic coast, and in the Nattogat. 28 accomplished their task, laying 66 mines. 2 used B2S to determine their position at the time of release. 4 Stirlings were lost to controlled fighters over Denmark, and 2 others were seriously damaged.

EATHER FORECAST

4. Bases:- Low cloud should clear all bases during the afternoon and most cross should be fit at dusk, although visibility will remain poor N. of the Wash. Fog will reform there between 2000 and 2100, and in 3 and 8 Groups at 2200-2300; but coastal stations in E. Anglia, the S. coast and S.W. peninsula should keep clear, most of the night. No diversions in Training Groups except in Lessiemouth area.

Germany: Feeble cold front will extend at midnight from Zuyder Zee to Mannhein to Vienne, giving cloud at modium levels. Most of the country will be covered with 10/10ths strato-cumulus. Visibility will be moderate. 8-10/10ths strato-cumulus over the North Sea, base about 1,500.

France:- N.E. will be covered with strato-cumulus. Little cloud in New, apart from a few patches of lifted fog.

integet:- Strato-cumulus will be based at 1,500'; breaks should be found, and visibility will be very good.

SCRTIES

			Leverkusen Aachen Minelaying
(a)	No. of	'aircraft	dcspatched
(b)	No. of	aircraft	reaching primary area15
(c)	No. of	aircraft	despatched
			pres 4
(d)	No. of	'abortiva	sortics (tuch.defect.5).5
(c)	No. of	' circmft	pissing

2 of those sorties were abortive because the pilots were unable to pinpoint; 1 was shot up by a fighter on the way out, and 1 jettisoned its mines in the wrong position.

WEATHER EXPERIENCED.

6. Bases: Operational bases (1.e. 1, 3 and 8 Groups) were fit throughout the operational period with 9-10/10ths strato-oumslus at 1,500-2,500. Visibility was moderate to good in East Anglia, and poor to moderate in the E. Mist and fog developed in the S.W. peninsula before midnight.

Leverhusen and Anchon: 9-10/10ths strato-ournlus, base 2,000', tops 3,500', along route. 7-8/10ths over targets, breaking at times to 3/10ths. Ground haze. No moon. Visibility good, above cloud.

W.Prence:- Small amounts of cloud above 2,000'. Good visibility, Eg

Katteget:- 10/10ths. strato-cumulus, base 1,500-2000', tops 4-5,000', rising at times to 7,000' between 6' and 7'E. Light iding at 4,000' at 8'Z, Half mon.

ENERY DEFENCES

- 7. Flak and Scarchlights. Moderate to intense heavy flak was mot over Leverkusen, bursting at 29-30,000'. A few searchlights co-operated. Slight flak engaged our Mosquitoes over Aschen. Minelayers encountered light flak from Skagen and Lace Island, and a little heavy flak from a ship in the Skaggerak. The usual ground opposition was met from coastal points on the French Atlantic coast.
- 8. Fighters. 3 combats were reported over N. Denmark and the Skaggerak, 2 with Ju.88's and the third with an unidentified aircraft. 2 other twin-engin aircraft were seen over N. Denmark. No fighters were observed over Germany a France. 36 sorties by controlled fighters were heard, 20 of which were active against hostiles in areas from N. Denmark to Holland. 4 victory claims were heard; 2 from Skagen and one near Bloavendshuk against homebound bombers, and one from Tyboron against an costbound aircraft. In the last-named combat, to fighter was also damaged.

CASUALTIES

9. There is little doubt that the 4 missin; minelayers, all Stirlings operationer the Kattegat, were shot down in the target area by controlled fighters. There was a half moon and visibility was good; our aircraft, flying in small numbers at heights between 5000' and 10,000', presented favourable targets for successful interception with ground control. 3 aircraft were apparently lost on the way home, one creshing S. of Thisted. The fourth aircraft was reported by Danish radio to have crashed near Grove. 2 other Stirlings were severely damaged by fighters in the same area. One Mosquito and one minelayer (off St. Mazaire) sustained minor damage from flak.

MLY/PVD. BC/S.26342/6/ORS4. 7th James 1944.

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BOMBER COMMAND REPORT ON NIGHT OPERATIONS, 5/6 NOVEMBER, 1943.

Hannover , Hanburg etc. , Leaflets.

SULCLARY

- f. Hannover. 5 Hosquitoes, bombing on D.R., carried out an uneventful harassing raid on Hannover.
- 2. Hamburg. 6 Masquitoes were detailed on a harqueing attack against Hamburg. 5 completed their task, bombing on D.R: 2 returned early with GEE failure, and one, being unable to pimpoint the primary, attacked Heligoland. No incidents were reported.
- 3. Bochum. 10 Mosquitoes, equipped with OBOE 18.1., were despetched on a precision raid against the Bochum armments works. 8 attacked according to plan and one on D.R., after its device had failed. The tenth aircraft did not complete its run, and erashed on return. Both the crew were killed. No other cosulties were sustained.
- 4. <u>Dussoldorf.</u> 4 Masquitoes, equipped with OBOE !R.II ("Penwiper") were sent to the armaments works at Dussoldorf. 2 attacked successfully on OBOE and the other 2 on D.R., because their equipment was unserviceable. All returned undamaged.
- 5. <u>Dorthund</u>. One Mk.II ("Fountain Pen") Mosquite carried out a successful raid on the steelworks at Dorthund, a target 265 miles from the further ground station.
- 6. Leaflets. 26 Wellingtons dispersed leaflets over allotted areas in Northern France; a twenty-seventh aircraft experienced technical trouble and dropped its bundles near Mortagne instead of over Chartres. No casualties were sustained.

WHATEUR FORECAST

7. Midnight frontal positions:- (1) warm from 60°N. 04°E - 550N. 02°W - 50°N

Bases:- A frontal belt will move across the Pritish Isles from the N.W. but until 0200, very little rain is expected E. of a line Spurn - Portland Bill. After that time, cloud cower should prevent fog formation, although visibility troubles may occur in East Anglia. Generally, visibility will be greater than 2.000 yards. Variable amounts of strat - cumulus, patchy in most areas, but in 6 Group.

Germany:- Much strato-cumulus, with brooks. Cloud emounts at any one place are difficult to forecast - probably either 10/10ths or mil.

Pronce:- Much broken strato-cumulus.

SORTIES,	Bombing	Loaflets
8. (a) No. of aircraft despatch (b) No.of a/o reaching prime (c) No.of aircraft reaching area	ry arca 23	26
(d) No. of abortive sorties(2)2	0 O THER EXPERIENCED

WEATHER EXPERIENCED

9. Bases (3 Group):- Fit during operational period. Rain approad from the safter 0200.

Hannover and Hamburg:- A belt of strate-cumulus covering Kiel Bay and extending in an are just E. of Hannover and Hambur; moved slowly E. Early aircraft found no cloud, but late arrivals reported that both targets were covered with 10/10ths.

Ruhr:- No cloud during attacks. Hazy.

Good visibility above cloud. No moon.

ENEMY DEFENCES.

10. Moderate flak was encountered from most tar ets, but now from Hamburg, Searchlights were setive at Bochum and Dortmund. No fighter activity was reported, except by 1 Wellinston of 92 Group, which had an inconclusive combat with 3 unidentified aircraft in the Cherbour; area.

Casualfies.

11. No aircraft was lost on this night. One Masquito erashed on return, and was wrecked with the loss of both the crow. 2 Wellingtons and one Mosquito received minor hits from flak.

MLM/PVD. BC/S.26342/6/ORS. 8th January. 1944.

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⁹¹ Cp. to REFORM, IAVAL, LEBLINE, ARGENTAN, ANCHES, FONTAINGLEAU, HOWTEREAUX, MONTARGIS.
92 Cp. to ORLEANS, CHARIFORN, MELUN, MONTARGIS, VERSAILLEL.

BOMBER COMMAND REPORT ON NIGHT OPERATIONS, 6/7th NOVEMBER, 1943.

Boohum : Hamborn : Dusseldorf : Duisburg : Minclaving : Leaflets.

MARY

Boohum. 9 Mosquitous, equipped with OBOE Mk.I and manned by crews being mined in the use of this equipment, were despatched to attack the Vereinigte shlwerke at Boohum. 4 bembed according to plan, although one of these made a my poor run. 3 others had OBOE failures, and attacked the primary on D.R.; se bombed Rocklinghausen and one, experiencing engine trouble over Holland, appeal its load on Gronau. All aircraft returned safely.

Hamborn. 2 G-H Mosquitoes were sent on a precision test against the last furnaces of Vercinigte Stahlwerke at Hamborn. Both had technical failures of bombed on D.R. No incidents were reported.

Dusseldorf. 4 Mosquitoes, not equipped with OBOE, set out on a haressing id against Dusseldorf. 2 attacked the primary on D.R. The other two perienced GEE failure; one bombed blindly in the Ruhr area, and the other turned early. No casualties were sustained.

Duisburg. 4 Mosquitoes, not equipped with OBOE, completed an uneventful ressing attack on the town of Duisburg, bombing on D.R.

Minelaying. 16 Wellingtons laid 32 mines off the Dutch coast and the

Leaflets. 8 Wellingtons, accompanied by 2 U.S. Fortresses, dispersed affects over towns in Northern France without loss.

ATHER FORECAST

Midnight frontal positions: (1) cold from Central Denmark - E. of Brussels E. of Nontes. (2) indefinite frontal system over S. Germany E. of 10°E.

Bases:- Fit all night, apart from local smoke in 5 and Training Groups, and equent showers near East Coast and in W. Midlands and Wales, where cloud tops y extend above 20,000'.

Germany:- Cloud tons to 20,000' on front 1; which will reach the Ruhr 0100. After that time there will be little cloud in the Ruhr. The Upper the will be clear early in the night, but cloud will increase later. E. of E., there will be much strato-cumulus, with medium cloud above and rain and w showers S. of 53°N.

France:- W. coast: fair, with small amounts of cloud at 2,000', and a noe of local showers in N. Good visibility. Bordeaux area will be affected the front all night.

Prisians and Dutch coast: 4-8/10ths cumulus and cumulo-nimbus, base 30-2,000' (falling to 1,000' in showers), tops 12-15,000'. Good visibility. ezing level 3-4000'.

TIES

(a)	No. of	airemet	desnatch	ed	Bombing	Mineleying	
(b)	No. of	aircraft	reaching	primary area.		16	8
(d)	No. of	abortive	sortics	(tech.dect	1). 1	0	0
(f)	No. of	mines la	ic			32	

WEATHER EXPERIENCED.

9. Besest- Fine, with good visibility. Showery over East coast.

Ruhr: 5-8/10ths over North Sea, tops 15,000', increasing to 10/10ths over Ruhr, tops 25-26,000'. Very good horizontal visibility. No moon. Light **Ming** over North Sea.

Frisians:- 5-8/10ths convection cloud, base 1,000-1,500', falling bold 1,000' in showers. Occasional hail. Very bumpy.

N.W.Franco:- Variable amounts of cloud, mainly 4-6/10ths., base above

ENEMY DEFENCES.

10. Opposition in the Ruhr was slight, except at Bochum, where flak was fairly intense. Minelayers were fired on from the usual coastal points. The only evidence of any fighter activity was reported by Wellingtons of & Group, one of which was engaged in combat by an unidentified sixoreft off Dioppe, while another saw a Ju.88 near Cherbourg.

CASUALTIES.

11. No aircraft was lost. One Mosquito received a minor hit from flak over Boohum.

MLE/PVD. BC/S.26342/6/ORS4. 8th January, 1944.

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BOMBER COMMEND REPORT ON NIGHT OFFICE TOTAL

7/8th NOVEMBER 1945.

Essen: Minelaying: Leaflets.

SWOLLKY.

- 1. Essen. 6 Mk. II OBOE Mosquitoes ("Penwiper" type) were despatched on a precision test against Essen; but none were able to use their device, because one of the ground stations failed. 2 were recalled, and the rest attacked on D.R.
- 2. <u>Minelaying.</u> 35 Stirlings and Wellingtons were detailed to lay mines off the Trench Atlantic ports. 33 reached their targets, laying a total of 72 mines. One aircraft returned early, and one was lost without trace.
- j. Leaflets. 7 Wellingtons, accompanied by 2 U.S. Fortresses, dispersed leaflets over allotted areas in Northern France without loss.

WELLIER POPUCALT.

1. Midnight frontal positions:- (1) 55°N.08°3 - 53°N.10°E - 51°N.15°E -

Fases: Mainly fit, with small amounts of low cloud, and varying amounts of medium and high cloud dome 15-20,000'. After 0600, slight rain will fall in 5 Group and further F., with broken low aloud (not below 1,500') and thick layers of medium cloud (care 5,000', tope 18,000). Lenin will fall continuously after 0800. Visibility will generally be 2-5 miles, deteriorating locally in N. to 1,500-2,000 yards, and locally in S. to 1,000 yards. 10/10ths medium cloud over East Anglia towards down.

Germany:-' Much thick low and medium cloud will extend to great heights in the frontal zone, with rain. W. of the front, a stream of cold unstable air will be sweeping down from the North Sea into Germany. On the N.W. coast, conditions will be very severe, with 8-10/10ths cumulo-nimbus towering to 20-25,000', freezing level 2-3,000' and heavy showers. Cloud amount will decrease and tops lower towards the S.E. 7-8/10ths., tops 15.0.00', in Ruhr. 3-4/10ths., tops 10-15,000', in Rhineland. Very good clearances late in night in Munich area. Algeburg: doubtful amounts, probably 5-7, 10ths low and medium cloud, but possibly 7-10/10ths at any one time.

France:- Well broken convention and layer cloud over W. coast, with good visibility. Cloud will disperse to small amounts inland.

30.50_32.	> >	Bombing Nine- Leaf-
(a)	No. of a/c despretched	4 33 7 2(recalled) 1(fech 0
(°)	No. of a/o missing	0 0 0 0 0

..... WEATHER EXP RIENCED

WE THIR EXPERIENCED.

6. Bases: - Mist and fog afficited Lines. and 5. Yorks during the night, localities in East Anglia by down.

Esson: 4-6/10ths str.to-cumulus, tops (, Ca. Good visibility.

W. France:- 8-10/10ths strato-cumulus, decreasing to 4-6/10ths in Base 2,500' in N., with patches at 800', and 4,500' in S., tops 6,000'. Late arrivals reported 10/10ths at 1,500', with light rain. Good visibility

He moon over target areas.

ENDINY PUFLINES.

7. Moderate but accurate flak ws encountered from Essen. Light flak guns engaged our minelayers from many points along the west coast of France, and from outlying ships. 2 fighters were observed, a Ju. 88 over the Cherbourg peninsula and a twin-engined aircraft south of the Girondo estuary.

CASUALTIES.

8. One Stirling failed to return from the Giranda. There is no evidence of the cause or place of less. No other dange was sustained.

ML:/IAS. BC/S.%5342/3/ORS.4. 14th January, 1944.

7/8th. 110/330mm, 1963.

integrated.	Test .	ALRCRAPT	Fred Court		TOATING.		PATER S	2000		203	CCE	12000000	INTERCES	71013	1
TARGET	GROUP	TYPE	BOSTINE		COK ON		C153	1035-		1:662.30	ITSC.	C/2100H	ATTACK-	MOY	1
		100000	3	ARRA	ARRA	E. Z.	OVER.	ILC	FL.J.	PLHEYER	FLUGT	CARRES	150	20.0%- 10.	
R83E4	B PFP	Mong. IX	6	4	-		2+			-		-		-	1-
MINSL, VING BREST	-1	Well-X	5	5			124	1	- 2	-			100		10 mines
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37. 3.2.132	T .	fell.X	. 5	4	-	-	1	+	-	-	-	-	1 -	-	8 mines
GT 60 TE	13	Stir.III	10	9	-		-	1		-	- +			-	17 mines
L. AJJICS	3	Stir.III Lanc.II	3	3	-	-	-	-				-	1		9 mines 6 mines
B.YOUE	. 3	Stir-III	2	2	-		-	-		-	-	-	-		6 mines
BT.JII. DE LUZ	3	5tir-III	3	3	-		-	200	-		-	-		-	6 mines
MINEL YES	107.3		35	33			1	1		2			_		72 minus
N. FAJ CE	91	Well.Ic	3	3	-			2040	-	0 4 0000	-	-	2.4	40000	
7	91	Well-III	1	3	-	1	1	- :	- 1	1	1.	-	1	1.	
TOTAL			7	7				-	-	-					
(12AF)		Portress	2	2	. 1/6	_	_ 3			-	-	-		-	
70741			48	44			3							-	

⁹¹ Group to ST. M.LO - .LEMCON. 92 " - .EGENTAN - ALENCON - LE MANG - L.V.L.

[&]quot; NOT INCLUDED IN TOTAL. " Recalled - Fech. Defect ground station.

BOMBER COMMAND REPORT ON NIGHT OFFICENS.

8/9th NOVEMBER, 1943.

Duisburg : Cologne.

RY

Duisburg. 4 Mk.II OBOE Mosquitoes were despatched on a pregision attack inst the blast furnaces and steel works at Meiderich; but 3 experienced OBOE lure and bombed on D.R., and the fourth turned back with engine trouble. All simed safely.

Cologne. 5 Mosquitoes, not equipped with precision devices, carried out

THER FORECAST

Midmight frontal positions:- (1) occlusion from 60 F. 02 E. - 55 N. 0228.

Bases: Generally fit at dusk, with broken cloud at 2,000; but visibility I be very poor in 3, and 8 Groups and eastern airfields. Clear skies for him from S.E. Germany, but 5 and 8 Groups will need diversions. S. and W. sts, Scotland and N.E. England will be available.

Continent:- Along the front there will be a belt of rain and cloud, with a to 20,000' or above over North Sea, but below 20,000' over Channel and France. Exing level to 6,000'. Cloud will persist inland as far as 07-08°E., thence taring. Lugsburg:- probably small amounts of cloud, but a layer of strate-tulus, not more than 2,000' thick may remain. Very poor visibility.

TIES

(a)	No.	of	aircraft	despatched	7
(b)	No.	of	aircraft	despatched reporting attack on primary area sorties (engine failure1)	6
(c)	No.	of	abortivo	sorties (engine failure1)	1
(a)	No.	of	simmett	ini geing	0

JER EYPERIENCED.

Duisburg:- 9-10/10ths cloud, tops 15-20,000'. Good visibility above.

Cologne:- 5-6/10ths thin cloud, tops 10,000'. Good visibility above.

No moon.

DIY DEFENCES.

One Ju.88 was seen at Overflakkee on the honoward journey, Moderate any flak was encountered over Cologne.

SULTIES

All our aircraft returned safely. One Mosquito was hit by flak over Duisburg, it received only slight camage.

V/P.D. /S. 26342/3/07634. https://doi.org/1943.

LAGRE	ETHOOD.	L.D.C.APT	SORTIES	A/C N	MACHA TAKE	ABOR	LIAR	MISS-		Ded COX			INTERC		TONS OF
		TYPE		FRIM.	ALT.	OVER E. T.	NOT	1345.	PLAK	PERTER	MISG. IN PLICET	CAUSES	ATTACK-	HOY HILLOK- HID	BOMBS (N.B.
-				AJULA	APREM.	A- 1.	CVER E-T-				PLACETY				
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COLOGRE	8 P. F. P.	IES. IV.	3	3	-	-	-	-	-	-	-	-	-	-	P 2.7
	BOMBING	WOTEL.	7	6	-	1	-	-	1	-	-	-		-	

BCB/PVD.

LAGET	ICHOUS.	L.D.C.AFT	SORTING	1/C 10	G-CHT ING	ABOR	LIAR	MISS-	2000	Ded COX		and the late			TONS OF
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potentiko	8 P.F.Y.	108.1%	4	3	7	1.	-	-	-1	-	-	A	-	-	P 4.0
COLOGRE	8 P. F. P.	IDS. IV.	3	3	-	-	-	-	-	-		1.	-	-	P 2.7
	BOMBING	TOTAL.	7	6	4	1	-	-	1	-	-	J-4	-	-	

PCB/PVD.

LAGET	ICHOUP	L.D.C.AFT	SORTIES	A/C N	STORY INC.	APOR	LIVE	MISS-	2000	Ded COX				四月100年	TONS OF
1		TYPE	-C228563X	FRIN.	OK ON	OVER	INOT	ING.	Plak	PERME	MESC. IN	CAUSES	ATTACK-	NOT ATLACK-	HOMBS (H.E.
				ARK	AREAL	E. T.	OVER E-T-				PLICHT		/ //55=10 	130	200
ourspine	8 P.P.Y.	108. IX.	4	3	~	10	-	-	1		-	-	3-5	-	P 4.0
COLOGNE	8 P. F. P.	IDS. IV.	3	3	1.	-	-	-	-	-	-	-	-	-	P 2.7
	BOMBING	TOTAL.	7	6	· [1	-	-	1	-	-	-		-	

BCB/PVIA ORSA

BOMBER COMIAND REPORT ON NIGHT OPERATIONS.

9/10th HOVE BER, 1943.

Boohum : Duisburg.

SUDDARY

- t. Bochum. 9 out of 15 Mk.I OBCE Mosquitces despatched against the Vereinigte Stahlwerke blast furnaces at Bochum, bombed successfully by means of their precision devices. 3 experienced OBCE failure and attacked the primary on D.R. 2 attacked Cloesfeld and Recklinghausen, and one returned early with engine trouble. No aircraft was lost, but one was so badly damaged by flak that it was wrocked on landing.
- 2. <u>Duisburg</u>. 3 Mk.II OBOE Mosquitoes were detailed on a precision test against the Vereinigto Stahlwerke rolling mills at Ruhrort. 2 bended successfully on OBOE, and the third on D.R. for technical reasons. All returned undamaged.

WEATHER FORECAST.

3. Bases: - Weak warm front (midnight position: Catterick - Shoreham) will cause light showers and patchy low cloud below 1,500 throughout the night. Most bases will be fit for take-off, with visibility 2 miles, but conditions will deteriorate after midnight. Visibility will become very bad except in N.E. England and E. Sootland.

Germany: - Occluded front (midnight position: E. c. Hamburg - 50°N. 07°E.) will move south-eastwards across Germany, accompanied by much medium and low cloud; main tops, 10-15,000'. On either side of the front, there will be much strato-oursulus, with fog forming where breaks permit. Friedrichshafent probably 7-10/10ths strato-cumulus, 1,500'-2,000' thick, with tops at 5,000'; perhaps also 7/10ths medium cloud to 15-18,000'.

SORTIES

4.	(a) No.	of mircraft despatched18
	(b) No.	of aircraft reporting attack on primary area
	(c) No.	of aircraft reporting attack on alternative area 2
	(d) No.	of abortive sorties (engine failure
	(e) No.	of aircraft missing 0

WEATHER EXPERIENCED.

5. Ruhr: - 10/10ths strato-cumulus, tops 8,000'. 2-3/10ths cirrus above. No moon. Good visibility.

ENEMY DEFENCES

The most intense and accurate flak opposition was not from the defences of 500hum. Slight fighter activity was overheard from the St. Trond/Charleroi area but no hostiles were seen.

CASUALT IES

7. No aircraft was lost; but 2 were badly damaged by flak over Boohum, one beyond repair.

MLM/PVD. EC/S. 26342/3/CRS4, 15th Jenuary, 1944.

BOCHUM TOTAL ISEUM 8 REBORT) P.F.P. BOMBING TOTAL		7 15 3 18	PRIMA 7 5 12 3 15	1 1 2 2 2	CVNSR E.T.	NOT COVER L		18+ 1ac 18+		IN FLIGHT	CATSES			P. 13.8 a. 2.2 P. 4.0
BOCHUM TOTAL ISEURG 8 ISEURCH P.F.F. BOMBING TOTAL	MOS. IV.	7 15 3 18	, 5 12 3 15	2 2		1 1		18+ 140		-	-		-	4. 2.2 F. 4.0
ISBURG 8 ISBURT) P.F.F. BONSING TOTAL	MCS. DL	15 3 18	12 3 15	2 - 2		1	-	18+ 140		-	-	-	-	P. 4.0
ISBURG 8 ISBURT) P.F.F. BONSING TOTAL		18	3 15	2		1	-	124		-	200	-	-	P. 4.0
BONSING TOTAL		18	15	2		1	-	20	- S			1		The second second
			15	2	2		8		<u></u>					INO
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N.O.	nio.	ex												

BOMBER COMMAND REPORT OF NIGHT OPERATIONS

10/11th. NOVEMBER, 1943.

MODANE: Dortmund: Minelaying: Leaflets:

SUPPLRY

- 1. Modane 313 Lancasters were sent to raid the railway station and marshalling yards at Hodane. A most accurate groundmarking attack was delivered in full moonlight, 200 aircraft bombing within 1 mile of the aiming-point. Many hits were scored on the yards, tracks and station buildings, and the railway was still inoperative 27 days after the raid. No losses were sustained, although one aircraft cracked while taking off.
- 2. Dortmund 2 G-H Mosquitoes were despatched on a precision test against Dortmund. One bombed according to plan, and the other on b.R. because of the failure of its equipment. Both returned safely.
- 3. Minelaying 7 Stirling, laid 19 mines off the Prench Atlantic ports.
- 4. Leaflets 20 Wellingtons dispersed leaflets over allotted areas in Borthern and Central France, without loss.

WEATHER FORECAST

5. Bases: A cold front will move coross the country from N. Sootland during the night, giving a belt of bad weather 50 miles wide with rain, low cloud and possibly heavy squalls. 6 Group will be affected by 1900, 5 Group by 2100 and 3 Group by dawn. For take-off in the frontal zone, cloud base may be below 1,000; ahead of the front, strate-cumulus will be based at 1,500; behind, there will be little cloud and good visibility. Good flying conditions except in frontal zone, where tops should not extend above 15,000, and freezing level should not be below 5-6,000. For return (from S. France), all bases N. of Thomes estuary should be fit, with little cloud and good visibility.

Germany: Variable amounts of strato-cumulus in N., becoming patchy in Rhine valley; but here and in S. Germany, fog will develop extensively. Danzig: fog and low strato-cumulus.

Prance: Variable amounts of strate-cumulus, with fog in many places, but not imediately N. of the ..lps. Low layer cloud in F., base lifting above 1,000' tarly in the night. Modane: clear sky. Longer of valley fog.

1502.27

PLAN OF ATTICK

- 6. Route Selsey Bill Gabours 47°35'N. 00°45'E 45°12'N. 05°42'E 1000'E 47°35'N. 91°20'E 4500'E 350'Sey Fill.
- Route-marking Resepot fires were to be dropped at 45°41'N. 04°45'E. by all finder-illuminators, supported by all backers-up.
- E. Target-marking 6 coordight visual markers were to precede the finderilluminators. If successful in visually identifying the ciming-point, they were to mark it with red T.I; otherwise they were to use the flares laid by the finer-illuminators. These Clares were to be released at 10-second intervals either

...../on timed runs or after

on timed runs or after visual identification; but if the aiming-point was arked with reds, finders were to retain their flares and drop only books. flarelight visual markers were to drop reds visually on the aiming-point, a releasing identification flares; and backers-up were to aim greens at reds centre of all greens already dropped. Supporters were to identify visuall-possible, otherwise to bomb on reds. Main force aircraft were to aim at rearly in the attack, bombing on an exact heading of 090°T; later they were at the centre of greens.

```
Duration of Attack: 0053-0112
9.
       Timing
                   Zero hour: 0100 hours.
       Moonlight visual markers.
                                      6 Lancs. at zero - 7
       Finder illuminators.
                                     21 Lanca. at zero - 5
       Plurelight visual markers.
                                      6 Lines. at zero - 3
       Backers-up.
                                      2 Lancs. at zero - 2
                                     12 Lines. from zero - 1 to zero + 10 (1
       Supporters.
                                     28 Lancs. at zero - 3
       Main force.
                                    120 Lines. from zero to zero + 6
                                    122 Lancs. from zero + 6 to zero + 12.
                       Hoonlight visual markers: 8 red T.I. (4 LB)
Fince:-illuminators. : 6x4 white flares + one red:
        farker leads
                       Florolight visual-
                                 markers
                                                 : 1:4 white flures + 10 red To
                                                                     (5 LB)
                       Backers-up
                   WEHOW was to be dropped from the enemy coast to 47000 %.
(20 miles 2550 Bourges) on the outsard journey, and over the same area on the way home, at the rate of one bundle every 2 minutes.
SORTIES
        (a) No. of aircraft despatched.....
                          reporting attack on primary area......
                                           " alternative area.....
                 "abortive scrties (tech.defect or
                                          minipulative error.....12)..
                  " aircraft missing.....
WEATHER EXPERIENCED
```

13. Bases: At 2100, a cold front, accompanied by a belt of rain and is cloud, (base 1,500' and lamilly below) 50 miles wise, affected S. Yorks. Front moved rapidly S.E., troubling 5 Group from 22-2300, and the whole of Examplia by 0100, but clearing operational bases by 0300. About of the front, there was broken layer cloud at 3,000', with moderate visibility; behind, is cloud and good visibility.

Route: - 10/10ths. layer cloud to South Coast, thence variable anomal (tops 5,000') to 4620; thence clear to target. Visibility moderate to good with extensive fog in Alpino valleys. Similar conditions for return, but frontal cloud was not F. of Paris, with tops at 12,000', gradually rising to 18-19,000' over Channel, and 10/10ths. cirrus above at 25,000'.

Modane: No cloud. Good visibility. Slight ground haze. Full: Wind at 15-20,000': 0300/30 m.s.h.

..... ANIGHT PHOTOGRAPHIC ST. TISTES

14. No. of photographs plotted within 1 mile (by ground detail...154)....154

(" fire-tracks.... 0)

3.

- " outside 1 mile(by ground detail... 38).... 38

 (" fire-tracks.... 0)
- " aircraft estimated to have bombed within 1 mile............200

MURRATIVE OF ATTACK

all the visual markers arrived late, by which time the finders had dropped their flares very accurately and well on time. 8 visual markers identified the aiming-point, 3 found it obscured by snoke haze and held their T.I., but the twelfth, strictly against orders, dropped its reds on a cross-check of E.T.A. from Grenoble (48 miles from Medane), and on the position of reds already burning, without visual identification. This salvo fell \(\frac{4}{4}\) mile S.T. of the aiming-point, and diverted a proportion of the boobing. But most of the main force attacked the admirable concentration of reds and greens burning in the marshalling yards and around the entrance to the tunnel. ... salvo of reds was dropped at zero - 3, 1\(\frac{1}{2}\) miles E. of the aiming-point, and this attracted 3 tackers-up but, being beyond the main concentration, distracted few of the main force. Numerous explosions were observed as the fires gained hold.

DAY RECORNALISSANCE

16. 27 days after this attack the railway at Modane was still inoperative. The running lines were cut in 2 places, the parshalling yards received at least 8 direct hits and the sidings were practically capty at the time of photography. Many of the station buildings were hit and wrecked, and 4 hits occurred on the railway sidings. Rolling attack was derailed and severely damaged.

LITERALTIVE TURGETS

17. One aircraft released its bombs in the area of Montmelian.

SPECIAL EQUIPMENT

- 18. <u>H2S</u> Since the target at Modane is not of a type likely to give an adequate response on H2S, this device was used for newigational purposes only. 66 of the 86 Y-aircraft despatched reported that their sets were in order over the primary. None was lest.
- 19. GEE The Southern chain operated on the Carolina frequency throughout and on the Zanesville frequency from 0040 to 0140 hours and from 0440 to 0520 hours. Interference was strong on the Carolina frequency, but slight on the Zanesville, noise and railings being the most important types, and heaviest west and south of Paris. The signals on the normal frequency were stronger than those on the target frequency, and MB position lines were obtained to within 10 ciles of the target. The ranges were slightly above average, a raximum range of 360 miles being obtained on the Carolina frequency and 390 miles on the Zanesville frequency.

ENERY DEFENCES

- 20. Flak and Searchlights A little heavy flak and slight light flak was bet free about 8 guns at the target. No searchlights were operative and no apposition was encountered en route. One circumst suffered minor damage.
- 21. Pighters Few fighters were observed, although several single-engined aircraft were patrolling coastal areas of N. France to intercept returning boobers; the activity of these aircraft was limited by the frontal conditions. No attacks were reported, but 6 bombers opened fire on fighters, 2 in the target area. 16 ABC aircraft were cut, and their heavy jaming of VAF transmissions

...../probably contributed

probably contributed to the ineffectiveness of the fighter defences. No day was sustained from this cause.

CASUALTIES

1 ...

22.	No.	of	aircra	aft missin	g		
	•	**	**	damaged	(flak	1)
,				8750	(fighter	0)
				48	(Pritish incendiaries	1)
					(other causes	3)

No aircraft was lost and only one slight instance of damage from encaction was reported. One Lancaster crashed while taking-off and was destroy another was badly damaged on landing.

DORTH ULD

23. 2 G-H Mosquitces carried out a precision test against Dortmund. Cn bombed successfully by means of its special equipment; the other experienced technical failure and attacked on D.R. One was hit by flak; but both returned safely.

MINELAYING

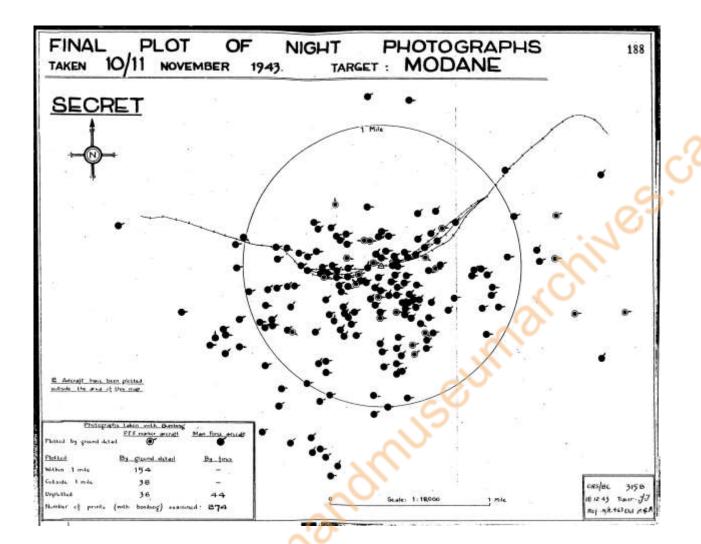
24. 7 Stirlings completed minclaying sorties off the French Atlantic cost One encountered a Ju. 83 near the Ile de Re, but escaped damage. All returns safely. 19 mines were laid.

LE FLETS

25. 20 Wellingtons, manned by training crows, dispersed leaflets over ton N. and Central France. One was slightly dranged by flak; no losses were sustained.

MLM/JT. BC/S. 26342/1/ORS4, 24th. December, 1943.

Fight Affine Fight Affine Aff	FRIM ARK	Fill State Fill State State	T.J.RGITZ	GROUP	AIBCRAPT TYPE	SORTING	∴/C I	SEPORTING	4.B0	GETIVE "	MISS-	[D.M.GR			INTER	CHTION	BOND TONILLIE
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MMM. DORRIDERC

BONBIA CONTAIN REPORT OF FIGHE OFFICIANS

11/12th. POVE TIE, 1943.

CARRES: Antheor Viaduct: Dusseldorf: Bochum: Berlin: Hannever:

Finelaying: Leaflats

TARY

- Cannes 134 Halifaxes and Lancasters were sent to the marshalling yards and milway repair shops at sames. It wast concentrated and accurate ground-trking attack was delivered by the light of a full moon and from a clear sky, but useful damage was done within the small target area, although the marshalling ras escaped destruction. A mireraft were lost, 2 probably as the result of a collision.
- intheor Viaduet. 13 Lancenters of 617 Squidron left to attack the antheor insuet, on the Franco-Itali n border; but 6 mistock a nearby bridge for the rimary and damaged it severely, while the main target was not seriously affected. All returned safely.
- Lusseldorf; Bochum: Berlin: (Lingver: Cosquitoes curried out precision Lucks on targets at Dusseldorf and Bochum; no hards ingraies against Berlin and Hannover. No hiroralt was lost.
- . Minclaying 39 Arcraft, out of a force of Af, laid 111 rines off the risins and the French Atlantic ports. 2 Archaft were lost.
- Leaflets 6 Wellingtons dispersed leaders meventfully over N. Prance.

TATHER FORECAST

i. Hidnight frontal positions:- (1) yern from 60°H-05°L. - S. Scotland - S.W. relund (2) cold from 55°L. 21°E - Numeriorg - Line et, then westwards.

Bases: - Rain and low cloud (below 1,500) will spread from the N.W., feeting northern bases by midnight; further 3., cloud will be well broken, ith moderate visibility. Light showers in East angle, from 0400-0500.

Germany: - Convection cloud to nearly 20,000' over North Sca, decreasing mind to small amounts over Central Gerandy, ". of cold front. In frontal zone, which cloud should not extend above 15,000', with acdium layer cloud above. Ricerichsh von: probably 10/10ths. solid frontal cloud to greater heights by

France:- Cloud should not extend above 12,000' in frontal zone. Residual invection cloud with moderate visibility to Fe: broken medium and little low should to S. Probably cloudless on Mediterranean coast, with good visibility; but putches of medium and high cloud may be found. Wind at 20,000'; 350/30m.p.h. increasing to 3200/60-55 m.p.h. on return, this side of 50°M.

CHES

HAT OF ..TT.ACK

Routo Selsey Bill-49°20'R.00° - 47°25'... 01°00': - 13°13'!',06°30'E - ...

....../f. Rouse- arking.

- Finder-illuminators of he seu Gron and backers-up o Route-marking Squidren were each to drip one rellow T.I. 37 3/0300 Leulen.
- Visu I markers thru to attempt to itentify the cal Target-marking point and nink it with red f. T. If un uccessful, they were to orbit the n another visual attempt in the light of the flores eresped by the finierilluminators; no if again unsuccessful, they were to retain their reas end greens with the backers-up. Each finder-inludenter was to release a striflores over the airing-print, either blindly on H2S or visually, after a ti-If the mining-point were obscured by cloud, they were also to drop yo T.I. (h H25; but if the visual markers had succeeded in dropping their red fin er-illumin ters were to retain their flares and T.I. Backers-up were greens at reds early in the attack, or at the estimated centre of all visibilities greens, with a 1-second overshoot in the latter eventuality. If early back could see no reds and insufficient greens, they were to aim at the centre of yellows, with a 1-second evershiet. Suppr ters were to identify visually, else to bomb on reds. If in force directift were to fin ut reds carry in the attack, and later at the centre of greens.

10. Timing 2 re h ur: 2230 Lur.t. ri .tt.ck

· Visu .l n .rkers . 8 Hils. it seld - 7 (or sere-3 if recessiry)

Fin er-illumin tors. 8 H ls.)

2 Lanca.) at ser - 5

Backers-up 2 1(.14.)

8 1. nos) from sur - ? to sero+7 (1 a/c per min.)

Supporters. 6 Hils. it zero - 2

100 H.1s. from sare to sare + 3 Main Porce.

11. lirker londs

> 8 H.1.: 4 red W.T. (LB) + 1 green f.1. Visual markers.

Finder-illumin tors.3 Halo: 524 white fines - 2 yellow f.I. (LB) 2 Lune: 524 white fieres - 1 yellow f.I. (LE)

2 H .1.: 4 green T.I. (TLF) Backers-up. 8 L no: 4 green T.I. (2LB) + 1 yellow T.I. (LE)

- Testics (a) WIRD was to be dropped from the north coast of France 15 m/334 Chatcauroux, mi over the same distance on the return route, at the rate of one bundle every ? ninutes.
- (b) 12 mircraft of 617 Squidren were to attack the antheor viaduot, then proceed to Blide in Alth Arien. These sires It were not to carry W.

SCRTIMS

He. of direr ft desyntched.....

* ditternitive are:..... abortive serties (technic 1 lefecti...?

.iroraft missing.....

WINTER EXPERIENCE:

Very variable layer class, base not below 1,500'. A belt light showers and drissle moved refees the country from the A.T., covering Yorkshire at midnight in the flecting Bist and it by Ohor. Durt from mist i latter area during in the might, visibility the concrete and crate.

Route:- 4-6/10 the. strate-cum is ver 6h mol, tops to 5-8,000'; cloudless, but very high, to 60%, there is the close was encountered.

...../cf low olec

flow cloud 10,000' (cocasionally 15,000'), base of nedum cloud 18,000'. These enditions prevailed for 50 miles, when medium cloud dispersed; and low cloud broke to nil 20 miles from Cannes. On return, broken Layer cloud with broken medium . sleud above was encountered beyond 49%, increasing to 10/10ths, over bases. and at 20,000': 350'/20 m.p.h., swinging to 320' over 3.T. France.

Cannes:- l'o cleud. Good visibility. Juli moor.

Wind at 15,000' 0100/5 m. ... Surface wind: light northerly.

TONT PHOTOGRAPHIC STATISTICS

	۴.	Mc. et	photographs	plotted	within	1		ground detail74)101 Fire-tracks27)
1	100							

outside " (by ground detail...10)......10 (by fire-tracks......0)

" aircraft estimated to have booked within 1 sile of aiming-

MATATIVE OF ATTACK

to. 7 of the 8 visual nurseus identified the target by the light of the full noon, and marked it with red and green T.T. Perbing from 5,000', they shieved an excellent concentration, everlapping the years and centred less than raile E.M.V. The backers supported accounted; on the raile, except one whose photograph was plotted in all of this aircraft direct visually instead of a the T.I. The Main rerect bombed shight y F.C. The original concentration, traving the centre of attack about & mile than the language.

A.V RECOVERLISSINGE

The railway repair and is of S.L. des Athliers do L. Locca received several direct hits, which neverals a maged one hill of the anim building and lastrayed one large adjoint shop. We direct the visible in the marshalling parts, but the wagen repair shop suffered from that, and a ricus destruction was based in the directif factors of Sec. Fations the Constructions teromutiques au Sal-luest, including a direct hit on the thin associal half. We craters were take in the landing area of the Constantial click L/C, where a hanger was partly leadlabed, and a small manustrial plant insolintally F. of the yards was firtually destroyed. Sectioned durage was a middle residential and other buildings in this area.

LIMILTIVE T. PORTS

'6. One direcaft dropper its bombs on the Cooks at Lo Havro.

FECIL POSITIONS

H2S 10 finder-illuminators were instructed to cropic. on H2S, only if the target were obscured by clou. The sky was older ever Connes, and only one directift used H2S while basising, to condite his position. Altogether, & Todar were despetched; 30 of these reported that their sets were in their throughout the trig. 2 Yourselft were lost.

KINY DEFE CES

- The Place and Searchlights I little flak was encountered over the target from 2-3 he vy guns and about Tight guns, with J se rehlights. Ships lying off the exist fired some light Time supposition was reported on route, except at H wre, where aircraft were bothly engaged. No flak damage was sustained.
- 21. Pighters One Fe. 1.0 ml me unidentified single-engined aircraft were engaged in combat in the Connectore; elsewhere, a few fighters were observed/in the regions of Caen/Chartres

in the regions of Chen/Chartres an . Bourges/ culture. Interespeted wireless traffic suggested that most of those were C.R.L. comprehens the low Willow coverage made our bombers comparatively many togets for a mirelied fighters the clear mornlight. One circumfit reports fighter dense.

C.SULTIES

•	 		(fl.k)	4 13
	 505			50.0
			(fighter 1)	2

2 of the missing bombers were probably insured to and shot down by controlled fighters on the return journey, it does not the teacher 2 may have collided in the target are; but the observations related to the needlest disagree in certain details, and the emperiment of these airs is unknown.

JUNEOR VLDIOT

23. 10 Lineasters of 617 Squidren were detailed to carry out a precision attack on the antheor Violuet, which had been unsuccessfully visited on 16/17 September, 1943. The attack was delivered from 6-8,000', using the 12,0001 H.C. book and the Same. S. 12. His booksight. Practice results had indicated that at least one hit would be obtained within 10rt, of the violuet; but on a mireraft booked the primary, the other 6 mint benefit at tacking a nearby will bridge and cobankment. Reconn issuance should the violuet to be intact, although and apparently been accessitated to the upper surface. The bridge and opportunity been accessitated to the upper surface. The bridge are y, which had been mistaken for the primary, surfaced considerable conge. No opposition was encountered, except from a familiar lying off the coust, in a casualties were sustained.

LUIS LOCK

24. 12 Mk.I OBOE Mosquitoes were dosp tohout in a precision attack against a steel and armaments works of Mhoinmetall Bornig A.G. at Dusseldorf. 8 made successfully controlled runs, and 2 borne the arrange in L.A. because their devices had failed. One attacked achie, an one returnal early for techniqueness. 4 circust were hit by fall, but a ne seriously; one no casualtic were sustained.

POCHEL

25. 3 MK. II OBOD Mesquites: left for the blant furnices and armaments were of Vereinigte Stahlack, at Bookan. 2 bedded in CROM and the third on D.R., since it was unable to keep or true. All returned surely; one was hit by flake.

1350 F.

26. B Mesquitees, het equipped with precision devices, corried out an uneventrul horassing raid on Fermin. The city was occurred with cloud and more results could be seen.

H 2740VEC

MINITARY THE

45 aircraft were fetailed an a mining operation off the Prisians and the ach atlantic perts. 39 reached their tirgets, bying 111 mines. 2 aircraft clost; one was seen coned by searchlights and shot lower by flak at Lorient. The is no evidence of how the other cime to grief.

LYFTITS

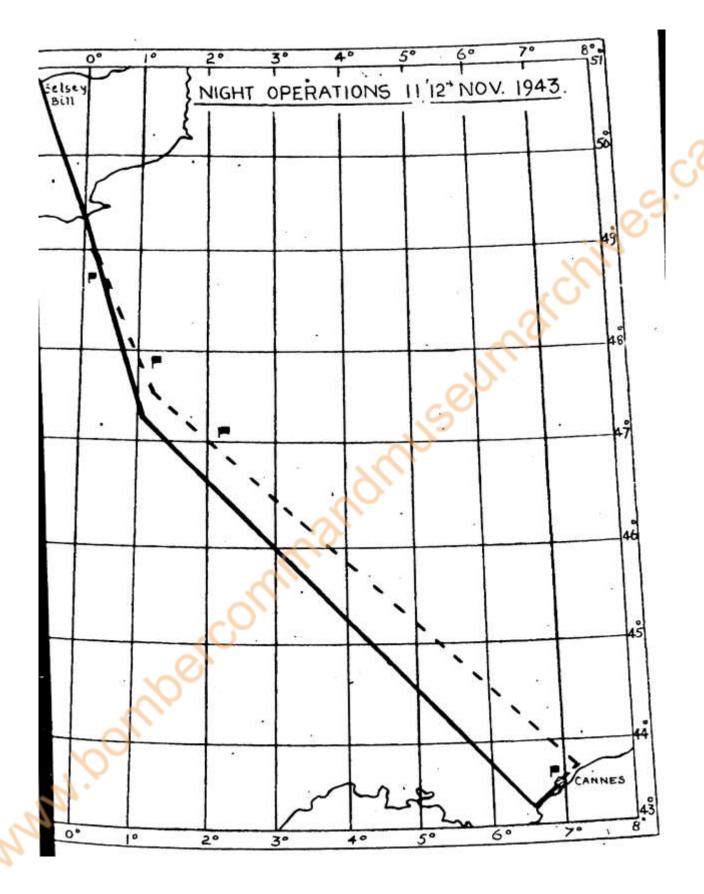
6 Wellingtons, manned by gapil creas, laspersed laffets uneventfully over

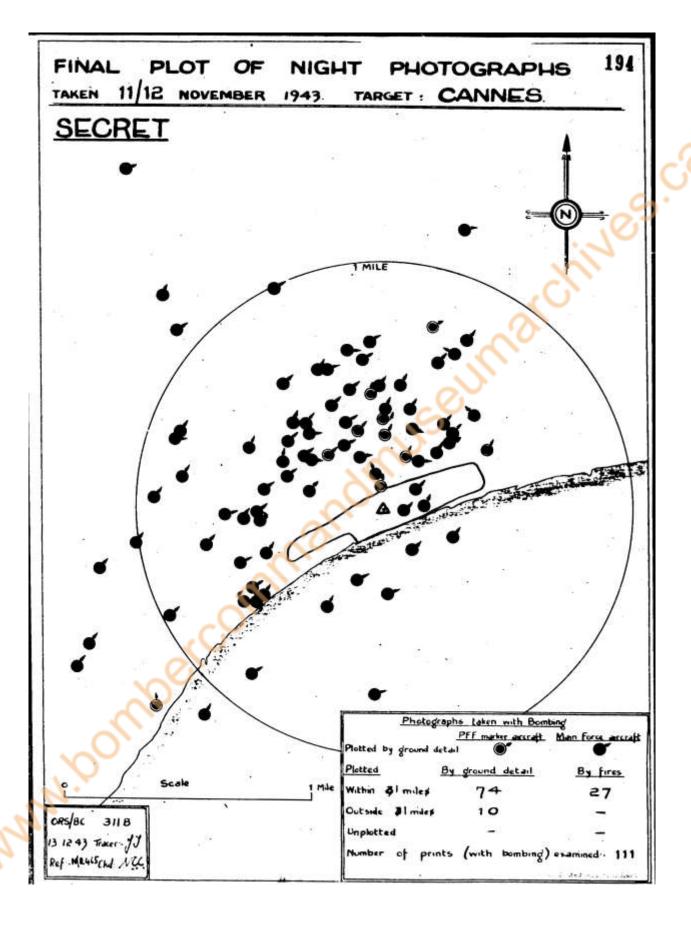
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BOUBER COMMAND REPORT ON NIGHT OPERATIONS.

. 12/13th NOVEMBER, 1943.

Dusseldorf : Krefeld : Essen.

DOM_RY

- Dusselderf. 2 Mk.II OBCE Mesquitees, one equipped with "Fountain-pen" at the other with "Fenwiper", were despatched against the Rheinmetall Boreig G. at Dusselderf. The latter aircraft received poor "neuro" signals, and the couragy of its bombing is doubtful; the former's transmitter was unserviceable, and it bombed on D.R. from a GEE fix. Both returned undamaged.
- Krefeld. 3 Mk.II OBOE Mesquitoes (2 "Penwiper" and one "Fountain-pen") ere sent to bomb the Deutsche Edelstahlwerke at Krefeld. The "Fountain-pen" iroraft returned early, because the navigator was suffering from bends"; one Penwiper" attacked according to plan and the other on D.R., because of cutting ignals. All returned undamaged.
- heir special equipment without incident.

KATHER FORECAST

. . centre of low pressure moving south-eastwards from the Shetlands will be centred over S.Denmark tonight. Midnight frontal positions: (1) cold from W.W. Scotland to Lines to Ruhr to centre of low pressure. (2) warm from centre to Stettin to Breslau to Nurmberg, becoming (3) cold to Brest. (4) cold from 8 N. 20 E. to N. Italy.

Eases: - Broken convection and strate-cumulus cloud, with good visibility. Equall showers of hail and sleet near cold front.

Germany: - N. of 50°N., much cloud at all levels and extending to great mights. Cloud to 10,000', with thin layers above, along frontal belt S. of 0 N. Much layer cloud S. of 48°N., with a few breaks in S. Much strate-burnlus in Vienna area.

France:- Similar to conditions in corresponding areas in Germany, because of the fronts covering both countries. Good clearances in S.; base of strate-rumulus: 1,500-2,000.

North Sec: - Convection cloud to above 20,000', with heavy squally showers of hail or sleet.

SCHTIES

(n)	No. of aircraf	t despatched 7
(b)	No. of aircraf	t reporting attack on primary area
(0	No. of abortiv	e sorties (navigator sick1)
(a)	No. of aircraf	t despetched

EATHER EXPERIENCED.

6. Bases (8 Group):- Fit durin operational pariod.

Ruhr:- 10/10ths to 10,000', with large olear gaps. Excellent visibility.

ZNEW DEFENCES.....

ENEMY DEFENCES

7. Nothing of interest was reported on this night with regard to the endefences. No fighters were observed.

CASUALTIES

8. None.

HLM/PVD. BC/S. 26342/3/ORS. 16th January, 1944.

LEET	GROUP	_ IRCRAPT	CONTINE	4/C H	ELCHLING			MT35-		The Carlo					TCS	3 OF
		THE		ATTA FRIM. JUKA	ALT.	OVER E. T.		DiC.	Fluik	PICH- TER	MISC. IN PLIGHT	CAUCES CAUCES	ATTACK~	NOT NOT		(н.
XCSSELLXORD	8 P.F.F.	MOS. IX.	2	2 .	-	7		-	-	-	-	-			(P)	2.7
CEPELD	8 P.F.F.	MOS. IX.	3	2	(-	1	-	-	-	_	-	-	_	(P)	2.5
SSEN	8 P.P.F.	NOS. IX.	2	2			-	-	-	20			-	4	(T)	2.7
	ONDIDAC	TOTAL	7	6	-	-	1	-	100	E0	-	3	-			
		, nic	erc						-							4
	OC C		eic													

BOLHER COLLIAND REPORT ON NIGHT OPERATIONS.

13/14th HOVELBER, 1343

Berlin : Bochun

YEARL

Borlin. 9 Losquitoes were despatched on a harassing raid against the ermon capital. 5 bombed the primary on D.R. from pinpoints or CEE fixes; 2 stacked Bromon and Enden, and 2 returned early. No capualties were sustained.

Bochum 8 Hosquitoes equipped with ODOE 12. I left to attack the Bochum much of Vereinigto Strhlwerks. 5 bombed by means of their precision devices, at 2 on D.A. because their equipment had failed. The eighth returned early.

LATHER FORECAST

. Unsettled conditions over the whole Continent for 24 hours, with strong over winds and cloudy conditions.

Bases: Outbrooks of rain, moderate at times, but never affecting more han half the country. Cloud everywhere above 1,000'. Moderate visibility. 5 Group will have bases available all night, with cloud at 1,500' and good visibility.

Continent:- Euch medium and convection cloud to great heights S. of 51°N., with rain. Euch heavy convection cloud on N. consts. Area E. of Bordeaux: 9-10/10ths lyer cloud, base 1,500', tops 7-8000'. Visibility mederate to good. Area S. of Brussels:- much thick low and medium cloud.

SORTIES

4.	(a)No. of :ircraft despatched	7
110	(b) No. of aircr ft reporting attack on primary area	12
9	(c)No. of aircraft reporting attack on alternative area	2
	. (sicknoss of crow 1 - technical defect	
	(d)No. of abortive serties (technical defect	3
	(o)No. of aircraft daning	

TATHER EXPERIENCED.

Fitches of cirrus at 30,000'. Clear above cloud. He moon.

Bochum. 10/10ths cumulo-nimbus, tops virying between 10,000' and 20,000'. Good visibility. No moon.

RELY APPRICES.

6. He fighter activity was everheard, although one Ju. 88 was sighted W. of Inden. Heavy flak was encountered at Hannover, Stendal, Enden and Bochum, particularly the last named town, where 2 mireraft received minor demage. No guns or searchlights opened up at Berlin.

CASUALTES

7. All our aircraft returned safely. 2 slight instances of flak damage were reported.

102/FVD. BO/S. 36342/2/ORS4. 1621 January, 1944.

BERLIN: BOCHING:

13/14th. NOVEMBER, 1943.

TARGET	CDOTT:	anythe	SORTE		DOME DIG	ABOR		мізя-		DUCCE		- 12-1	Direct	EPTIONS	TORS OF BOMBS
	GROUP	TYPE	SORTIES	PRDL AREA	ALT - AREA	OVER E.T.	NOT OVER	ING	FLAK	PIGHTER	MISC.	OTHER C.USIES	ATTACK-	ATLCX-	TORS OF BOMBS
BOOREADE	8	ibsq.IV	9	5	2	-	Z.T.	-		-	PLIGHT	-	-	KD.	P. 4.5
BOCHUE!	8	7Dsq.IV	1	1	-	1-	-		-	-	-	-	-	-	a. 1.7
BOCHTE: T	OTal	lineq.IX	8	7	-	1	-	-	2	-	-	1	1	-	P. 8.9
BOUBERS	TOT.L		17	12	2	1	2	-	2	-		-			1
BOUBLIC	T.TOT		17	12	2	11	2		2	L	L-:	L -			A
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BOUBER COMIND REPORT OF MIGHT OPER TIONS

15/16th. NOVE BEP, 1944.

Bonn: Dusseldorf:

SURCL RY

- 1. Bonn 2 G-H Mosquitoes were despatched to attack the city centre at Bonn; but one returned early with engine failure, and one was lost without trace.
- 2. Dusseldorf . 10 OBCE Mosquitoes (4 Nk.I, 4 Nk.II Penwiper and 2 Mk.II Fountain-pen) were detailed on a precision attack against the Rheinmetell Borsig -G. at Dusseldorf. 2 Mk.I aircraft attacked the primary, one on OBCE and the other, whose signals faded just before the time of release, on D.R. One Mk.I aircraft attacked Duisburg on the failure of its device, and one returned early. None of the Mk.II aircraft bombed according to plan; 3 experienced complete OBCE failure and attacked Dusseldorf, Krefeld and Duisburg respectively on D.R., one failed to hear the release signal and bombed 1½ minutes late, one was hit by flak while running in and had to switch off just before releasing; and the sixth, which is believed to have attacked the primary, was lost without trace.

WE THER PORECLIST

Generations over Europe are slightly improved, but still very unsettled.

Bases: Backing of wind should result in bether conditions, with well , broken convection cloud at 1,500-2,000', and good vasibility. Wintry showers in East Anglia, with cloud base lowering to 1,000-1,500'. Warm front moving S. from N. of Scotland.

Germany:- Nuch heavy medium and convection about, general tops 20,000', locally towering to 25,000' or above. .. few local breaks.

France: - Convection cloud over F. constal areas and high ground in S., with tops 15-20,000' and a few breaks. Good cleurances in centre. Little cloud over S. coast.

SORTIES

L.	(a)	No.	cf	aircraft despatched	
	(b)	H	11	" reporting attack on primary area 4	8
	(0)	**	**	" " " alternative area	
	(d)	.,	11	abortive sorties (technical defect	5
	(e)		11	aircraft missing	
				(16.7	13)

TE THER EXPERIENCED

4. Bases: - Broken cloud above 2,000', with good visibility. Persistent showers over East inglin coast.

Ruhr: - 10/10ths. cleud, tops 10,000'. Good visibility.

ETMY DEFENCES

5. Intense and accurate heavy flak was fired through a gap in the cloud over busseldorf at illuminated targets. 3 aircraft received niner damage.

Some activity by controlled fighters was overheard, but only one was dire against our bombers, and none was observed.

C.SULTIES

6. One G-H Mosquito and one OBOE Hosquito, detailed for Bonn and Dusse respectively, were lost without trace.

MLN/JT. BC/S. 26342/2/ORS4, 16th, January, 1944.

15/16th POWRESS, 1963.

T.SGET	GROUP	TYPE	SORTIES	/C R	CONT.THIS		3:17E	MISS-		TAPLER	colinaci		DWEST.			SULTS S OF BOMB
The state of the s				PRIM.	JUL.	CVER E.T.	OUER E. T.	ING	YLA	MICHANIS	HISC. IN PLIGHT	OTHER C.JEES	-XILOK- CH	INT III ZICK- IID		н. е.
BOIE!	SPPP	Mosq.IX	12	V	-	, .	-	1	-	1		-	-	-	P.	0.7
DUSSPLEORF	8	Mosq.IX Nosq.IV	8 2	3	3	- 1	1 -	1	3 -	1	-	-	1	ī	P- 11- 14-	4.9 4.0 1.3
DUSSELDORP 1	OLT.		10	4	3	1	1	1	3	-		-	-	-		
TOTAL .			12	4	' 3	2	1	2	3		100		-	6		

BOMBER COMPAND REPORT OF FIGHT OPER MIO'S

16/17th. NOV : BZR, 1943.

Krefeld: Cologne: Gelsenkirchen: Leaflets:

RY

Krefeld 9 Mk.I OBOE Mosquitoes were despatched mainst the steel-forging rolling mills at Krefeld. 5 made satisfactorily controlled runs; 2 rienced partial failure of their equipment, and booked on D.R. One raided arm and one returned early. No casualties were sustained.

Cologne 5 Mosquitoes, not equipped with precision devices, carried out meventful harassing raid on Cologne; a sixth returned early.

Gelsenkirchen 6 Mosquitocs, not equipped with precision devices, made a ssing raid on Gelsenkirchen. ...ll returned undamaged.

Leaflets 8 Wellingtons, manned by pupil crows, dispersed leaflets entfully over Northern France.

HER FORECAST

Midnight frontal positions:- (1) occlusion from 60°N. 00° - 55°N. 030W. herporth, thence (2) wart to 48½°N. 10°N. 93) wars from aberporth to 53°N.

Pases:- Generally fine, with increasing medium cloud and broken low cloud. precipitation until after midnight. Wintry showers in coastal areas.

Germany:- A trough will lie at midnight from Humburg to 50°N. 11°C., ing a belt of heavy ornvection and median cloud to 20,000'. Ruhr: 4-8/10ths. 15,000' or above. Munnheim: better chance of breaks, but risk of 10/10ths. conditions on route near French coast.

W. France: - Low cloud and rain or sleet over Breat peninsula. Well broken vestion cloud further S.

(a) No of aircraft despatched. 21 8 8 8 8 6 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9				12 AND 18	-0.07		-	
(b) " " reaching primary area	(a)	ne.	cf	aircraft despatched	21			8
(d) " abortive scrties (icing	1	"	**	reaching primary area	18			8
(d) abortive scrties (icing	(c)	4	11	" " alternative area	1			0
(e) " " aircraft missing	(d)	п	•	abortive scrties (icing)	2	••••	•••	0
	(e)	11	"	aircraft missing	0			0

Bases: - Cloudy, base occasionally below 1,000'. Showers in Norfolk.

Ruhr:- 8-10/10ths., tops 15,000'. Centrails from 26-32,000'. Good

Y DEFENCES

There was no evidence of controlled fighter activity on this night, and no yearcraft were observed. Excerate but accurate flak was encountered from

Ruhr targets; searchlights were unable to penetrate the cloud. A Wellig which flew over Rouen was heavily engaged and hit.

C.SU.LTIES

9. All aircraft returned safely. One Wellington received minor flat damage.

HEN/JT. BC/S. 26342/2/OFS4, 17th. January, 1944.

16/17th, 10V/20102, 1943-

	T	LEGELPT TOPE	SOMTES		PORTING		TIVE	HESS-	T	IMPERIE		Care William	DAL STEE		TCCE	OF BOIDS
T.R. II	GROUP	THE	3010 114	PRIM.	LET.	E.T.		Ing	Plak	PIGH751	D: D: DIGHT	CAUSES	.TT 16-	NOT TT.:CK- MD		H. E.
Kared	8 PFF	Monq. IX	7 2	6	1	•	1	5	-	1	=	-	- 1	1	P.	6.3
OGPRID TO	Y.J.		9	7	1	-	1	-	-		-	-	7 - 2 - +-	-	_	
COLOGNE	SPFF	long.IV	- 6	5	-	-	1	8,0 7 ,0	-	-	-	-	4	-	P.	4.5
GELSENKTIC	an Sepp	Hooq. IV	- 6	6	-	-	-	+	-	-	-		-	-	P.	5.4
BONGBING TO	YLL		21	18	1	-	2	-	-	-	-	+ -	-	-	_	
N. PRUICE	92	Well-III Well-X	5	5		:	100	2	1	:	-	:	1	:		
LEIFLER 70	TL		8	8.	-	-	*	Til		-	-	-,	-	-	_	
TOTAL			29	26	1	-	2		1				- 1	-		

92 GROUP TO: - CREATE - AMENILE - DECREE - ELVISS

. YOURS - HEATS - LNGERS - L. PLECHE

POISER COMMEND PERCIAL OF PERMIT OF THE

17/13th. HOVE BER, 1943.

LUDWIGSHLVEN: B rr.: Bergin: Bookur: Fortein: Le Flets:

SUPPLIEY

- Ludwigshaven For the first time, an operation of considerable size was carried cut entirely by X-ironaft, 83 Managers and Halifaxes delivering an accurate blind-bombing attack against the 1.7. First-mindustrie at Ludwigshaven. For than 20 building, in the factory were hit. One aircraft was lost.
- 1. Benn: Berlin: Bechum: Hanbern; Margiateen race a diversionary attack on Jone, Cropping T.T. and puzzling the fight receiveller; and others bombed Berlin, Bechum and Hubbern. All returns unfely.
- Leaflets : 3 Vellingtons dispersed leaflets over N. France; a fourth returned early. No casualties were sustained.

T.SER FOR C.ST

- Hidnight frontal resitions: (1) cold coclusion from 54°N. 04E. - Kent - 1. England (2) warm from 50°N. 17E., cantualle (5) will from 51°N. 19E., subswards.

Eases:- No difficulties apart from shows a in E. and local smoke in Ellands. Broken layer and convention clead; for stal tops in S. should not extend above 10,000'.

Germany: - Convection cloud to 20,000' and level over Harth Sea, decreasing southwards over W.Germany. Well broken struct - must be over Fields Rhine and S. Strumy. Much medium cloud, low cloud and snew showers E. of 13°E. Ruhr: 7-10/10ths. Berlin: chance of good breaks. Mumbein: 7-10/10ths. layer find, probably strate-cumulus; moderate visibility, deteriorating steadily. Suvection tops to 15,000' over Channel, lowering inland.

France: - Broken strate-cumulus in N., variable amounts in centre and little in S.

Demark: Slightly broken convection and layer cloud.

LUPATI PREZZZ:

TTICK

- Route:- Beachy Hend 5001017. 0105217 5000417. 0705018 MEMICSELVEN 4902318. 0400018 5001017. 0105212.
- Method of attack 03 heaving of 5 Group, all equipped with H2S, were to both the target blindly by some of their special equipment. If their sets were unserviceable, they seek to look visually, as to aim at concentrations of techs on the ground.

Timing 62 Lines. in 21 LL. . i re hour (2000 hours)

	2.	
1000	8. Bomb Londs 21 Halo: 6 x 1,000 d.D. (LD) 22 Lance: 5 x 2,000 H.D. 40 Lance: 7 or 1 x 4,000 H.C. + 6 x 1,000 H.C.	<u> </u>
	9. Tactics 4 Mesquiters were to rake a diversionary attack on Bonn at zero - 25, dropping red and green T.I. WHENCH was to be used at the rate 2 bundles per minute from 50005N. 06020E. (26 miles/3260/Trier) until the supply was exhausted.	20
1575	SCRTIES .	2
	10. (a) No. of aircraft destatched	İ
	VALATHER EXPERIMICED	
	11. Bases:- Duch cloud in D., tell broken in W. of 8 Group; base 2.	1
	with a few patches of low str t.s and nederate to good visibility. Shows	
	Route: Light icin; in climb through cloud over England. 7-8/s cumulus at enemy coast, tops 10,000', ecclesionally 15,000', but lowering m 03°E. to 6-10,000'. Then c, i'r, breaks in cloud, which dispersed to mit 07°E. Ludwigshaven: Small y what of law cloud only. Hazy. Pear visibility. Half scen route on return route at zero + 60.	
	TIGHT PHOTOGRAPHIC STATISTICS:	ı
	12. No. of photographs plotted within 3 miles (by ground detail15). (by fire tracks16)	
	" " outside " " (by ground detail 4). 'by fire tracks0)	22
	" " unplotted	•••
	" miroraft estimated to have bembed within 3 miles of aiming-point	
Ť	aircraft reporting attack	
	NARRATIVE OF ATTACK	
	13. 75 of the 83 Y-mirorift casposing the total force reached the target one was unable to release its books owing to a failure in its electric circuit. 43 beabed on H25. Inotographic evidence thereof that they were accurate, with probable errors along track (range) of 1½ miles and across (line) of only ½ mile. 60% of the books dropped on H25 are estimated to fallen in the built-up area of themselvy Lucwigshaver. 31 aircraft resolutions.	cal e ve tra hav

circuit. 43 bended on H25. Inotographic evidence shared that they were ve accurate, with probable errors along track (range) of 1½ miles and across track (line) of only ½ mile. 60% of the bends dropped on H25 are estimated to have fallen in the built-up area of thembein/Ludwigshaves. 31 aircraft resched target with their sets out of space, and bended on either the centre of the bursts, E.T..., or the fires surming in the works of I.C. Parbenindustrie. Nearly half the force reported seeing T.I. although none were dropped by our aircraft.

DAY RECOUNTAINS ANOT

14. This attack damaged 20 buildings or other structures of I.G. Farbening some seriously, and caused scattered destruction in the town.

...../.LIKENATIVE TARGETS.

THE TARGETS

. 4 aircraft attacked alternative targets, in the areas of Saarlautern, risruhe, Schifferstadt and Piroasons.

ON DEFENCES

Flak and Searchlights The heavy guns of Mannheim fired a moderate rage to 16-18,000ft. Hany searchlights were active, but haze obscured their as, and their main use was to provide a background for the fighters. 5 coraft received minor damage. 3 balloons were seen at 3-1,000'.

Pighters The running commentator plotted our beabers accurately along a route to the Trier area, but then become greatly confused, and failed to making the main target until the brief attack had been completed. Haze and a cloud, with a threat of fog, reduced the enemy's effort; 61 sorties were theard, but no interceptions were reported, although tany fighter flares were id across the approach to the target.

JITIES

The missing Lancaster is believed to have been shot down by a fighter in a Mannheim area. No serious design was sustained by any other aircraft.

10

. 4 Mosquitoes, not equipped with precision devices, carried out a versionary attack against Bonn, dropping red and green T.I. on D.R. 25 minutes fore the main effort began at Ludwigshwer. All returned undamaged.

BLREIN

7 Mosquitoes, not equipped with precision devices, were detailed on a russing attack against Ferlin. 4 bombed the capital on D.R., the other 3 turning early for technical roasons. 10/10ths. cloud prevented any pervation of results. All returned unduraged.

POCHIE!

2 Mk.II OBOE Mosquitoen, equipped with FOULTARY, were detailed to track the blast furnaces and arguments works at Bochus, but lecture of Eserviceable transmitters neither could make a controlled run. One bombed the linary and the other Essen, on F.K. From the fixes. Loth returned safely.

H J BOTC:

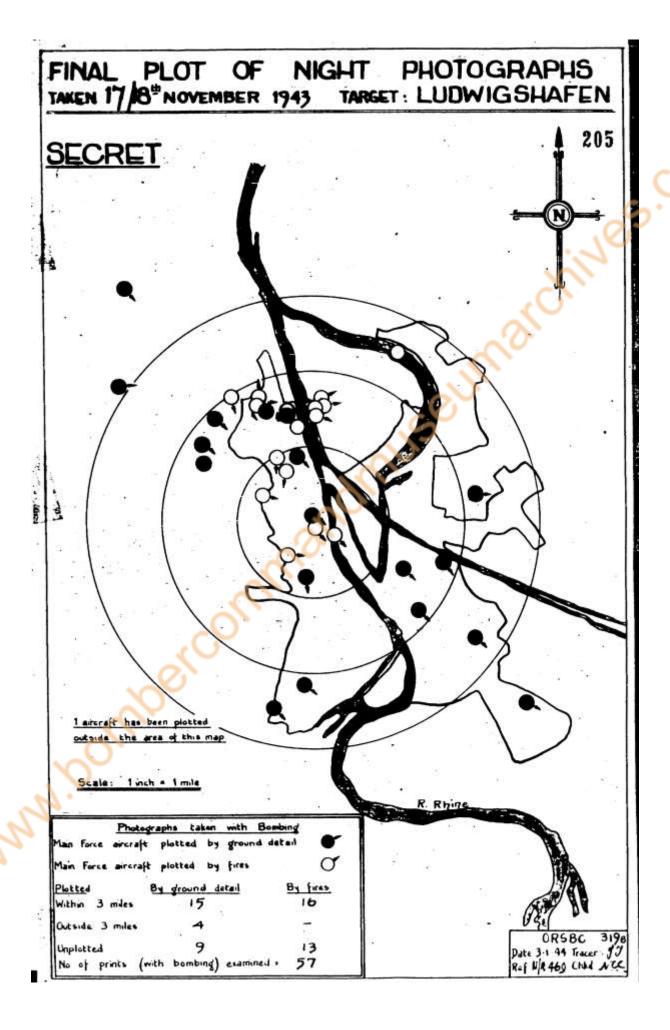
5 Mk.I and 3 Mk.II (PHWIMER) OBOE Mosquitoes were sent on a precision id against the blast furnaces and rolling mills at Laborn. 4 Mk.I and 1 Mk.II brandt made satisfactorily controlled runs; the other 3 bombed the primary on f., 2 because of complete OBOE failure and the third on account of inadequate small. All returned safely.

I.T. LETS

. 4 Wellingtons were sent to disperse leaflets over N. France. 3 completed their task, the fourth failing through bad nevigation. All returned undamaged.

%. 26342/5/ORS4, th. January, 1944.

- 1	TARGET	GROUP	AIRCRAP! TYPE	BORTIES	A/C RE	K ON	DOP:	173	HESS-	_	170CDR			INTERCK.		HEBULTS Bomb Tonnage
li.					ARKA	ARRA	E.T.	OV'R	ING	Plate	PIGHTER	MISC. IN FLIGHT	CAUSIES	ATTACK-	MOA.	H.M. Inc
LI	ODWIGSH.VEN	8 .	Hal-La Lanc-III	17 66	13 61	2 2	1 -	1	ī	1	2	-	-	-	-	P. 303.1 -
1/0	IDVIDAGILVESI 701	rat.	The second second	83	74	4	1	3	1	5	-	-	-	-	-	M. 4-5 - Heavy Bonbs
-	-	8	Home-IV	-	4	-	-	-			-	-	-	-		P.5xA,7001b.
	ORT.	8	Mosq.IV	7	4	-	-	3		-		_	-	-		2. 3.6
1	-maia:	B	Mosq. IX	5	5	-	-	-	-	-	-	-	-	-		P. 7.1
-	Lenewit Mon 7	-	Mosq. IV	8	8	-	-			1	·-	÷		-		
-	ABORA MOLT	8	Monq.IX	2	, ,	1	-		-	-	· —		-	-		P. 0.9
	OCHRE (Stoad-TV			-	78.73			6			-			9.7
the same of	RAPLETS	_	-	104	91	5	1	6	1-	-			-	-		
N.	YILICE	92	Well-X	4	3	-	-	1			-	-	-	-		-
_	TOTAL			108	94	5	1	7	1	6	-	-	-	-	===	
2																
	BCB/JT. D. R. S. 3.		E.	100				100					15		90	
	= 55								1					\ <u>`</u>		20
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BOYERR CONTICO REPORT OF BROKEN CHARLES ON A

18/19th. NOTE 1/E, 19LT.

BERLIN: LUDICETANE: Essen: Prankfurt: ... chen: Linclaying: Leaflets:

SUPP ARY

- 1. Berlin The first of the four great Mevamber attacks on Perlin was delivered by a force of MAO Lancasters and A Mesquitoes. As on most subsequent occasions during this winter, the German capital was covered with a blanket of 10, 10ths. cloud, but the T.I. could be seen cascading to the ground, and much of the effort undoubtedly fell on the city. Fighters were not very active, and there is no evidence that they policyed any successes; only 9 Lancasters (2.0%) were lost.
- 2. Ludwigshaven: 395 heavies, mostly Halifaxes and Stirlings, dealt a simultaneous blow against Ludwigshaven; their bending was concentrated, but sentred 3 miles from the mining-point, so that men of it was wasted in open sountry. However, considerable industrial damage was caused, especially to Daigler-Benz engineering works. More fighters were encountered than on the Berlin route, and 23 circraft (5.8%) were lost. 3 Nighters were destroyed.
- 3. Essen: Frankfurt: Auchen: Mosquitees made hurassing attacks on Essen (where OBOE aircraft bombed Krupps'), Frankfurt and Amhen without loss. Those detailed for the last-named target also dropped route-markers for the two main bomber streams flying to Berlin and Luwigha ver.
- 4. Minelaying 16 Wellingtons Laid 5. sames off the Butch coast and the Prench Atlantic ports without loss.
- Leaflets 7 Wellingtons together with a small force of U.S. Fortresses, dispersed leaflets unwentrully over H. Fr. mot.

FEATHER POPHCAST

6. Midnight frontal positions: - (1) warm front 62 F. 07 E - Aberdeen - M.V. Iroland.

Fases: - Variable strate-cumulus inland. Convection cloud, tops below 15,000', near East Coast. Hederate visibility. I few stations in 3, 5, and 8 Groups may be affected by patches of low strains.

Germany: - Broken convection cloud, tops below 10,000', over E.North Sealuch strato-cumulus over North Sea coast, decreasing inland to variable amounts between 51 N. and 53 N., and small patches over limble Phine. Berlin and Ludwigahaven: both have a very good chance of small vacunts of strato-cumulus, but will have thick hase. Winds at 20,000' should hawhere en route exceed 70 m.p.h and will be less than 50 m.p.h. over Continent; strato-cumulus tops should not extend above 6,000', although isolated cumulo-nimbus tops will reach 15,000' over W. North Sea and Channel.

France:- Variable arounts of strate-cumulus.

..../BERLIN

PLAN OF ATTACK

7. Route: Haisborough - 53°10'; 04°00'; - 52°40'; 09°00'E - 52°25'; 12°55'E - BERLIN - 52°33'; 13°50'; - 52°12'; 13°50'; - 51°00'; 09°30'E - 50°30'N. 07°20'E - Coryeux.

- 8. Route Marking On the way cut, red most fine were to be dropped 52°39'N. 10°03'H (33 miles 32°° Enumerical) by being markers of 156 Square and backers-up of 97 and 136 Squarems. On the hyperic route, the came a were each to drop one yellow ". T. it 51°10'. 1. 10°17' (5 miles 146° Les on track and red T.T. at 50°35'. 36°01'; (14 miles 150° machen), 8 milestarboard of track.
- 9. Target marking Flind-mark to were to drop 1. red on the aimingusing M25., after a carefully timed run from English . Special blind-c
 were to mark the exact aiming-point with the special of a salve, by means
 their special equipment; but it this was amserviously, they were to retain
 their T.I. and book on the centre of reds. Paccers-up were to aim greens
 salvoes of reds and yellows early in the attack, and later at the centre of
 visible greens, with an everable of 3 seconds. If no salvoes of reds and
 yellows were visible at their appointed time, backers-up were to aim at the
 centre of reds with a 3 second overshoot. Support as were to bomb on H25.,
 or visually at the centre of reds. This Perce aircraft were to aim at the
 centre of greens on an exact heading of 079°T. Rach qualified Y-aircraft
 was to carry a Wangami flare.

```
10. Tining Zero h.ur: 2100 Dualtion of attack: 2056-211
```

```
Blind markers 27 Lancs. at 2010 - 4
Packers-up 13 Lancs. from zero - 2 to zero + 10 (1 per minute)
Supporters 22 Lancs. at zero - 4
Hain Force 122 Lancs. area zero to zero + 4
124 Lancs. from zero + 4 to zero + 5
117 Lancs. from zero + 8 to zero + 12
```

Illuminators 3 Hose, at zero - 2 (see para.12b) 5 Hose, at zero + 2.

Mirker Loads

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Blind-markers 15 a/c: 4 T.f. red (2 LB)
12 a/c: 4 T.f. red (2 LB) + 1 T.f. yellow (LB) + 1 red
```

Special " 2 c/c: 6 T.I. red (NLE) + 6 T.I. yellow (NLE)

Backers-up 4 m/c: 4 T.I. green (2LB)
9 1/c: 4 T.I. green (2LB) + 1 T.I. yellow (LB) + 1 m
spot

Illuminators 6 %: 4 x 3 flares white drift.

- 12. Thatics (a) WINDOW was to be dropped at the rate of one bundle every minutes on the way out to a point 20 miles from the target, one bundle every half-minute within 70 miles of the target in both directions, and one bundle every minute on the way home.
- (b) 6 Mesquitoes of 159 Squadren were to proceed to the centre of the target, turn on to . tarch of 3600T., fly for 3 minutes on this track, and to release speed white drip flores at 10-second intervals.
- (c) 6 Mesquitoes of 105 and 109 Squ Corner were to drop red 1.1. at 50035'N. 06000'E., 8 miles off track, and then to borb anchen.

...../30ETLES.

(2)	Nic.	. 0	f niror It Gesentched	444
16	. "	"	" reporting attack on primary wea	391(88.1,3)
10	"	110	" " clternetive . rec	18(4.05)
(a	"	23	f nirer if despatched " reporting attack on primary wen " " " alternative area nocrtive serties (tech.lefect or namigulative	
	8		err 123)	26(5.95)
•		=	(sickness of crys	
(e) 11	71	mirerant missing	9(2.01)

EATHER EXPERIENCES

Bases: - Mainly fit during operational period. Widespread fog and mist feeted the Midlands area and localities in East Inglia and Lines during the other. Showers over coastal districts of East Inglia, Lines and Yorkshire. Incl patches of thin stratus below 1,0X. ofter madnight in E.

. 3.

Route:- Little cloud over England, increasing rapidly to 9-10/10ths., ps 10-12,000' (locally 15,000') over North Sec. Over the Continent, mainly 10/10ths., tops 10-12,000', with local breaks to 4-6/10ths. Visibility dente above cloud, very poor below.

Berlin: - 10/10ths. cloud, topo 10-12,006', probably with another layer slow, tops 5,000'. Poor visibility. No users.

Wind at target:- 8,000': 0900/10 m.p.h. 18,000': 1300/10 m.p.'h. 28,000': 0300/15 m.p.h.

RE PHOTOGRAPHIC STATISTICS

No useful phategraphs of this tirget ment we instrumed on this night. I showed 10/10ths. cloud. One dispress thich obtained to have bombed a marchlight concentration S. of Stendel was plotted on the Hermann Goering works Hallendorf, 75 wiles S.W. of the forces town.

SPATIVE OF ATTLOK

No night photographs were it and and reconstructive attempts were successful, so that few cital can be given of the course of the attack. 18 the 26 blind-parkers found indictive should equipment unconviceable when they when the target, or were unable to the the third run, and dropped H.E. only. Sircraft released red T.I., 2 accompanying them with signarkers. 8 of the backers-up dropped greens, 5 chains at reds, 1 on greens and 2 on clusters of the red and greens. One condentably released a yellow reutemarker with his abs at zero + 6. Roughly two-thirds of the unin force aimed at greens and one-order at reds. 10 aircraft beabed separaters. The attack appears to have an scattered, because of the difficulty of estimating the centre of T.I. Exentrations obscured by the claud.

PECCULATES, NO.

Various attempts were much to photograph the image caused in Berlin in intervals between the 4 ct ac's delivered in the last fortnight of November, for a long period the capital was covered with a blanket of cloud. Ressful photographs were not obtained until after the attack of 16/17th. December, in extremely serious and wide pread deventation was revealed, resulting from 4 for raids in November and 2 in the first half of December, as well as various rassing attacks by Mesquitees. It is impossible to specify how much damage caused by any particular operation during this period; full details will be expected in Might Raid Reject Mc. 439.

CLJ. EQUIPMENT

H2S The serviceability of H2S was very low and of the 26 blind-markers - patched, only 5 reached the season with their sets in order. One of these

was unable to check its position on 1.11. from Brewlenburg, and held its T.I., so that only 4 salvoes of rede were released. One special blind-marker equipped with H2S Mk.III set out to mark the exact siming-point with yellows and reds in salvo, but found its device unsurviceable over Holland and attacks Texel. 98 main force aircraft carried H2S for navigational purposes; 45 found their equipment working over the target. 3 H-direct were lost.

ALTERNATIVE TARGETS

19. 18 mircraft attacked alternative targets, in the areas of: Texel (7), Groningen (2), Nienburg, Colle, Hannover, Dessay, Proinwalde, Vlieland, Kassel Stendal, and Solingen.

MURRY DEPRICES

- 20. Flak and Searchlights : Aircraft encountered predictor-control "unsee heavy flak on the run in from Brandenburg to the target, very accurate for hei but poor for line. The heavy guns of Berlin fired a moderate barrage over the city itself, bursting at 15-23,000'; light flak was apparendic, self-destroyin 18,000'. Numerous searchlights illuminated the cloud-base, without penetrate it. The most notable opposition on route came from Eremen, Dessau and Hannov as many as 90 returning aircraft were damaged by flak, although no serious instances were reported.
- 21. Fighters The enemy righter reaction was surprisingly small; only 2 attacks and 14 approaches and followings were reported. All but 2 of the interceptions occurred over the target, or immediately after our bombers had be it. Many fighters were ordered to limit before the attack began, because of formations are twin-engined units had been moved from these area to Norway during the day in connection with the inerie in attack on Oslo. The simultaneous raid on Ludwigshaven certainly helped to pushe the center liber, who may have reacted cautiously after their violent efforts during the previous night to break up atturned out to be a minor attack on Ludwigshaven. The running commentators identified both main targets well before the attack a commenced, and split their fighters into two forces. For lines a need at new 50 minutes, after Leipzi Hannover had been mentioned to possibles. No tipher damage was reported.
- 22. Rocket projectiles Rocket projectiles were observed at heights betwee 12,000' and 30,000' over Bellin, an over Tenel and Zoulogne en route.

CASUALTIES

Only 3 losses were observed by our crews, all to flak over Berlin. This no evidence that fighters achieved any success. The loss rate of 2.0% is exceptionally low for Berlin. The rate of flak drage, however (20.3% of sort despatched) is extraordinarily high, especially since no great intensity was reported by our crews over the target; but consistent opposition was experienced the whole of the run in row Branderburg.

One Lancaster was abandened by its crew over the bouth Coast because of fuel shortage, and crashed near Harsham. None of the crew was killed.

LULWIGS LVIII

PLUI OF ATTACK

- 24. Route Beachy Head G year: 49048'N. 08025'E LUDVIGSH.VEN 49012 08008'E 48050'N. 05000'E 50000'E. 01015'E Beachy Head.
- 25. Route-marking Blind-rarkers of 7 Squadren and backers-up of 7 and 4. Squadrons were to drop yellow T.T. at 490.8'n. 00025'E (22 miles/3530/Mannheim

..../on the way out, and

...

137

n the way cut, and red spot fires at 19005'. 07000'. (10 miles/1750/Sa_rbrucken) in the return route.

Timing Zero hour: 2030 Duration of att o'c 2024-2042

```
Blind-markers. 8 Hal. and 10 Lanc. at zero -5
Visual markers. 4 Hal. and 2 Lanc. at zero -1
Backers-up. 4 Hal. and 11 Lanc. from zero - 1 to zero + 10
(4 at zero - 1, zero. (2 per min.)
(4 at zero + 1, +2, +3, +4, (1 per min.)
(2 at zero + 5
(5 at zero +6, +7, +8, +9, +10 (1 per min.)
```

Supporters. 5 Hal. at zero - 6 (+ 20 Hal. of ! Group)

Main Force 126 Stir. From zero to zero + 1.

105 Hal.) from zero + 1, to sero + 8

7 Line)

105 Hal.) from zero + 8 to zero + 16

105 Hul.) free sere + 6 to sur > 12 6 Line)

28. Marker Loads

'Blind markers. 6nd white flares + 2 yellow T.I. (1LB)
Visual markers.1xd, white flares + 10 red T.I. (5LB) + 1 green T.I.
Packers-up. 4 green T.I. (2LB)

- 27. Tactics (a) WINDOW was to be dropped at the rate of one bundle every 2 cinutes to a point 20 miles from the target; one bundle every half-minute.

 within 20 miles of the target in both directions; and one bundle every minute for the rest of the homeward route.
- (b) 6 Mosquitoes of 139 Squidron were to carry out a diversionary raid on Frankfurt, dropping red T.I. and F.E. On directaft was to attack every minute from zero 10 to zero 5. Window was to be dropped at the rate of 4 bundles per minute from 49°48'N. 08°25'E (22 miles/353°/kannheim) until the supply was exhausted.

STREET

(a)	No.	cf.	mireraft despetched
(3)	**	**	" " alternative area
(a)	"	.11	abortive serties (tech.defect of agriculative error. 32)
			(crew failure 5)39(9.9)
			(late
(e)	п	n	giroraft missing

32.

31. Route:- 8-10/10ths. cerulus over Churnel, average tops 6-10,000', locally 15,000'. Over Continent, tops inverse to L-5,000', and cloud broke 4-6/10ths. At 04°E. Hoderate visibility above cleus; poor vertical visibility

Ludwigshaven: - Little or no cloud. Poor visibility. No meen.

We of aircraft plotted within 3 miles (group, detail.......19)....

Winds on route: 0400/50-0 mag.: over Channel and Continent, backing 360-0200/15-20 mag.h. the ards and at the target.

MIGHT PHOTOGRAPHIC STATESTICS

						(fire-tracks58)
		4 4		outside 5	30	(grain! detail
	n	" unplott	:1 j.hotog	raphs	•••	
1200.00	19	" aircr.if				or within 3 miles of

reporting attack

MURRATIVE OF STRUCK

- 33. The attack opened on time with 5 serveds of yellows dropped by the bli markers; those fell 7-4 miles N-ME of the aveing-weint, apart from one 32 miles N-M. They were blocked-up by a solitary grach serve, dropped approximately 22 miles N.E., which was beebed by some 50 of the 51 min force aircraft attacked only the first 10 minutes. . correct tree of fires resulted, measuring 2 x 25 square miles and control 3 miles N.E. of the airing-point; this was nestly wasted in open country, but covered the 1.M. commer of the built-up are after zero + 5, 8 further salvoes of great were (ropped, 6 of which seen to be fallen in the main fire are . The other 2 i need in woods 4 miles N. of this concentration, but attracted very little beging. The attack remained fairly well concentrated, although tending to rift away to the E.P.E., where decays N. of the shillstadt fire rite deceived a number of prews who claimed to have boosted on reds.
- The comparative failure of this operation resulted from several causes viz: (1) Many Y-sets were unconviscable, so that the placed limited number of Pathfinders cropped insufficient il resume yellow W.I., and sadly handicapped the visual markers.(2) The unempedded which twind at reute delayed the backs up, so that for the first 5 or 6 minutes only one green T.I. was burning. (I The stacks screen seriously hampened visibility in the target area. (4) Deep 42% of the main force reported seeing red T.I., although none were dropped by Fritish aircraft.

DAY RECONMISSINGE

Photographs taken on 29th. November revealed swittered damage throughthe twin towns of Mannheim and Indwigshaven, as a result of this attack and the previous night. New incidents occurred in I.S. Farbenindustrie, involving a boiler house, a gasmashing house, 5 gashelders and several workshops and surblings. Dainlor-Benz engineering works was nore severely hit, several new sized buildings being gutted; on F. Neidig Schne, Industrie Hafen (priority sustained further useful damage. Heinrich Lanz a.G. (...F.V's and tank comparing ty?) Beckninger G.m.I.W. (quinine refineries), and 8 other industrial as 5 comercial premises were also affected. Comparatively slight damage was caused to business and residential property; the studern and eastern district of Mannheim were, however, a veril with close when the impropershs were taken. No attempt seemed to have been bulk at large-ndale reconstruction since the destructive September raids.

37

8

ALTERNATIVE TARGETS

36. 30 aircraft attacked alternative targets, in the areas of: Frankfurt (6), Darostadt (5), Mainz (4), Furth (5), Wiesbaden, morbach, aschaffenburg, Sanrbrucken, Bad Kreuznach, Obernburg, Lunden, abbeville, amiens, Etaples, Chimay, and one unidentified town.

SPECIAL EQUIPMENT

57. H2S 18 blind-markers were despatched; 9 reached the target with their sets in order, 6 releasing flares and f.I., 2 flares only and one T.I. only. 5 aircraft reported their sets to be wholly unserviscable, and 2 that their's were partly so; 14 Y-aircraft were included in the 4 Group wave of supporters; 8 reached Mannheim with their sets working, but only one used it for bombing. 46 main force aircraft carried H2S for manifational purposes, but only 16 were able to use it throughout the trip. 4 Y-aircraft were lost.

ETETY DEFENCES

- 38. Plak and Searchlights in usual, a continuous belt of searchlights was in action from Frankfurt to Humbein. Heavy flak was fired in barrage form, with a ceiling of 17,000', decreasing as the attack progressed. 32 aircraft were hit.
- 39. Fighters Fighters reacted more vigorously to this attack than to the min effort. 36 interceptions were reported, compared with 16 on the Berlin operation. A number of combits occurred between Cabrai and Trier on the way out, as well as over the target and the early part of the return route. All types of fighters were observed. 6 aircraft reported Fighter damage. 3 enemy siroraft were destroyed; a Stirling claimed a FW-190 over Mainz, and 2 Halifaxes each shot down a Ju-88, near furthern and Fingen respectively.

C.SULTIES

LC.	No. of aircraf	t missing		23 (5.83)
	" " " d	anaged (fl	32)	
		(Cighter	6)	45
90		(Tritish ince	nči ries 5)	17-0010 (2010) N. 18-18-18-18-18-18-18-18-18-18-18-18-18-1
	7.5	(other clunes		40

Fighters were responsible for most of the losses; 3 bombers were seen to go down in combat over the target, 6 on the way out and one on the way home. 3 were destroyed by the target guns, and 2 mere at Chalens-sur-Marne and N.W. of Trier. Reports suggest that 2 bombers may have collided over Mannheim. The other 6 losses cannot be identified. One Stirling swung while taking-off, crashed and was burnt out.

ESSEN

10 Mr. I CHOE Mosquites were detailed on a precision attack against Krupps' at Essen. 2 aircraft bombed according to plan, and a third attacked on CHOE but was 1 mile off track at the time of release. 5 experienced OHOE failure, and attacked the primary on D.R., as lid one more which arrived 17 minutes early and found itself short of fuel. The tenth aircraft abandoned its bombing run because its bomb doors were frozer. All returned safely; one received minor flak danage.

PLUMBIN.

42. 6 Mosquitoes, not equipped with precision devices, were despatched on a harassing raid against Frankfurt. A bombed the privry and 2 returned early. No casualties were rustained.

...../....CHEV.

...THE

43. 6 Mk.I CBCE Mosquitces set out to attack machen and then each to dr. 2 red T.I. at 50035'... 06001'E (14 miles S. of machen) as routemarkers for forces flying to Berlin and Manuheim. 4 Mosquitoes completed both tasks; other 2 had OBCE failures and retained their T.I., after dropping their task on D.R. in the machen area. No mircraft was lost, but one overshot while landing and was badly disaged.

HIGHLYDG

44. ... 16 Wellingtons laid 16 mines uneventfully off the Dutch coast and the French Atlantic ports.

LE 27 Mrs

45. 7 Wellingtons dispersed leaflets without incident over N.France. 6 U.S. Fortresses accompanied them, 5 completed their task, and the sixth returned early. No losses were sustained.

MLM/JT. BC/S. 263L2/5/OFS4, 17th. January, 1944.

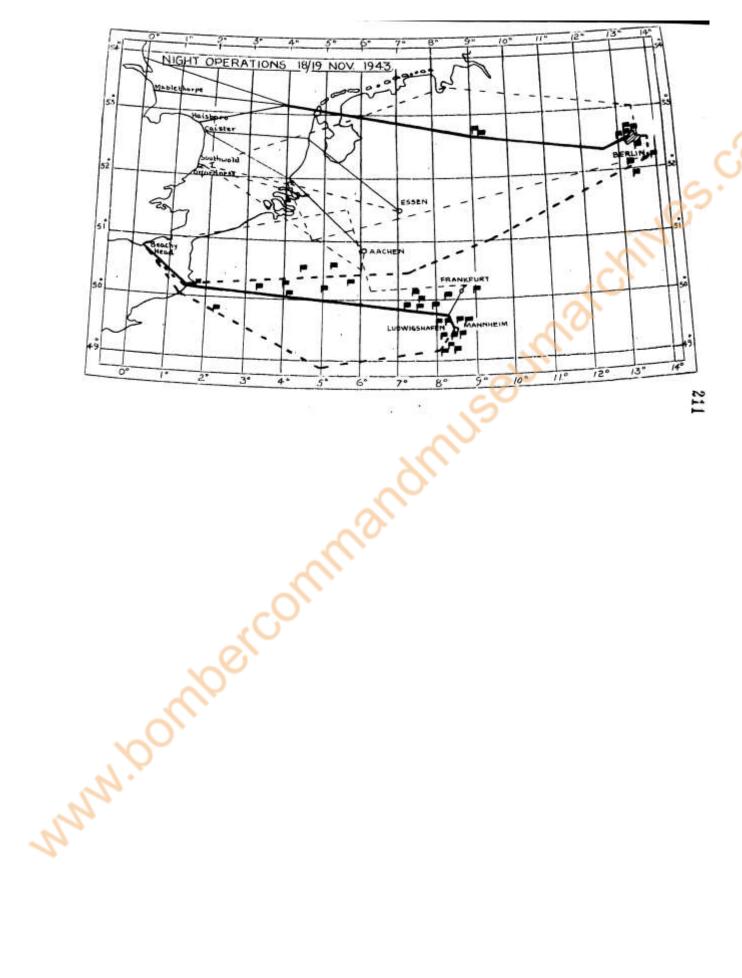
Chequa.	GROUP	TYPE	som res	/C RE		BOR	rivi:	1553-		anis'	* ** * * * * **.		DITURCE	P.:2045	Fons of Forbs
L. TIMI	GRUUE	1.62		PRD:	.in.	OVRIL E. T.	CVIDE E. T.	D.I.	A.Ff	Tunk	MISC. IN: PLIGHT	CAUSES	ED ED	NOV.	H. E. Inc
TRUE:	-B	1300 q - TV	4		18	7 -	-	-		1	7	-	-	3.0°	P.732.8 774.7
	PFP	Lanc.III	21	32	1	-	2	2	1,0410	-	2.0	-	-		26.7 19.4 17. 18.9 17.2
	8.17.5	Large-III	27	25	- 24	-	-	-44	3,0+5		2.0	-	-		10 10154 1746
A CONTRACTOR OF THE PARTY OF TH	1	Luxu-I	122	29	7	1	54	40	5 C+17	- 2	2.0+1	18	2	1	Hunry Beatla
101 04	-,-	Lung. III	12	10		-			3 3417		2 041	1 -			8000 4000 +
	-3	Lanc.I	53	1,45	1	1	- 1		1,0+7		1,73	18	-	1 2	2.376 -
	2	Leng-III		119	11		5	4	1,7,29	1	1 /1+1	1B	-	1 4	14 -
	6	Den. I	29	-23	2		+	-	6	-	1,21	-	-	1	11 9 -
BOOLE: TOTAL			444	391	15	5	23	9	*377		73+2	1E+23	2	11/4	
IAENTLISH.VEN	0	[3:1:II	1	1	-	-	-		-	-	-	-	-	**	Tons of Boebs
27,2011,2011,011	PFT	Bd.L.	15	12	3	-	-	+	8 3	- 140	31	-	-	2	it E. Inc.
		Lexe. MI	23 -	19	3		+	- 1	1	-	- 14	-	-	14.7	P. 375.8 476.6
She made 7	0	mal-II	1	-		-	-	1	-	+		*	7	7	a. A1.5 35.1
(t- 100 to 2	1. F.	9.1.1.	4	4	-	-	- 4	-	-			-	-		M. 26.6 -
	3	3 ir.III	114	88	1 3	Ai.		5	1+W+A	444	2.0	18	4		3,000 4,00
200		Lanc-II	10	-22	-							1.0		-2	1, 27
	4	Hal. LLAV	100	91		1.50	6	2	10	2	1		5	ш.	4 -
×	6	Hal-ILSV	37	- 22	10	11	5	1	1	15	-	-	2	6	M. 1 -
		Hul. La	57	37	5	3	- 5	7	1.,0+6	1,73	-	-	2	1	
LUD/IGEHLVEN	TOTAL		395	303	30	8	31	23	2,0+30	15+3.0 +2	2.0+3	18+1,43	13	23	
DESCRIPTION & LUDWI	CCS-LLVEO	TOTAL	839	694	48	11	54	32	15,0+10	15+3.G +2	9,0+5	2E+2B +1a0	15	37	

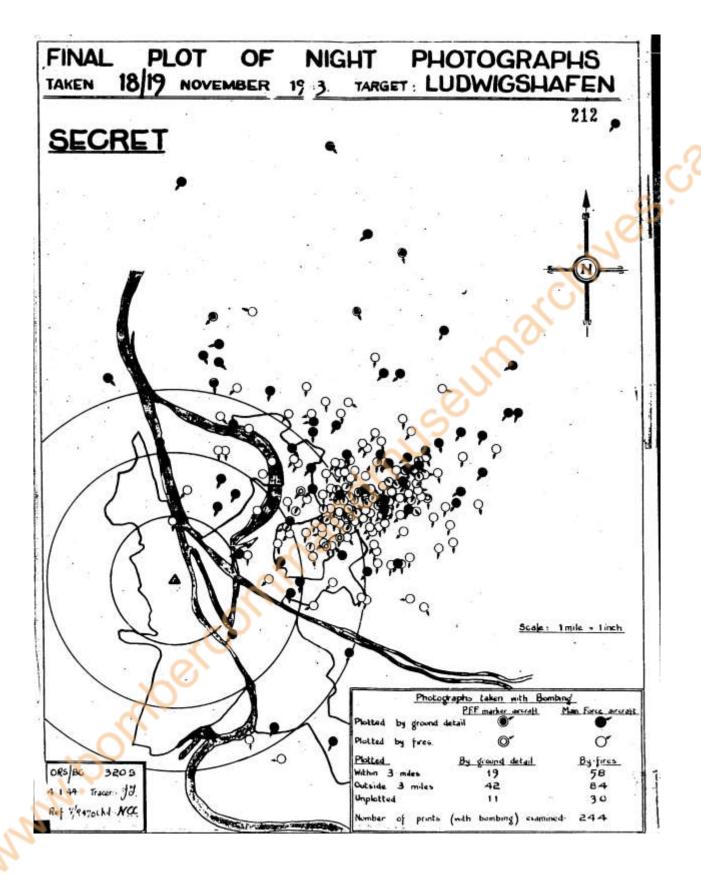
HERLIN: LUDVICSH.VEN: SEERS: PRINCIPER: A. CHES: Minelaying: Leaflath: 18/19th. NOVSEER, 1913. (CONTD:)

TARGET	GROUP	TIPE	SORTIES		SKOTTES SKOT	SOR	THE	1533		DITTE			TYTERC!	eriois.	Tons of Bon
32				PRINT LEEL	JELL JELL	E-T.	OVER:	160	PLX	FIGHTER	HISC. - Dr. PLIGHT	C.USES	.77.CK-	MOT ATELOK- AD	H.E. In
BERLIN & LUDWIC	SHLANN SY	Mr.L	8,19	691.	4B	11	- 54	32	15.,0+107	10+3.0 +2	9C+5	2E+2B+ 1,4C	15	37	
M(ROUTE- M(M.RECTA)	8	Pesq. IV		4		ż	9	-	These be	arv U. s	are not i	s those to neluded i	hut went n total.	toCin	
L.CIDN	Span	Hoay J7	€	5	-	-/	4		1	-	-	116	-0	-	P. 2.7
MIZ!	Pyp	Penc. I	1	6	1		-		1		-			-	
ESEN TOTAL			10	9	7	-	- 1		- 1			-	-		P. 7.1
FRUNKFURT	SPFF	Hosq.TV	- 6	4	1		2 :	-	- 1-	-	-	-		-	P. 5.4 8.2
BOOMER TOTAL			861	713	49	-11	56	3-	150+109	10+3.0° ->2	9.6+5	28+35+	15	37	
MDCAL (FEY) HIGET	1	Well.Z	5	5		_		-			-	-		-	10 mines
LOKIDET	1	1011.1	4	- 4-	-	-				-		-	-	-	8 mines
ST.H.S.T. S. of TEGE	1	Well-X	3	3			==1		-		-	-:		-=-	6 mines
MENELTYEN TOT.	Į.		16	16	-30	-	-	-	-	12	4.	-	_		52 mines
LEAPLETS N. PR., TOE	91	Well. III	7	7	-	-	-	-	-	-				74 T	
(LEAPLETS	US.JEC	Fortress	6	5	-	-	1	-	-			-	-	-) u	***
TOTLL		MIN AUT	884	736	49	11	56	32	1520+09	18+340 +2	9.40+5	2E+3B +1.40	15	.37	

* NOT DELIMINED IN TOTAL:
91 Group to:- LEGISS: PLRIES: SOURCES: RESERVE: LEGISS: LEGISS: CHECKESTORMS







BOIDER COMMIND REPORT OF HIGHT OFFICIES

19/20th. HOVEMBER, 1953.

LEVERKUSEN: Duisburg: Eheinbausen:)inelaying: Leaflets:

SUPPL RY

- Leverkusen 256 Stirlings and Halifixes left on a blind-marking attack spainst the chemical works at Leverkusen; but all the 10 Mosquitoes detailed as markers experienced CBCE failure, and the target was obscured by 10/10ths. cloud, so that the bombing was scattered widely over the Ruhr. 11 buildings of the 1.3. Farbenindustrie were dimaged. Spainer int (1.95) were lost.
- 7. <u>Duisburg: Rheinhausen:</u> 6 hesquitous corried out a diversionary raid on Duisburg, dropping red and green for shortly before and after zero hour at Leverkusen; and 2 others made a harassing raid on Pheinhausen. All returned undamaged.
- Minelaying 25 aircraft laid 92 mines uneventfully off the Frisians, the Dutch coast and the French Atlantic ports.
- Leaflets '11 direct't, necessaried by 6 J.3. Cortrenses, dispersed teaflets over N. France without incident.

EATHER FORECAT

Midnight frontal positions - (1) warm from 60 % 11 E. - N. Yorkshire - 10 P. 11 W. (2) Warm from 55 N. 20 E - Primer.

Bases: - Fit for early take-off, with visibility 1-4, miles, falling to 1 mile in snoky localities. For return from 12th, 3, 5, and 7 Groups will have visibility troubles, but had their mirfields should hold 1,500-2,000 yards until 2200, when conditions will repidly deteriorate. 4 and 6 Groups will hold 2,000 yards until 2300, and high level stations in 1 Group until midnight. Diversion areas: narrow strip on east coast N. of 52 N. and S. coast until 2300-2400; S.W. until later.

Germany:- Much struto-cumulus with medium cloud E. of 11°E.
Leverkusen: 10/10ths. strute-cumulus to 4-6,000', with perhaps a second thin layer at 10,000'; poor visibility beneath cloud. Cumulus tops below 12,000' over North Sec.

France:- Variable strate-simulus. Moderate visibility.

.verage winds to Leverkusen:- ...t 750 mbs. 060-050°/25-30 m.p.h. ...t 500 mbs. 060-060°/35-55 m.p.h. ...t 300 mbs. 030-040°/110 m.p.h.

LW REUSE

FLC: OF ATT.CK

- E. Route 52010'E. 03000'E 51050'E. 0400'E 51000'E. 0600'E LENTER NET 51000'E. 07025'I. 50030'E. 07020'E 50010'E. 01030'E Beachy Head.
- 7. Method of attack: OBON Mosquitoes were to make the exact aiming-point with red T.I. Packers-up were to aim greens at rade if visible, otherwise at the estimated centre of earlier greens, overshooting in cities came by 3 seconds.

 Main force aircraft were to sim their books on the same principle.

...../c. Timing

2. - 8. Period of Attack: Timing Zero hou: : 1515 7 Mosquitoes:- zero - 4, -2, zero, +3, +6, +8, and +10. (with 3 reserves) 7 backers-up:sero, +1, +2, +4, +5, +7 and +3. Main force 120 a/c: zero to zero, : 4 83 c/c: z_ro + 4 to zero ÷ 7

9. forquitour: 4 100 1.1. (2_1) Marker lo de 3 exers-up:- 4 prem T.I. (21)

sero + 7 to sero - 10

(a) William was to be dropped if the late of one bundle of Tactics 2 minutes to within 20 miles of the Milet; thence it one bundle every half to the target and for the first 20 miles of the hogen we route; and at one bundle every minute for the remainder of the way home, whill the supply was exhausted.

ere

(b) 6 Mosquitoes of 159 Squadron war, to deliver a diversionary attack against Duisburg from zero - 2 to zero + 1, (ropping green T.I. and H.E. The were to make a GEE/DR run to 19 miles/280 /Coleyne, on thence a DR run to the target, aropping WDEXCW from the above-ment on a position at the rate of 4 but every minute until their supply was exhausted.

· SORTIES

" alternative area..... 9(" abortive sorties (took.defeet or manipulative error....... " aircraft missing.....

WEATHER EXPERIENCES

82 c/c:

Bases:- Widesprond pint and fog in Lidland: by 1900, affecting Operational Croups by 2100, although icol acc cirficlus held until 2300. Norfolk, coastal stations in H Bross, are the action and fit until after midnight. C_oud base remained above 1,500 in h and 5 Troups, despite light: Purther S.E., there was little cload.

Route: - Cloud increased to 10/10 ths. few ards oncer coast, tops 5-8,0

Leverkusen: - 10/10ths. strate-camplus, tops 5-1,000'. No moon. visibility above cloud. Wing at 28-30,000': 020-040 /80 m.p.h.

MIGHT PHOTOGRAPHIC STAITSTICE

all photographs showed 10/10ths. oloue.

MARPATIVE OF ATTACK

None of the OBOE aircraft was natisal country controlled, and no T.I. Fi dropped except one accidental salve of group. Fost a repet therefore had to book on E.T. .. and D.R. positions and, as the tract was completely obscured by cloud, no indication can be liven of where the bulk of the attack fell. Energ reports suggest that it was scattered widely over the lahr.

DAY RECORD ISSUNCE

Damage to the I.W. Parberindustrie chemical works was confined to the N.W. corner where I large, I could and A addien buildings were severely hit, 5 ····/3 large, 1 medium and 1 harge, I medium and I small building received uinor diange.

THE TARGETS

 9 mireraft attacked alternative tarjets, in the creas of Cologne (3), misturg, Dusseldorf, Solingen, Thankerheir, bittard and Foord Beveland.

PROLL EQUIPMENT

- 7. CBON 5 M. 1 and 2 M. II (1 PINTPER and 1 PCH "AD PRI) Mosquitoes are despatched as primary managed, with 5 M. I arrown? in reserve. All sectived intermittent or otherwise unsatisfactory and it, and none succeeded in making controlled runs. 3 channels were verting, and matual interference exact these probably causes the failures.
- 3. HIS 33 directaft carried H2S for n vigation in purposes. 15 reported hat their sets were working over the target, and 9 u.c. then to bomb blindly.

CKOKPES PER

- Flak and Scarchlights Heavy guns fired an intense and accurate arrage in a circle around the target, to heights between 16,000' and 21,000'. one crews also reported predicted "unseen" fire. Scarchlights could not energe the cloud. Elloons were seen at 12-14,000'.
- f. Fighters No running commentary was heard, and fighters were not active a strength. 12 interceptions were reported, including 5 attacks.

AS" LETES

No.	cf'	aircraf	ft missing		(1.90)
"	"	n	dam.iged	(r'lak(0)	
		55		(righter	
				(other c.uses 3)	

2 bombers were lost over the target, and to flam and one in combat with fighter. One fell to a controller fighter near Liege, and one to the guns of Clais, both on the war home. The fifth missing bomber was seen to explode and live into the sea on the outward journey, but the cause is unknown. 6 other directly were wrecked beyond repair, 1, as the result of flak damage and 2 because of landing accidents. Hearly one-quarter of the already reporting attack were not by flak.

DISEUE

22. 6 Mosquitoes successfully completed a diversionary attack against Duisburg, iropping red and green T.I. shortly before and after zero hour. All returned managed.

RETULTST

2 lk. II CBCE Mosquitoes (PMMILER) were detailed on a precision attack against Krupps' works at Rheinhausen; but neither received clear signals, and both booked the primary area on D.E. from GEM fixes. Both returned undamaged.

HITTELYLIG

21. 25 aircraft laid 92 mines off the Frisians, the Dutch coast and the French atlantic ports without incident. 2 used H2S to determine their position at the boosent of release.

TURE MIS

25. 11 Wellingtons and Maitlers, accompanied by 6 U.S. Fortresses, dispersed leaflets uneventfully over allotted areas in F. France.

EX/JT. EX.S. 26342/5/ORS4. 20th. January, 1944.

19/20th, 100(19)73, 1943.

E-SGST	GROUP	LINCE ST	SOUTHER	ATE-C		. 30	TIN	1333-		Milde			DAMESCE	Prin.s	RESULT:	
*				PRIM.	ALM.	OVER X. T.	DOY OWER SLTS	I.C	12t	PARTER	PISC. D: P.IGHT	C'NEEN OLIDER	ATTLICK-	33 -37 -37	H. E.	
LEVERGISET	8 P99	Mosq.IX Mosq.IV Mal.II Hal.I.	9		1	9	-	-		1		:			н. 4.9	9.5
	1	35-4+.111 35 +1.29 35-1-1.	86 2) 75	75 23 66	ī.		7		242617 1240 8-169	1,0+1	:	13+18	3	2	No bomb ower 2,0 were dro	001ь.
	6	Hal-L.	32	27 26	1	1	3	2-	1145	1-2	1		1	1		C
LEVERCUSES	POPAL		266	222	9	15	15	5	48+28+ 6,40+46	2.0+1	5-	28+1B	5	7	0	
DUISHURG	8 PFF	Mong. IV	6	6	-	.:				_		-			P. J.G	3.2
PHZIM (LUSIN)	8 PFY	Mosq.IX	2	2			-	-	2		14	-	-	-	P+ 1+8	-
BOURDING TO	Tral.		274	230	9	15	15	-2	dallar elser tendiodalla	e de la comunicación de la comun		251412	5	7		
e(leaples	USABC	Portreas	6	6	-			STIRES	lowers		-	-		-)-		

MOT INCLUDED IN 702.L.

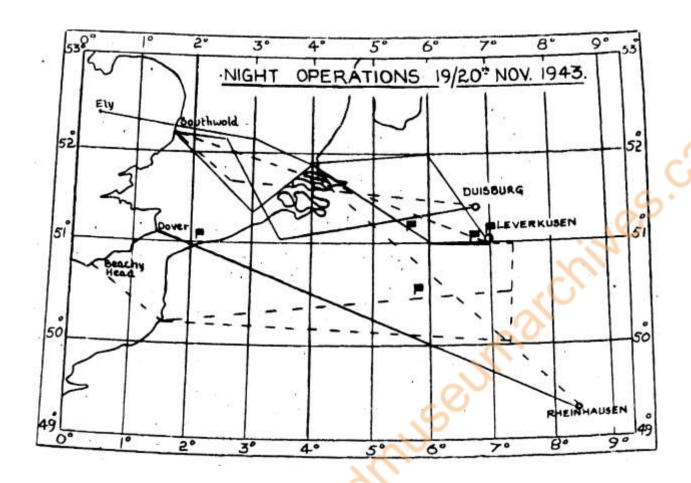
....../over.

19/20th WWStree, 196). (JAPA)

TARGET	CHROSE	LINGBOOT SYPE	BORTIES		CK OF		MTTV2 MTT43	1088-	-	D.LE		J.	DATERCH	CTTO	RESULTS
,				PRINT	AREA	E.T.	OVER E.T.	7775		Picenth	I.ISC. II: III.IGHT	OTHUR C.IMIN	.TLSi- Ed	MOT LETT.C.:- NO	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
BOURING TOD	L.		274	230	9	15	15	5	46+2b-	24.1		2E+1B	5	7	
MDELLYDIC LOREZVE	1	Well.X	3	3		32		2		V.	-				6 mirws
ST. H. ZLIFE	1	iell.	14.	4	-	-	-	-	11.	11	-	-	-		6 manus
BREST	13	Fell.	. 2	2		-			-		-	-		-	4 mines
S. of LEJ.	1 1	Well.Y	4	4	- 4	-	-	100	-	- 14	-	- 1	-	-	8 mines
PRISLIS II	. 2	Stir. III		3	-	-	-	-	-		-	-		-	16 minus
PRISELIS I	3	Stir.III	3	1	-	1	- 1	1	1			-	12	1	16 mines 6 mines
LZ IL.VI E	1 3	Star.III	. 2	2	-	-	- 1				-	-		-	12 mines
LA PRINCE	1	Stir.III	- 3	3	-	-		+	H-	-) (#i)	-	100	-	12 minus
MEGRAYING TO	1	1000000	25	25	-	-	V.A.	-	-	-1000		-			92 minen
KYR., III	91	well.III	. 3 2 6	250		9	-	-	-	-	-	-	-	-	
LEAFLET TOTAL		y 111==113	11	11	-	-	-	-	- 102	-	-	-			NI L
TOTAL			310	266	9	15	15	5	4D+2D+ 6_C+48	2_0+1		2E+1B	5	7	

94 Group to:- PARIS: BOURGES: DELLA: __FEPT: LDLG: DREX: VINS..BLDS:

BOB/JT.



BOMB PLOT NOT AVAILABLE

BOUBER CONFLIG FIFORT ON NIGHT OPERATIONS

22/23rd. NOVE BIR, 1943.

BERLIM: Loverkusen: Minclaying: leaflets:

T'LRY

Berlin The largest force of bombers jet despatched to Berlin, comprising the aircraft, all heavies except 11 lesquitoes, delivered a concentrated attack trough 10/10ths, cloud. The time; of the blind makers was excellent, and my are believed to have been assurate, although no photographic evidence could a obtained to confirm this. The German wireless complained of a "heavy terror id". German fighters were grounted by bud weather, and only 25 aircraft [13] were lost.

- t. Leverkusen 12 CLON Mosquitoes carried out a precision attack on the tenical works of I.G. Farbenindustrie at Leverkusen. . . 1 returned safely.
- . Minclaying 14 Wellingtons 1 id 27 ints off the Frisians and the utch coast without incident.
- Leaflets 11 Whitleys and Wellingtons dispersed leaflets over N. France; twelfth returned early. No casualties were sustained.

ALTHER POLICEST

:. Hidnight frontal positions: (1) cold from 55°N. 15'E - 50°N. 02'E -

Bases: All fit for early take-off, with well broken cloud, base above 2,000', and moderate visibility. For return until midnight, 6 and 4 Groups and the E. of 5 Group will be fit, with well broken cumulus or strate-cumulus and moderate to good visibility. 3 and 8 Groups should also be available. 1 From and W. of 5 Group may have smoke troubles. Diversions to Training Groups.

Germany:- S. of the cold front, there will be much very low cloud, with local fog; tops of cloud should not rise above 5,000'. Berlin: well broken medium cloud. Route: 'cold front will be crossed near the continental coust, with 10/10ths. from surface to 8,000' and well broken layer cloud extending to 12-15,000'. Light winds.

France:- Much layer cloud.

HRLDI

PLUI OF .TLOK

- E. Route Croner 53°10'1. 04° 0'2 52°10'F. 0300'E 52°36'E. 12°21'E BIRLIN 52°25'H. 13°50'E 52°23'J. 12°00'E 52°43'J. 09°00'E 53°10'N.04°00'E. Croner.
- Route-marking 111 opening blimi-arkers and backers-up were to drop green T.I. (LB) at 52°40°4. 10°5'3 (35 miles/325'/Brunswick) on the way out; and at 52°48'4. 12°26'E (5 mil./211'/Fr mierbu 3) and 52°35'. 10°05'E (30 miles/320°/Brunswick) on the way home.

.... Yethod of attack.

Opening bline - . where were to mark the mining. Muthra of attack with red T.I., releasing also a burdle of release-wint flores (red with a stars) blindly on H2S. Special blind-markers tere to tark the exact and point on H2S with reds and yellars in salve, fellowing them with 4 bundler release-point flores. Later blind-or more to nor; the aiming-point greens on H2S, and drop one bundle of release-wint flares; these aircrit to attack at regul r intervals throughout the raid. Orly backers-up wer ain greens at salvees of reas and yellows, if visible, otherwise at the estimated centre of all visible reds, with a 3-second oversheat. u) were to aim greens at the centre of carlier greens with a 3-second even If cloud obscured the f.I., backers-up were to join the Alm force, retain their greens and bombing on release-point flores with the supporters. latter were to bomb on these flores only if their M2; was unserviceable, exact heading of 1047% at a speed of 150 knots I...... with bombsight set true height and air speed and zero wind. Hain force aircraft were to be centre of all visible greans, with a 2 second evershoot; or, if cloud observe the T.I., to aim at the release-point fluxes.

```
I meeting of attack: 1958-201
              Ziro hrun: 2000
Opening blind- : rkers.
                          . 19 Lines. at sure - 2
Special blind-urkers.
                            1 Line. at zero - 2
                            3 Lance. fran zers + 1 to zero + 3 (1 p
                           18 Lengs, and H.la. at: sero +1, +2, +3,
Later blind-markers.
                            +5, +6(2), +7, +8(2), +9, +10(2), +11,
                            +13, +14(2), +15, +16(2), +17,+18(2) :nd
                            4 Lines. at zero
Backers-up.
                           13 Linea. From sero + 1 to zero + 19 (ens
 Jupper ters.
                            52 L des. at sera - 2
                             6 Hals. at sero + 2
                           121 a/c: from sore to zero + 4
 Main force.
                           120
                               ** :
                                     1 zer; + 4 to zere + 8
                               1 :
                           120
                                     " zer + 3 to zere + 12
                               " :
                                     " zero + 12 to zero + 16
                           127
                                     " sero + 16 to zero + 20
 Marker loads
Opening blind markers: 4 r.d T.I.(ZLN) - 3 green T.I.(LB) + 1x4 fla
                                          (red + green stars)
Special blind-markers. 4 reds (217) + b ; c laws (217) + 4x4 flares
                                               + 3recn stars)
                         4 greens (203) : 124 flures (red + green stu
 Later blind-markers.
 Backers-up.
                     . 11 n/c: 4 greens (2.B)
                         12 c/c: 7 greens (5LB)
```

- 11. Thatics (a) WHEON was to be dropped at the rate of 1 bundle per minute to a point 30 miles from the target; 2 bundles per minute within 30 miles of the target in both directions; and one bundle per minute for the rate route home.
- . (b) 6 Mesquitoes of 139 Squidren were to drop white drip flares at tate of 4 bundles per nimute until their supply was exhausted, after flying the target T.I. and turning on to a track of 360°. 3 were to release at zero + 5 and 3 at zero + 10.
- (c) 6 other Mesquitoes of 139 Squadren were to attack with bembs at intervals of 5 minutes between zero + 30 and zero + 55.

...../SORTIES.

TITS

	(2)	Hc.	of	circraft Gespatohec 7	64
•	(b)		**	" reporting attack on oring respect	51(85.23)
		•	12	" " " clternative are	20(2.6%)
	(c)	11	11	abortive sorties (tech. efect or minipulative	
	(~)			crrs:49)	
				(icin	68(.8.95)
				(eraw failuse	51
				(fla::)	
	(e)		**	aircraft missing	25(3.35)

ELTHER KYPERITY CHE

5. Bases:- Variable - mainl small- amounts of cloud. Local mist and fog atches S. of Humber.

Route and target: - 10/10ths, over whole area. Tops 6-10,000' over North this thin upper layers over Continent to 15-17,000', with high cloud above 20,000'. Light icing in medium cloud; slight to medicate static from 04-09°E. No mean.

Winds:- Bases to 08°Z. 260 - 280°/35 m.p.h. 08°E - Ferlin. 240 - 260°/ 30-33 m.p.h.

IGHT PHOTOGP. PHIC ST. TISTICS

11 night photographs showed 10/10ths. cloud.

LULTIVE OF LITELOR

The attack opened on two with red T.I. the signifier flares, which were mintained without a break until the close of the plantal period. Solind surfers had marked the target when the release point by zero-hour. The markers and flares were emecutrates, although the absence of may photographic evidence takes it impossible to assens their accurage. Great reports suggested a highly successful attack, and this openion has a minual by the enemy's complaint of a "heavy terror raid". I Mosquillo over the target at zero + 7 reported that 2 min fire concentrations 7-10 minus up at were reflected on the clouds. This reflection could be seen for 80 miles on the way home.

L." RECORPLISSANCE

for throughout the last wack of November and the first 3 weeks of becomber, for lin was covered with a thick blanket of cloud, and persistent attempts to partograph the city by day failed until the 20th. December. The enormous damage then revealed was the result of 6 major raids, of which that under review was the second to be delivered. The absence of night photographic evidence makes it impossible to assess how much devistation was caused by any particular attack; a employed statement of the damage will be included in Night Raid Report No.489.

LITERALITYE TLRGETS

'7. 20 sireraft attacked alternative targets, in the areas of: Texel (4), Innover(3), Vlieland(2), Enkhuisen(2), Vieringen, Brancen, Brunswick, Den Helder, Celtew, Juterbog, Lathen, Arabburg, and Brancenburg.

FECILE EQUIPMENT

'f. H2S 9 opening blind-surkers reached the target with their sets in order the dropped red T.I. and flares blindly, after checking their position on b.R. runs from Rathenov. 2 special blin -a rkers (equipped with H2S 'k.III) dropped reds and yellows in salvoes according to plan, and 15 liter blind markers sent down telease-kint flares blindly; 16 of these also arapped greens. The tiding of the blind-markers was excellent, and a good concentration of release-point flares was maintained from zero - 2 until zero + 27. 109 of the 176 main force aircraft sarrying H2S for navigational purposes from their sets in order over the target.

...../8 Y-aircraft were lost,

8 y direreft were lost, and one other crisic on return.

ETEN DIFINERS

- 19. Ground defences Searchlights were removed useless by the cloud; heavy guns fired predicted "unseen" flak at selected targets, often with extracouracy, and a burrage around the marker flares, at 17-23,000'. The light mostly fired up to 15,000', although some flak was seen self-destroying at heights up to 23,000' an above. Ill crews reported intense opposition from the ground defences.
- 20. Pighters No running commentary, and only 5 controlled fighter some were overheard. Norther conditions kept meet of the energy's directoft on the ground, although some were active in the target area of others operated unground control from Holland and F. A. German. 2 claims by the latter were everheard, both in the Declem/Managed area against returning bombers.

C.SU.J.TIES

21.	H . of :	aire	raft misni	ng			25 (3.
		**	ಮಿ. ಚಿತ್ರಕರೆ -	(f2-,'	80)	
			00000	(1' hter	1		95
	•			(British inconsistics	5)	
				(collice with British Ve	2	5	
				(other oluses	7)	

Only 10 losses can be ascounted for. I liver it were shot down by fi in the target area, 2 were lost to controlled fighters in the Deelen area on the way home, and 3 were lost to controlled fighters around Ferlin. The other 19 losses must be attributed to unknown a list. The total percentage is low for important a target.

80 aircraft (over 10.) were derived by flat, nearly half of these on return journey, as the result of straying over well defended areas; some aircraft were probably lost in this way. One was deriged beyond repair. 2 Halifaxes collided over England on return; 2 lane sters crashed while taking and one Halifax while landing, and one Stirling ditched in the North Sea. Dithese 6 siroraft were wrecked.

THVEREUSEL!

22. 12 OFOE Mosquitoes were despatched on a precision attack against the chemical works of I.G. Parbenindustrie at Leverlasen. 9 were equipped with 3 aircraft working on each of channels of I, II and III. As on the previous raid of 19/20th. November, trouble this experienced with intermittent signals, only 4 aircraft make controlled runs. A boulded on D.L. and are returned early because its expensionally had failed. The 3 M. II aircraft worked on Channel but none received satisfactory signals and all released on L.h., 2 in the Leverlasen area and one near Onlogic. All acturned safely; 2 received minerals duringe.

10.00.72.00

 14 Wellingtons Inid 27 dim.s without incident off the Prisions and the Dutch coast.

LIPLY

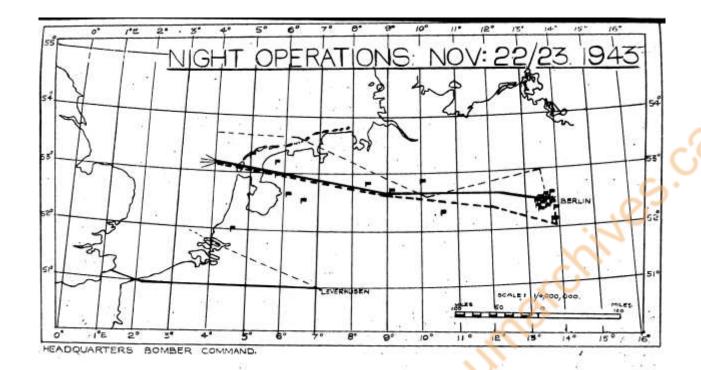
24. If Whitleys and 'ellington' dispersed localets over towns in N. France twelfth returned early. He case tick were sustained.

HIM/JT. BC/S. 26342/5/ORS4, 24th. Jenuery, 1944.

PARGET	GROUP	AIRCRAFT TYPE	Scores	ATTINGS			TIVE	izss-		Del.ok	ij Karastelles		I frigit:	CTICL	Burb Tonnage
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	100 P	Hal-Li	14	13	1	-	7	1.5	2		- 5				26.0 36.
- 5	1000	lanc.III	60	50	2	-	2	_6	-		1	-	1	1	N. 41.0 32.
	8	hal-Li	6	5	-	1	-	7.				-		-	Heavy Bont
	25.1%	lanc.III	29	27		7	1	100		200		-			1.400±4,000
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	3	Etir.III	50 .	52	2	5	7	4	25+3		- 30	1B+1B	1.1	-	
	1 6 1	Ianc. II	18	16	*	-	2	2	3	-			* =	7	
- 1	4	Hal-LLAV	34 96	25 75	2	1	8	3	1,,0+b 15+11		2%+1	18	-	-	
		lanc-I	39	34	1	1					1.0	13		2	
	2	Innc.III	126	118	2	2	2	2	1C+10		2.0	1		1	
9	6	Hal-ILEV	40	32	1	-	- 4	1			-	-	1	2	
3		Hal-La	43	35			1	3	10+5		1.0		11	- 2	127
ana ang ang ang ang ang ang ang ang ang		Icho.II	27	26			1	102.1	3 1	- 1		-	4	3	No. of the last of
	-	-	-	- Company				-	15+1B+	-	2E+5C		-		
SEEC.IN TOTAL		- P	764	651	50	19	49.	. 25	10.40+68	10	+2	4E+1B+	11	21	

../c servery | Lierative LAZLER. ROSULTS Lord Toronage TXR.PI INTERCESTIONS SORTING COTTOS OV'R NOT E.T. COKE E.T. T.RGTT UROUP PED. J.T. 150004 772E PERHER CLUSIES CLUSIES E'''H.L. Inc. 227 .PR. -75. 140 12 TOP9 28+5-20 126-126-49 10.22+58 21 TOTAL BYRE.P. 764 651 20 19 25 4B+12 LEVIERCUSE 8 liceq. IX 10 : Pyp Mong. IV LIMINGUETT TOTAL 12 10 1. 1 2 2E+5.40 661 19 48+19 11 AC RIT: "CI PEGL,VER VAISILIS S. of TEM, 776 50 Well.X 16 mines 6 -------27 mines MENTALYPING TOTAL 14 14 --LEAPLITE - - - -: 1.0 93 Well. Ic Well. III . 442 -45 12 802 -Woll-X Whit.Y --1 . . . -1 -28+5.J. 1E+124 11 51 25 10_C+71 4E+15

300



BOMB PLOT No. BOMB PLOT NOT AVAILABLE

BOMBER COMPLIED REPORT OF WIGHT OPERATIONS

23/24th. NOVER E. 1313.

BERLIN: Knapsach:

SUCCLRY

- 1. Berlin 383 aircraft, mostly Linousters, left to stoke the fires raised in Perlin on the previous night. The city was still covered with cloud, but another concentrated ground and sky-marking attack was delivered. More fighters were encountered on this occasion, and 20 mircraft (5.2.) were lost.
- 2. Knapsack 6 Mesquitoes were detailed on a precision attack against the power station at Knapsack; but only one made a controlled run, the rest bombing on D.R. One crashed on return.

TITHE POLECUST

[2] Warm 50°F. 00° - Marguell (3) cold 50°F. 00° - S. or Postrove. Rain and cloud at 1,000-1,500' will affect bess som after lunk, or earlier in F. Cold front will lie from Wash to Plymouth at 0200; 5 (roug and northwards will clear, but will be in frontal rain. Visibility not voice thin 2,000 yards.

Germany:- Cold front will lie at michight from 55°N. 18°E. to 50°N.10°E. to S. of Bordenux. V. of the front there will be strate-curulus and broken medium cloud with good clemances; N. of 05°E. conditions will be fine, with moderate visibility. Barlin has a good chance of clear skies; at worst, 10/10th strate-curulum from surface to 10,000° with thin layers above.

P.PLE

PLN OF ATTACK

- 4. Route Cromer 53°00'N. 04°00'E 52°10'N. 09°00'E 52°36'N.12°21'E BERLIN 52°25'N. 13°50'E 52°00'N. 13°50'E 52°23'N. 12°00'E 52°10'N.09°00'E 53°10'N. 04°00'E Cromer.
- 5. Route-marking all primary and secondary blind markers were to drop green T.I. at 52040'N. 10005'S (35 miles/527°/Trunswick) on the may out, either on H2S or visually; and green'.I. at 52018'. 12020'S (9 miles/2140/Erandenburg) and at 52035'F. 10005'E (25 miles/3200/Bruns ick) on the way home.
- f. Method of Attack Privary blind a rears were to mark the aming-point wit red T.I., and to release one bundle of flures each (red with green stars), blindly on H2S. Special blind markers were to mark the exact cining-point blindly with reds and yellows in salve, drepping h bundles of the above-mentioned flures. Secondary blind markers were to drep green T.I. and release one bundle of flures. Early backers-up were to aim greens at the salvess of reas and yellows, if visible; otherwise at the centre of reds with a 2-second evershoot. Later backers-up were to aim greens at the centre of carlier greens with a similar overshoot; but if cloud obscured the T.I., they were to hold their greens and book with the supporture. The latter were to book on H2S, unless their sets were out of order, in which case they were to aim at the centre of the release-point flures on an exact heading of 100%, with booksight set for true height and airspeed and zero wind at a speed of 150 I...S. Main force aircraft were to book on the centre of all visible greens with a 2-second overshoot; or, in difficult cloud conditions, to adopt the method prescribed for the supporture.

) -- v-

10 4 0			_
The state of the s	2.	Dur tion of Ltte	rck: 1958 ~
	2000		1350-2 See Col
Princry blind markers Special " "		. at zero - 2 .s at zero - 2, .	1, +2, and 1
Secondary " "	10 T re	s.) it zero +1, +2	2. +3. +4. (2)
50001.0.23		.)+3(2), +9, +10 +13 and +14.	
B.ckers-up		s. at zero s. from zero +1	to zero +14 (a
2 -	73 =		14
Supporters	703A960 F 10	s. at zera - 2	
Anin Porce	103 -/c.	from zero to z	o zero + 10
	111 27	from suro + 10	to zero + 15 like
8. Marker loods		. <	<u>E.Ra</u>
Primary blind E.rkers.	1x4 flures re 3 green T.I.		rs: 4 red T.I. 13.
. Special " "	4 yellow T.I.	ed with gram ata (2LE)	
Secondary " " (H	(513) (513) (ees red with gree	m stars: 7 grees the
(2		res rec. with cree	n stars: 4 gree the
and St.	1000		2.5
Backers-up		. C.I. (ZEC)	-17
9. Tactics (a) WEEDO7 2 nimites to a point 30 miles 30 miles of the target in better	from the teng	goed at Mic rate get; on: Sundle e and on: Sundle	every half-minute i-
	to proceed to	the toward S. T.	, turn on to a tr
of 360°T. for 3½ niles, then flares at 20-second intervals	turn in to 290	OT. and release	spoof white drip
(c) 5 Masquitaes were zero +40,+45 and +135 (3), ai	to barb after sing ut the co	the main differt ntre of fixes but	had finished at
SORTIES	1-	50	
(c) " " "	rting attack o	a primary area I alternative ar	302(79.0 ea 15(3.3
(d) " "abertive	8	lefect or minipu	27)
	(crew	failure	
	51351ng	······	20(5,2
WE THER EXPERIENCED			
†1. Eases:- A belt of tases during operational per %. of the rain belt, aloud w	inc, affecting	East Aglia at	the time of return-
Route:- 10/10ths. pore layers above circuift.			

... /Low Countries and

Countries and North Sea on roturn, with light icing and static.

Berlin:- 10/10ths. thin layer cloud at 5-7,000', breaking up towards and of attack. Moderate visibility. No moon.

Winds at 18-20,000':- Buses to 03°E 250°/40 m.p.h. 03-10°D 280°/45-50 m.p.h. 10°E - Berlin 270°/40 m.p.h. Berlin 230-250°/25-30 m.p.h.

HIGHT PHOTOGRAPHIC STATISTICS

12.	He.	cf	photo	graphr	ex	minal.			 	• • • • • • • •	145
1000	**	**		plott	cć j	in targ	at are		 		0
	11	*		- "	err	trget		(greund (fire-tr		8)	70

There is insufficient photographic evidence to show how many aircraft are likely to have bombed in the target area.

RRATIVE OF ATTACK

13. I good e mounts tien of both flores and I.T. was anistined from 1956 to 2017 hours. The glow of the T.I. could be seen through the cloud; a few breaks were reported, through which green T.I. were seen burning in built-up areas. Summerous nights explaines were heard and seen, and of which chased a glare which is alleged to have I sted for 60 acc mes. The boubing heading laid down was closely adhered to but the timing of the supporters was poor, so that their primary purpose of helping to saturate the desences at the opening of the raid was not achieved. The accuracy of the blittle arkers was probably better than on the previous night.

AN RECOGNILISS. NOT

11. Photographs of the German capital were in that tained until 3 more major attacks had been delivered, and it is impossible to attribute any particular incidents or areas of devastation to this operation. Full fetails of the destruction caused during the first 6 raids of the Bettle of Berlin will be included in Fight Raid Report 19. 489.

LITERATIVE T.RGETS

if. 15 aircraft attacked alternative targets, in the areas of: Texel(8), Dan Helder(2), Lathen(2), Lastrup, Zwelle and Bolon.

SPECIAL BOULDER

- '6. H28 (a) Primary blind-markers. 18 Y-iroraft were despatched in this expectty, 14 of which dropped skym-rkers an. T.I. blindly after checking their position on D.R. from R.thenow. 2 hortics were abortive, for technical reasons; and 2 aircraft were lost.
- (b) Special blind-markers. Il) discreft equipped with Hk.III H2S fund their sets out of order ever the La Countries, and drapped their books in Texel.
- (c) Secondary blinl-markers. 19 of these directive detailed to maintain the marking, but only 7 released skyn rices and green 7.1. 8 mireraft held their markers, 5 because of underviceable sets and 3 because the indications on the P.P.I. did not check with their timed runs from Rathenes. One aircraft bombed Texel and another returned early, both for technical reasons. 2 were
- (d) 94 main force aircraft carried M23 for navigitional purposes. 63 found their sets working over the target, and 3 used them to bomb blindly. 6 more Y-aircraft, making a total of 10, were look.

....../Z ELY LEFEICES.

EVERY DEFENCES

- 17. Ground defences The heavy guns of Berlin ware less troubles to en the preceding night; they fired a burrage around the marker flores to between 15,000' and 20,000'. Intense light flak was also sized at flores generally above 15,000'. Little opposition was encountered on route, and Taxel, but off the route the defences of Branca, Enden and Hennever were notive.
- 18. The same route was followed a on the provious night, Fighters experience of this smaller force, compassé entirely of Lancasters, was quidifferent. The carlier operation had been roughfule for the absence of lance fighters and for the intensity and accuracy of flak in the target or on this night, the flak defences were emparatively quiet, but a great eff was made by the fighters. (This is consistent with the theory that, give favourable weather conditions, the fighter force is employed as the principal weapon of defence, with priority in the une of the sky even over targets w such redoubtable flak defences as Berlin. Un or all circumstraces, grown controlled fighters apparently operate to the best of their ability). night, controlled fighters were heard along the route from the north of Ho to as far east as Quackenbruck; but they made no claims. The running com directed freel nce fighters from 1812, sonding them towards Earlin at 1930 concentrating them on Brandenburg by 2000 (zero hour), whence they were dito the target. The main body of fighters probably arrivel over Berlin at 2008.
- 19. COROLL (first employed on 22/23rd. October) was again used, and considerable annoyance to the German commentators, who were forced to prefer many messages with code numbers. They tried using a woman as a mouth-pice were immediately countered by a female COROLL, who passed wernings of fog a bases and told aircraft to land. Spoof fighter flares, dropped by Mosquit to the morth of the borber stream at the time when most of the fighters sen arriving over the target.counted some diversion.
- 20. No returning or two minimed to have destroyed fighters, but observationsuggest that 2 enemy air chart were, in fact, brought down over Berlin.

CASUALTES

On the way out, 4 aircraft were seen to erash between the Lutch consideration. The cause of these losses in object, as no fighter claims we heard. 4 more were shot dryn by fighters between Greningen and Hannover, one fell to the guns of Texel. Over Berlin, 3 aircraft were destroyed by in the first 15 minutes of the attack, and 5 by fighters; one in the early stages, 2 towards the end and 2 shortly after turning for home. 4 lesses therefore be attributed to risk, 9 to fighters, and the remaining 7 to unknowness.

22. 6 returning aircraft were damaged beyond repair, one by flak and the as the result of landing accidents.

RI PS.OK

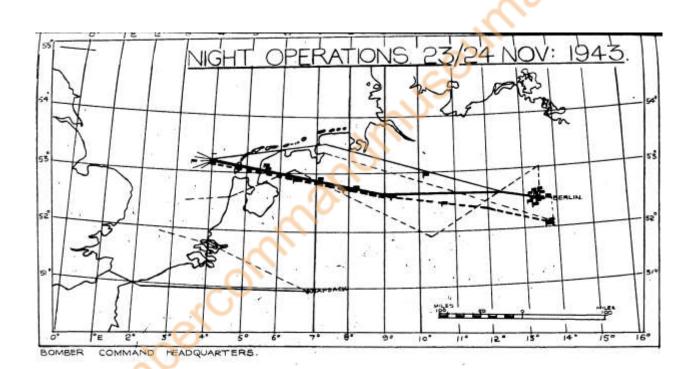
23. 6 Mk.I OBOE Mosquitoes, 3 operating on Charact II and 3 on Charact II were detailed to attack the Goldenbergwerks Power Station at Enapsack, but a one could make a controlled bombing run. 5 had OPOE failure and bombed the primary on D.R. Hone was lost, but one crashed on return with the loss of the crew.

MINJT. BC/s. 26342/1/ORS4, 31st. January, 1944.

23/24th. Noviether, 1963.

caone	LIKELYT	SORTUR					MTSS-		IMEG			DITRICK	TIONS.	108301.Tt. 100.3: TORRIGIO
			PRDL .RR.	ALT.	OVER E.T.	150°C	II.C	Plant.	STOPPER.	HESC. III PLIGHT	CLIERS CLIERS	ED	LICT LITLCX- ED	H.R. Inc.
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Dah.			9	-		1	12			-	40.00	7	-	31.7 13.6 Н. 48.2 36.8
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DCE/JT. 0. R. H. J.



BOMB PLOT NOT AVAILABLE

COPY NO. 16

BOMBEP CONSLIND REPORT ON NIGHT OPERATIONS

24/25th. NOVE BER, 1943.

Berlin: Leaflets:

MOLRY

Berlin 6 Mesquitoes, not equipped with precision devices, were despatched in a harassing raid against the German capital. 3 attacked the primary, bombing in D.R. or B.T.A. in clear conditions. 2 returned early and one was lost.

2. <u>Leaflets</u> 9 Wellingtons left to disperse leaflets over towns in northern rance. 3 reached their targets, and 2 others dropped their bundles over other reas. 4 aircraft returned early. No casualties were sustained.

WEATHER FORECAST

Midnight frontal positions:- (1) cold from 51°1.06°E. - 57°N.15°E - 50°N.11°E. - N.E. Spain.

Bases:- Fit all night, with variable amounts of convection cloud, good clearances and good visibility. Showers on east coast.

Germany: - Convection cloud will extend above 20,000' over Central North

Bea, decreasing eastwards towards Central Germany. Good clearances over Ruhr and

Middle Rhine. Cloud to great heights along front, with rain. Much layer cloud

E. of the front. High winds.

France:- Conv : sloud over W. coast, with heavy showers. Broken convection cloud inlar.

SCHTIES

Berlin Leaflets

4.	(a)	No.	of	airc.	: patched	6 9
	(b)	=	Ħ		seting attack on prinary area	
57	(0)	"	"	* **	" " alternative area	
	(a)		*	abc	.ve sorties (tech.defect)	2(tech.def.2)4 (weether2)
	(e)			air	rd' desing	

FEATHER EXPERIENCED

5. Berlin: - 10/10th cirrus at 24-27,000'. Layer cloud and haze below.

N. France: - 10/10ths. quaulus to 20,000' and above. Severe icing. Thick for.

EDRY DEFENCES

No fighter activity was everheard or reported. Little flak was encountered.

CSULTES

7. One Mosquito was lost on Berlin. It was seen leing accurately engaged by the guns of the capital, by which it was probably destroyed. No other damage was sustained.

15.4/JT. 30/3.26342/5/ORS4, 22nd. January, 1944.

24/25th. NOVEMBER, 1943.

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BOMBER COMPLIED REPORT ON MIGHT OFFICATIONS

25/26th. NOVE BER, 1943.

FRANKFURT: Berlin: !finelaying: Leaflets:

YEAR

Frankfurt 262 heavies, postly Halifaxes, left to make a ground marking tack on Frankfurt; but unexpected cloud was met over the target, and the T.I. quickly lost to sight. The attack became scattered, and little damage was sed, although a few factories were affected. 12 aircraft (4.6%) were lost.

Berlin 3 Mosquitoes carried cut in uncountful harassing raid against

Minelaying 37 aircraft, out of a force of 18, laid 122 mines off the man itlantic ports and the Prisians. One mireraft was lost.

Leaflets 28 aircraft from Training (roups, accommand by 7 U.S. rresses, dispersed leaflets over no. therm France without loss.

THE FORECAST

Bases:- A warm front is approaching from the lith ratio, but is not expected give rain and low cloud in operational are a before arm. Bases should be fit night, with visibility generally above 2,000 yards. Cloud will gradually sperse.

Germany: - Convection cloud, to cring over the North Sea to above 20,000', Il drift into N. Germany as far as the edge of high ground. Frankfurt; good are of little cloud, and good visibility. Very variable cloud en route; mirally 0-7/10ths., below 12,000', increasing to 8-10/10ths. (tops 15,000') of a narrow belt near 05°B. 7-9/10ths. cumulat and cumulo-nimbus from Frankfurt Berlin, tops averaging 15,000' but increasing to 20-30,000' towards Berlin, is some anvil cirrus. High winds.

France:- Little cloud in central and E. France. Increasing medium and in W. with broken cloud and scattered showers.

FR.M. CHET

S OF ATT.CS

Route Beachy Head - 50°20'17. 01°30'E - 50°15'17. 08°00'E - PRAINFURT - 50°15'17. 09°00'E - 49°45'17. 09°00'E - 50°20'17. 01°30'E - Beachy Head.

Route-marking all blind a rkers and backers-up were to drop red T.I.

3) at 9 miles/1839/Coblenz on the war out, and red a of fires at 6 miles/1809/
Instadt on the return journey.

Method of attack Blind-markers were to drop yellow T.I. on the simingint, at the same time each releasing a string of white flares; first bundle
seconds before the T.I., and the others at 10 second intervals thereafter.
such markers, guided by the yellow, were to mark the exact diming-point with reds
ter positive identification; if uncertain, they were to hold their reds and aim
tens at the centre of all visible yellows with a 1-second overshoot. They
ght use white flares if necessary. Enckers-up were to aim greens at reds
ring the early stages of the raid or, if none could be seen, at the centre of

...../yellows with a 1-second

yellows with a 1-second evershoot. Later arrivals were to dim greens at a centre of greens with a simil r evershoot. Supporters were to book on Hz. possible, otherwise at the centre of yellows or visually. The importance accurate tining was stressed to these aircraft. Lain force crews were to be VET3 en reds or the centre of greens. ked t : ppe 8. Zero hour: 0245 Durathen of attack: 0240-0255 Timing ir. tter 9 Hala. and 6 Lines. it zero - 5 Elind-markers RX Visual markers. 6 Hala. to arrive at acro - 3 and bomb as seen as certain of the miming-point. 4 Hals. and 6 Lancs. from zero to zero+9 (1 per m Backers-up. roug r ti 32 Hals. and 9 Lanes. from zero - 5 to zero. Supporters. Main Force. 70 a/c: from zero to zero + 3. 97 a/c: iran zero + 2 to zero + 6 97 a/c: from zero + 6 to zero + 10 Including some non-H2S t/c of 4 Group. 9. Marker loads 6x4 white flares + 2 y llow T. I. (1LB) + 1 red T.I.(LE Blind markers. 1 red spot. 1x4 white flores + 10 red T.I. (511) + 1 green T.I. Visual markers. 4 green T.I. (2LE) + 1 red T.I. (LB) + 1 red spot. Enckers-up. Tactics WINDO! was to be dropped at the mate of one bundle per 2 bin en route to 20 miles from target; 2 bundles per rights within 20 miles of the target in both directions; and one bundle per state for the rest of the way home. SORTIES (a) No. of aircraft despatched...... " clternative area..... abortive serties (tech.defect or remipulative error...15) (callided with Pritish aircraft.... 1) aircraft missing...... WEATHER EXPERIENCED Bases: - ' Fit all night. Route: - Cloudless across England; 4-6/10ths. layer and convection cloud ever Channel, tops 8,000'. Cloud increased stendily to 9/10ths. at above 50°N. 07°E., with tops at 18,000'. These conditions persisted to the target-Frankfurt:- Residual convection cloud in several thin layers, total 9/10ths., tops 18,000'. No moon. Wind at 18-20,000':- 300°/55-60 m. NIGHT PHOTOGRAPHIC STATISTICS No useful photographs were retained. ...ll showed cloud. 13.

TT... TO HIT...

The target was unexpectedly covered with cloud. Sout of the 15 blindkers drapped yellow T.I., but these were quickly obscured, and only 2 aircraft ked up with greens. The main force boubed what markers they could before they appeared into the cloud, but later could only boub the glow beneath. The ring of the Pathfinders was good, but the attack must be presumed to have been attered.

RECORLISS NOE

The western and southern areas of the term were covered by cloud when commissance thotographs were taken. Elsewhere, little darker was visible, though 9 factories, including 4 of priorit 2, and a few industrial buildings at the west harbour, were affected.

EMILITIVE TARGETS

4 mireraft attacked alternative targets, in the areas of: Prinz, Couvin, rok-sur-mer and be Havre.

DILL NOUPERE

MY DEFENCES

Ground defences Slight to unfor to bely flux was encountered over ankiert in the form of a loose burned up to 10,000. Scarchlights were tive, but could not penetrate the cloud; a continuous belt was reported between whein and Mainz. He trouble was experienced on route, apart from a few rate of heavy flux at Combrei.

Fighters normal amount of fighter activity was heard, but combats and gatings were unexpectedly few. I running commentary began at 0220, plotting allerant to the west of Humbein; the only doubt appeared to be whether that by or Prankfurt was the main objective. At 0244, all aircraft were ordered to inhalart where the flak ceiling was said to be 15,000'. Ghostly interruptions it provided by COROLL in the form of adverse weather reports and lending structions.

STATES

HEA OF CI	rer.	rt minsing		12	(4.0.
) a	"		(flek	22	
			(calliled with Fritish t/c 2)		

The heavy cloud on route and over the target restracted observation, and My 7 losses were seen. 3 aircrift were lost to fighters, 2 on route at Arras 2 Plerennes respectively, and end over the target. 3 nore were shot down by 10 gins of Frankfurt, and a seventh was seen to crash in the target area, although 10 cause could not be acceptained. The number of ironal damaged by flak is will for so well defended a target; search that enall not illuminate bombers frough the cloud, and the guns probably echieve few accesses apart from those receivements. Hest of the other 5 lesses were probably due to fighters. If Halifax crashed on return, and another superince severe fighter damage. 2 childed in the cir, but escaped serious infa.

TRE

21. 3 Mosquitocs carried out in uneventful larassing attack on Berlin. returned unduraged, after benbing the primary on D.R. through 10/10ths. clay

KITLIVEG

22. 48 Stirlings, Wellingtons and Lineasters were detailed to lay mines the French atlantic ports and the Prisions. 37 reached their targets, laying 122 mines. 10 returned early, and one was lost without trace. 5 aircraft were equipped with H23; none used it to determine their final position, but employed their sets for navigational purposes.

LIPLIES

23. 28 Wellingtons and Whitleys and 7 U.S. Fortresses dispersed leaflets successfully over allotted areas in northern France. ...ll returned safely.

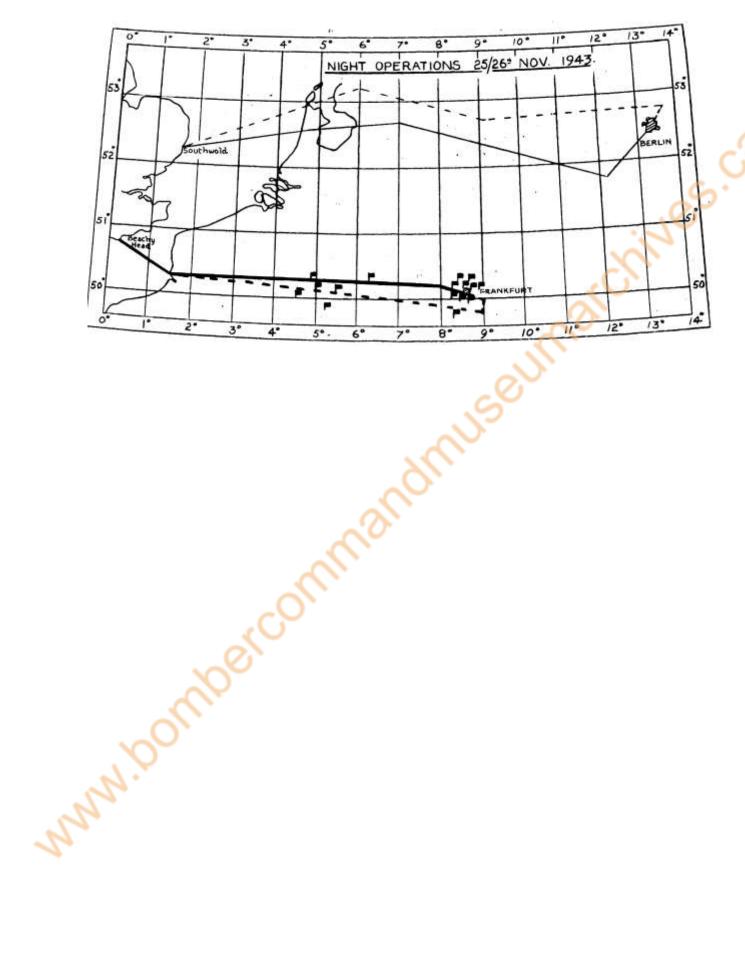
MLM/JT. BC/S. 26342/1/ORS4, 2nd. February, 1944.

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MMM. PORIDOR



SEPT NO. 16

T. MODERANY NIGHT PAID REPORT 18: 176

APPENDID

NOTE OF PROPOSED TO STOR

It has long been customary in this Co word to theses bombing achievement in major area-target raids in terms of a circle of 3 miles radius centred on the siming-point. The photographic evidence in the Night Raid Report has been given in this form and usually includes an estimate of the number of aircraft which bembed within this circle.

- 2. As from the Berlin raid of the 26/27th. Mevenber, 1943, this 3 miles circle is being replaced as a criterion of achievement by an outline bounding the "Target Area", where this is defined as the area officially zoned in the Zene Maps but emitting Zone J, he suburban sone. Since with very few exceptions this target area is smaller than the area of a 3-mile circle, there will be correspondingly fewer aircraft chieving success (on the average) than formerly.
- in addition to annealing this change of criterion, it is the purpose of this note to explain briefly how the photographic estimates have been calculated in the past, from the beginning of May 1943 until the last Night Raid Report, to present amended estimates for 21 of these raise which have been subjected to a specially detailed analysis and, on the basis of the latter, to state how the estimates will be calculated in future.
- In absolute minimum estimate in given by approximing the number of direraft plotted within 3 miles as a parcentage of all direraft reporting attack, thus assuming that none of the unplotted aircraft by bed within 3 miles. A second estimate (not, indeed, not with the parcentage of all chained by expressing the number of the second aircraft plotted, thus counting the fact that a plotted directly plotted, thus counting the fact of a plotted directly three distributed with respect to the 3-mile circum like the plotted. I release not being available on there the true value should in within this range, the average of the two estimates has hitherth been used. Of many, this average is more reliable when the range is small i.t., then the proportion of directly plotted is high.
- j. Detailed embyois of 21 raids, involving the constant of all unplotted photos is inside or orbitic the access of a contractor, has yielded the amended estimates shown in the laterous table (column), which also shows in column (1) the average values and higherto. The latter ray, on the whole, slightly pessiminate: exact agreement with the average avoised estimate would be achieved by assuming that the true value lay at these quarters of the range tower minimum and 'accious', instead of at one half. The previously published estimates, "No. of aircraft estimated, from the photographic evidence, to have borbed within three miles-of the mining-point' are obtained by multiplying the number of aircraft reporting attack by the percent and shown in the table. Column (2) shows what the "three-quarters of the range" value would have been for these raids.
- f. The same 21 raids have been analysed with respect to the proportion bombing within the target area, and it has been found that the same three-quarters rule applies. In future, therefore, the photographic estimate published in the Right Raid Report will be the minimum value plus three-quarters of the difference between the minimum and maximum. In addition, as a guide to the accuracy of this value, the minimum and maximum values will also be quoted.

53P/JT. 12th. January, 1944.

Table: Percentic of r/c borbing within 3 miles

1.1.2.

	0.0					
				1.	2.	3
3	Target & Date		1	Published Vilue Half the kinge	"Three fuarters of R nee" Value	Final
	Mennheim ·	16/17.4.43		9ر	51,	166
,	Duisburg	26/27.4.43	19	31	37	1
- 12		12/13.5.43	5	65	75	Ti 12
	Bochun	13/14-5-43		52	_ 57	56
	Pilson	13/14.5.43		90	94	91 °C
	Dortmund	23/24.5.43		48	57	62
	Barrien	29/30-5-43		76	85	95
	Lusseldorf	11/12.6.43	**	80 .	95	63
	Munster!	11/12.6.43		72	. 31	82
	Friedrichshafen	20/21.6.43	-	. 39	95	91
	Krefold	21/22.6.43		74	81 1	82
	Cologne	3/4. 7.43	~(77	. đ2	80
	Turin	12/13.7.43		71	77	75
	Homburg	24/25.7.43		7.2	43	. 44
	n .	27/28.7.43	5 6	15	49	47
	Nurnberg	27/28.8.43		. 27	30	38
	Mannhein	23/24.9.43		41	34	. 44
	Hannover	27/28.9.1.3		16	18	. 16
4	Kassel	3/4.10.43		75	20	* 81
6	Hannever	8/9,10.43	W = 0	79	86	. 87
7.	K-sscl	22/23.10.4	3	86	90 .	88
	Average values:			61.:	67.0	67.0
63						8 800
- 1	20.					

. - - - - - - - - -

BOUBER COLONED REPORT OF HIGHE CRIRATIONS

26/27th. TOVE STR, 1913.

BERLIN: STUTTGAM: Minelayin: Leaflets:

MARY

Berlin The fourth raid of the Eattle of Berlin was delivered by 376 measters, led by 7 Mosquitoes, from a cloudless sky. The primary blind-markers re-scattered short of the target and I's of track, and all but one of the condary markers had non-serviceable equipment, with the result that the bombing cane centred some 6-7 miles Note of the city. This area fortunately includes a important industrial districts of Moinicandorf and Teyel, and numerous cerity factories received cripoling damage. The instable Borsig A.G. were 45% wastated, and Argus Motoren, Borguann Elektrisitationeric, Borddeutsche Dornier i Mauserwerke were very severely hit. For Anistern were seen over Berlin, the main controllers mistaking Frankfurt for the main objective, but flak opposition a intense. 28 bombers (6.2) were lost. 14 others were wrocked beyond repair.

Stittgart 173 Lancisters and Halifanes accompanied the Berlin force as res Frankfurt, and then turned off to attack Stuttgart. This manoeuvre ceived the fighter controllers, who never identatied Stattgart as a major jective, and concentrated their fighters on Frankfurt. The raid was somewhat attered but serious dange was caused to the Lainler-Benz works at Unterturkheim. buildings of this factory, which had hitherto even only slightly damaged, were t, several being destroyed. The Adolf Hitler studius was partly demolished. aircraft (2.8.) tere lost, and 3 others were wrecked on return.

Minelaying 34 mirerart half 125 miner off the Prisings and the Lutch est; 2 others returned early. For mirerart was lost, but one flew into the cund on return.

Leaflets 5 Wellingtons dispersed leaflets uneventfully over N.France.

THE FORECAST

Midnight frontal positions: (1) warm from 51 1. 12 W - Brest - Bayonne.

Bases: Little cloud all night. Fog will become general after 0200, visibility will deteriorate slowly.

Germany: Convection cloud, tops bove 20,000' over E. North Sen and T. constil strip of Germany, will decrease and lower inland. Hiddle Rhine: ed clearances in cumulus and strute-cumulus, giving 5/10ths. at Frankfurt and ther more cloud further E. Strute-cumulum tops on route will not extend ove 10,000'. Berlin: good chance of less than 5/10ths; occasional cumulo-rous tops to 20,000'.

W. France:- Increasing medium cloue.

N.RLIII

OF ATTACK

Route Benchy Hend - 50°20'E. 01°30'E - 50°20'E. 09°10'E - 52°15'E. - EPRLIN - 52°40'E. 13°50'E - 53°00'F. 13°40'E - 52°38'E. 10°00'E - 40'F. 04°40'E. - Southwold.

1

- 7. Route marking All primer; and secondary blind-markers were to dreg T.I. (LB) 3 miles/180°/Goblena and culti-flash reds at 20 miles/125°/Magdebathe cutward journey; and red T.T. (LE) at 34 miles/325°/Erunswick on the my hand.
- 8. Method of attack Privary blind-markers were each to drop a bundle release-point flares (red with green stars), and to make the target with red using H2S. Special blind-mark rs were to mark the exact aiming-point with and yellows in salve, and drop h bundles of release point flares, also on Exceeding blind-markers, bombing at regular intervals throughout the attack, to keep the aiming-point illuminated with greens and release point flares, dropped blindly. Early backers-up were to min greens at the salvoes of red and yellows, if visible, otherwise at the centre of reds with a 2-second eversheet. Later backers-up were to aim greens at the centre of all greens already dropped, with a similar overshoot. If cloud obscured T.I., they were to join the main force, retaining their T.T's this bombing blindly on H2S. Supporters were also to attack blindly, if their sets were in order, otherwise bending the centre of reds, or release-point flares, on a heading of 068°M., a speed of 152 knots T.A.S. Whin force minerally were to bend the centre of greens or release-point flares on the same heading.
- 9. Timing Zoro hour: 2115 Exaction of attack: 2113-2127

Primary blind-markers: 12 a/c. at zero - 2

Special blind-markers; 5 a/c. from zero - 2 to zero + 2 (one per min

Secondary blind-markers: 11 a/c. from zero + ? to zero + 12 (one per ma

Blokers-up: 3 : (0, 0) : or t = 0 : 0 + 9 (one per min.) (charge t : core + b)

aupporters: 35 %. ...t merc - 2
20 %. ...t merc + 2

Hain force: 115 c/c. from zero to zero + 4 116 c/c. from zero + 4 to zero + 8 112 c/c. from zero + 3 to zero + 12

10. Marker loads

Primary blind-markers: 122 green-red stars fluxes + 6 red T.I.(41B) + 2 multi-flash red.

Special blind-markers: 4x4 green-red stars fluxes + 4 red T.I.(2LB) + 4 yellow T.I. (2E)

decendary blind-markers: 1x4 green-red stars fluxes + 4 green (2LB) + 2 red T.I. (1B) + 1 multi-flash red.

Buckers-up: 4 green ... (2LB)

- 11. Thatics (a) WINDOT was to be dropped at the rate of one bundle every 2 minutes to a point 20 miles from the target; at one bundle every within 20 miles of the target in both directions; and at one bundle every minute on the way home.
- (b) 3 Mosquitees of 139 Squadren were to attack the target before the main effort began at zero 6, also dropping large quantities of WENDOW. 4 other Mosquitees of the same squadren were to proceed to the target T.I., turn a track of 145°T., fly for 3½ minutes on this track at then release specificater flares at 20-second intervals. 3 more Mosquitees were to attack after main force at zero + 120.

3.

WEATHER EXPERIENCED

13. Bases:- Por take-off, visibility was no more than 1-2,000 yards, except in Yorkshire. Conditions gradually detarlorated until, by 0100-0200, fog and mist had become widespread 3. of 54°N., except in W. Midlands, 91 Group and S. coast. N. of 54°N. visibility remained meterate.

Route:- 10/10ths, cloud to 10-16,000', breaking locally to 3-6/10ths, around 6-9°E, with occasional tops towering to 18-22,000'. Cloud dispersed to small amounts 50 miles from the target.

Berlin: No cloud. Good visibility. To moon.

Mean wind at 18-22,000':- 310°/50-55 m.p.h.

WIGHT PHOTOGRAPHIC STATISTICS

MARRA' IVE OF ATTACK

15. Only 4 salvoes of T.T. were dropped before zero hour, including one of reds and yellows released by the only special number to attack; these fell 8 miles N. of track. The other 3 consisted of reds dropped by primary markers which, together with the fourth ralvo continued above, formed an equilateral triangle of side 7 miles and with base parallel to the line of approach. Backing-up began at zero + 2 and, although only 9 salvoes of greens were dropped, these were mostly well placed within the triangle of reds. It was around these that the main attack started and remained. One backer-up dropped T.I. in the woods 13 miles P.W. of the siming-point, but these were too far from the main semesuration to attract much attention. There was less tendency than usual to spread back, and little stray booking.

LAY PECCIPIALISE LICE

fe. Full photographic cover was not obtained until 2 core unjor raids had been delivered. The evidence of night photographs, however, suggests that nost of the tange in the Reinickenderr-Tegel area my be attributed to the attack under review. Here there is a group of extreacty important industries, including certain amament and engineering works of the highest priority. Rheinmetall bersig, A.G. (priority 1+), engaged in the production of torpadoes, books, many

types of guns, shells, tanks and fuses, were almost half devistated by fin 45% of the buildings being affected. argue Notoren and Forgusam Elektrizitatswerke (both priority 1) were very periously damaged, together with Norddeutsche Dornier and the large group of armaments factories contains Nauserwerke A.G. (both priority 3). The Tegel gasvorks and by-products planterity 2), as important as any general in Berlin, was partly futted. (a one priority target, the Prenetheus G.m.b.W., ascaped unscathed, Many as engineering works and miscellaneous factories were hit. Other incidents deubtless resulted from this attack in other parts of the city; a complete statement of all damage caused in the first 6 raids of the Battle of Berlin be given in Night Raid Report No. 489.

ALTERUATIVE TARGETS

17. 11 aircraft bombed alternative targets, in the areas of: Brandenbur Coblenz(2), Limburg(2), Stuttgart, Kassel, Capaux, Combrei and abbeville.

SPICIAL EQUIPMENT

- 18. H2S 11 of the 12 primary blind-walkers reported attack; 6 drope T.I., 5 blindly and one on a salvo of rads and yellows. The other 5 held their T.I., 4 because their H2S sets were unnerviceable and one because his indication did not agree with his timed run. The twelfth aircraft was lost 5 photographs were plotted, which suggest that these limited twee short of target and N. of the track.
- 4 special blind-marker, equipped with M28 Me. III, were despetched. do god T.I. blindly after a timed run from Brandenburg, and obtained a phase Les M.E. of the ciming-point. One other remeded the target, but was and horizoned by searchlights and held its narrows. The other 2 returned to
 - 20. The serviceability of the secondary blind-markers was very low; 9 reached Berlin, but only one could use its sec to drop surkers. 4 supports booked blindly on H2S, and 4 main force sizes of their equipment to the their positions before beating. ... the ther, for he 118 Y-mirraft reporting attack experiences no H2S failure. 90-largest were lost.

EURL DEFERCES

- 21. Ground defences Remerces searchlights were active, coming aircraft for the heavy guns to fire intense and accounts "predicted" flak. A metra-berrage was maintained up to 18,000', with high flak basepiping to 16,000'. On the way home, the defences of higher my, Herman and Bremen were seen in action, especially at the list-named team, where macrohlights succeeded in illuminating individual aircraft. Biscone is the flak was mostly predicted our on.
- Fighters The Berlin and Stuttgart forces followed the same mute far as Frankfurt, whence they diverged to their respective targets. no large righter force was encountered over either target. Borlin was Tat ide tified as an objective until it was too late for the fighters to reach " in time, and Stuttgart was never identified. The controllers thought that Frantfurt was the main target, and most of the combits on the cutward Journe occurred on the 50-mile, stretch between Franke'urt and Coblenz, where on 40 fighters were aircraft reported seeing 10 Me. 210 s in lace formation. observed over Berlin, where 9 combats took place . For aircraft were seen a Stuttgart. On the way home, many aircraft strayed from the track, and presented l'avourable opportunities to controlled l'ighters operating between Breach and the Ruhr. Most of the fighters seen were Ju. 58's, but several unusual types were reported, including a FV. 300 near Frankfurt, 3 Fw. 200's 5 Berlin, and an unicentified aircraft with 4 angines all a single fin over Statigart. Lancasters of 5 Group Costcoy. @ 2 fighters, & Do. 217 in the Frence. are, and an unidentified twin-engined giver of themer biage.

ei fil

St

Me OA.

11.

LSTLTES

23.	lic.	cf	aire	raft missi	ng			28	(6.27)
٠,٠	"	"		dunaged	(flak (fighter (collided with Fritish bomber	40			
					(other causes	25))		

9 aircraft were lost over Berlin, 7 to all kenne 2 to fighters. 4 were lost to controlled fighters on the may be e, in the area between Bremen and the Ruhr, and 2 were shot down by all ket Browen and Hannever. 15 aircraft are thus accounted for. 9 benders were seen to go down on the outward route, 3 to fighters between the French coast and Cohlenz, and 5 to fighters and one to flak in the Frankfurt area; but some of these may have belonged to the Stattgart force, which was following the same route. No losses were observed over Stuttgart. Of the 35 benders missing from both att ohe, therefore, 14 were definitely destroyed by fighters, and 10 by flak. The other 9 must be attributed to "unknown causes."

24. 14 other airer for returning from Ferlin were wreeked beyond repair.
11 crashed on landing from this abundance over English, one callided with a tember returning from Stuttgart and one was the result of severe fighter damage.
4 others evershet and were badly damage.

STUTTO . Y

PLY OF ATT .CK -

- 25. Route Bonolty Hend 50°21'. 01°50'E 50°20'. 09°10'E 49°44'E. 09°14'E SIUTHLET 48°50'E. 09°00'E 50°20', 01°30'E Ecochy Hend.
- 26. Route-marking all blind markers and backers-up were to drep red T.I. (LB) at 3 miles/180 Coblenz on the way out; at lice spot fires at 15 miles/014 Strasbourg on the representation.
- 27. Method of Attack. Flim'-markers were to illuminate the aiming-point with yellow T.I., each also releasing one string of white flares; the first bundle 40 seconds before the T.I. and the rest at 10 second intervals thereafter. Visual markers, guided by the yellows, were to mark the exact aiming-wint with reds only if positive, If unable to identify visually, they were to hold their reds and aim greens at the estimated centre of all visible yellows, with a 2 second evershoot. Early backers-up were to aim greens at reds; later arrivals were to aim at the centre of greens, with a 2-second evershoot. (If the early once centre are reds, they were to aim at the centre of yellows, with a 2-second overshoot. (If the early once centre are reds, they were to bonb on H2S if possible; otherwise an visual includification or at the centre of yellows. Main force aircraft were to boab on reds or the centre of greens.

20 Tining Zero hour: 2050 Durati m of attack 2024-2038

Blind-markers. 9 Hals. and 2 Lancs. zero - 6
Visual-markers. 4 Hals. and 2 Lancs. to arrive at zero-4 and bomb as soon as possible.

Backers-up. 2 Hals. and 9 Lanes. from zero-2 to zero-7 (one a/c per

Supporters. 21 Hals. at zero - 6

Main Force. 63 H:ls. from zero to zero + 4 62 H:ls. from zero + 4 to zero + 8

...../Marker loads.

6. Marker loads Blind markers: 6:4 white flores - 2 yellow T.I.(1LB) + 1 red T.I.(1a 1 red spot fin. Visual markers: 1x4 white flores + 10 red T.I.(5LB) + 1 green T.I. 4 green T.I. (2LB) + 1 red T.I.(LB) + 1 red spot fin Backers-uc: WIND! was to be dropped at the rate of one bundle every; 30. " Toctics minutes to a point 20 miles from the target; one bundle every half minute . 20 miles of the target in both directions; and one bundle every minute for rest of the way home. 31. Alteration in method of attack. An alteration in the weather formula necessitated a change to emergency Wanganui technique 15 minutes before taken f The blind-markers were to arop yellow T.T. and release-point flores between a - 1 and zero + 8, holding their illuminating flores. Visual markers work :: join the blind markers and drop release-point flares blindly on H2S; they a on no account to drop aids. Bickers-up were to drop green T.I. between an and zuro + 7. SORTI 3 32. " alternative rea..... abortive sortius (tech. derect or annipulative (late..... 1) " mireraft missing...... WATER EXPERIENCE: Route:- As for Berlin route; but cloud tops runnined below 16,000'. Stuttgart:- 7-10/10ths. thin cloud, tops 10,00'. Bur visibility. lio moon. Wind at 13-20,000': 320 /60 m.n.h. NICHT PHOTOGRAPHIC STATISTICS No. of aircraft plotted in treget area (ground detail.....8)...... (fin-tracks.........18) (grount detail.....32)..... estimated to have bombed in target area (maximum...... minimum..... (probable

figur.

" " " within 3 miles of aiming-point.

(" " " reporting at back.....

NARRATIVE OF ATTACK

The attack opened at here - L with a salve of race, greens and skynaff flares dropped blindly and and at instructions by a visual marker; these fellowed by a blind marker. They were followed by a blind marker's yellows and flares; and at zero - 1 by a second salvo of rads which fell to E. of the town. Both rad salvo-a were well break up with greens. The marker force bombed mainly on the rads. Owing to the strong cross-wind in the target area, they approached on a unread curve of pursuit, coming in to the target

····· /from the

n the N.E., so that the attack developed chiefly around the second salvo of pr.T. is third salvo of reds fell 4 miles T. of the aiming-point as the attack ending, but attracted little attention.

PECCENTAL SLANCE

A concentration of bombs fell on the heavily emouflaged Deimler-Fenz A.G. ricrity 1) works at Unterturkhoin, which produce there-engines and components for ricles. It large, it medium and 21 small buildings were destroyed or damaged. The product of small industrial premises E. of the main station was devastated. A buildings of the railway require workshops were neverally hit, and the adolf for stadium and the Villa Berg were wartly devolutioned. Elsewhere, damage confined to isolated incidents, nearly all E.E. of the town centre. The lage and dirfield at Boblingen, it miles E.T. of Stategart, were covered for first time for some menths. The village centre he been destroyed, and that small factories in the outstants and a few minor buildings of the mirfield been destroyed or damaged.

MALCIVE TARGETS

5 miroraft bombed alternative targets, in the ereas of: Coblenz, Mannheim, Drenn, Hanan and Abbeville.

CLL EQUIPMENT

H23 8 blind-markers (including 2 of these mineralt originally detailed cisual nurkers) dropped release-point flores, and 6 of these, together with there, dropped yellow T.I. Contrary to instructions, 3 services of greens and a reds were also dropped. The reds were scattered, and were largely emsible for diverting the main force from the target. All 8 backers up another for diverting at reds; and they were joined by one of the Berlin ters-up, which had been durged by flak at printifurt and visited Stuttgart leaf, dropping greens on reds and greens at zero + 1. 18 of the 27 supporters taked the primary, 5 booking blinely as ordered and 13 visually or on T.I. It timing was poor, 7 of them booking after zero haur. 5 supporters were ted, including 3 which booked blintly; they were spread over a distance of these, from N.W. to S.E. of the main c meent attent. Altogether, 40 of the fairprofit reporting attack found their sets in order over the target; none lest.

T DE CES

Grand defences Cloud happened the ground defences. Few searchlights seen, can the guns fired a polar to bringe up to 00,000'. Some predicted seen fire was also encountered. The defences of the Mainz-Prenkfurt area very active, numerous search ights illustrating targets for accurate "seen". A large balloon was clourly seen at 21,000' over Trankfurt.

Pichters See paragraph 2.

LTIES

No. of aircraft missi	ing 5 (2.8)
" 17 " Cranged	(fl k

No losses were observed over Stuttg ri, and benbers seen to go down en any have been bound for Berlin. Details of identified losses have been in paragraph 22. One Halifax collided over England with a Lancaster ming from Berlin, and both were wrocked. 2 other aircraft were danged in repair, one by flak and one as the result of a landing accident. The res for flak and fighter dange represent an unusually small proportion of the large.

HLILTE

41. 31 Wellingtons and Stirlings laid 125 pines off the Frisians and the Dutch coast; 2/other aircraft returned early. 2 aircraft carried H2S, but neither used it over the target area. No aircraft was lost, but one flew in the ground on return and another crash-landed. Poth were heavily damaged, to former beyond repair. No other incidents were reported.

LEFLETS

42. 5 Wellingtons, manned by pupil crews, dispersed leaflets over M.Fram: All returned safely, although one was hit by flak.

MLM/CT. BC/s. 263,2/5/CRS4, 25th. January, 1944.

Z.RGET	GROUP	THE	S01.7375		CK Off	BOR.	TIVE)diss-	11593	n.m.en	SSSHEET/		THT HERE		1.00 T VOIT GE
				PROG.	aLT.	E.T.	CVER E.T.	ING	- PELK	PIGETER	TISC. DI AUTORY	CLUSES	ED	MOT ATTACA- ML	t.L. Inc.
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	8	Kusq.IV	3	3	-	-		-	-	-	**	-	-	-	1. 60.1 36.9
	M.F.	Lanc.III	32	28		-	2	2	1.2		-		-	*	leavy Brat
32		Lanc.X	.1	1	-	-	-	-				-	-	-	2.390m,0001b.
	1	Louis-I	27	21	35	1 1	1	3		1.75	-	116	1 3	1	11x4,0001b.
		Lanc.III	126	106	2	2	8	3	29	2.0	18+1/C+1	35+2B	2	9	N. 27x4,0001b.
13	5	Lano.II	20	14	2	-	2 !	2)		-	-		-	(9)
	5	Lunc-I	42	30	-	-	- 11	- 3	1,mi	Testa	2.7	25+1B	2	4	
A S	12.0	Lunc.III	119	104	4	-	5	6	2.5.+8	134.0	3543	63+1L	5	12	
	6	Lanc. II	39	.33	-	2	2	2	1	1.301.00	1000	-	2	3	
100	-	CHARLES CHICAGO				-				TILPHONE	1246.0				
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	2779	Lanc. III	15	14	- 1	1	- 1	-	14	1.0	- 1	-	1 1	2	8.1 5.6
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W. (2)	- 55	Hel.I.	74	66	4	-	4	100	3	1342.4			1 5	- de	a. 1x4,0001b.
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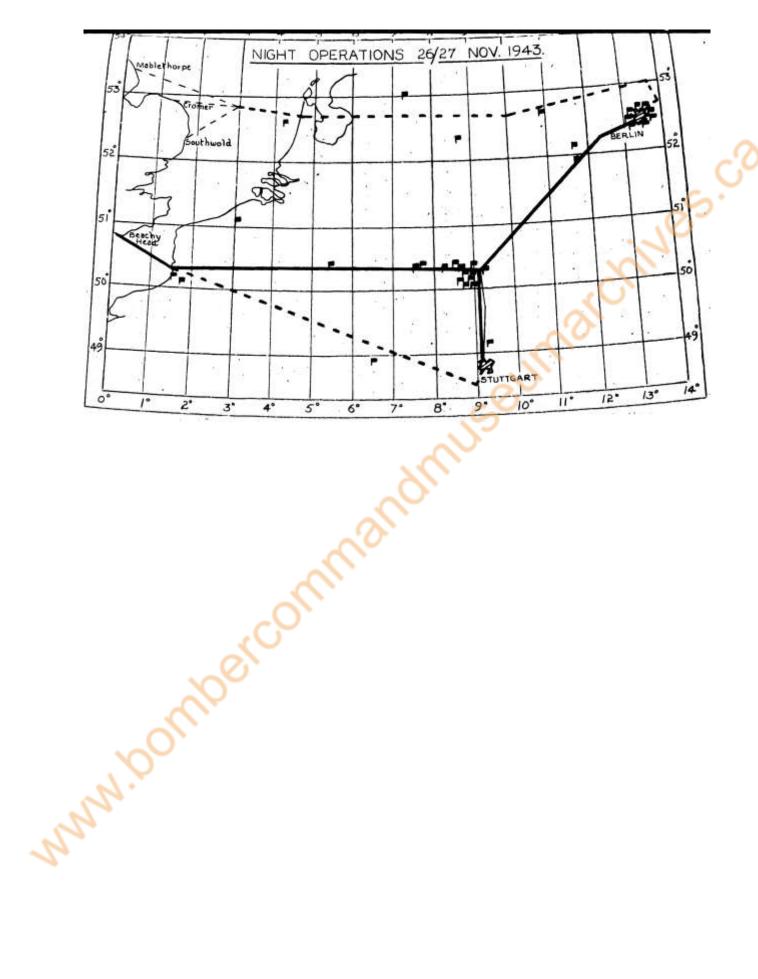
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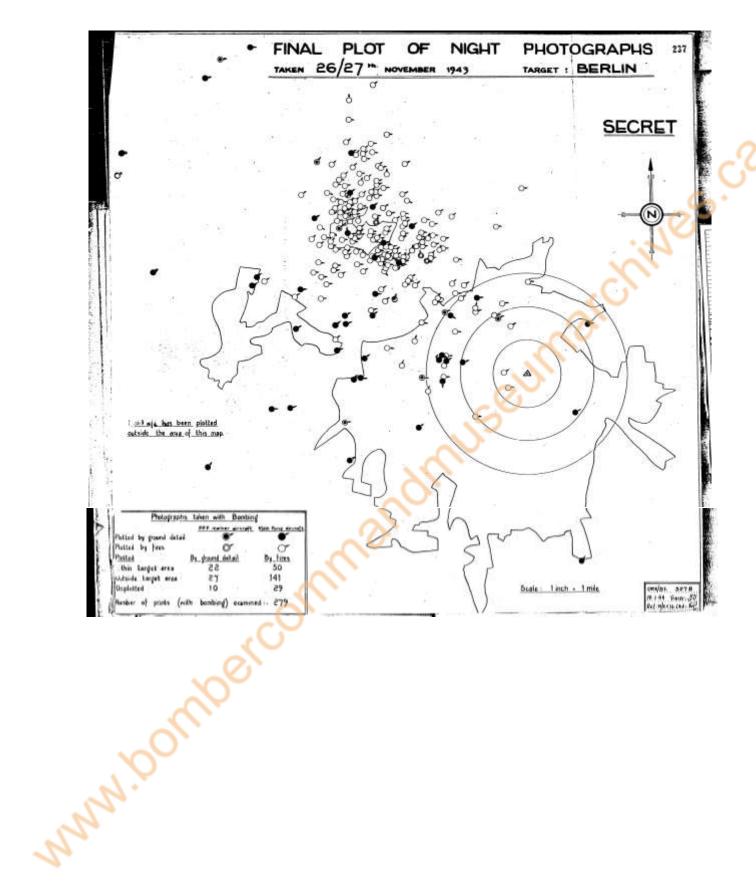
BERLIN: STOTELET: Junelaying: Leaflets: 26/27th. http://gsm. 1943.

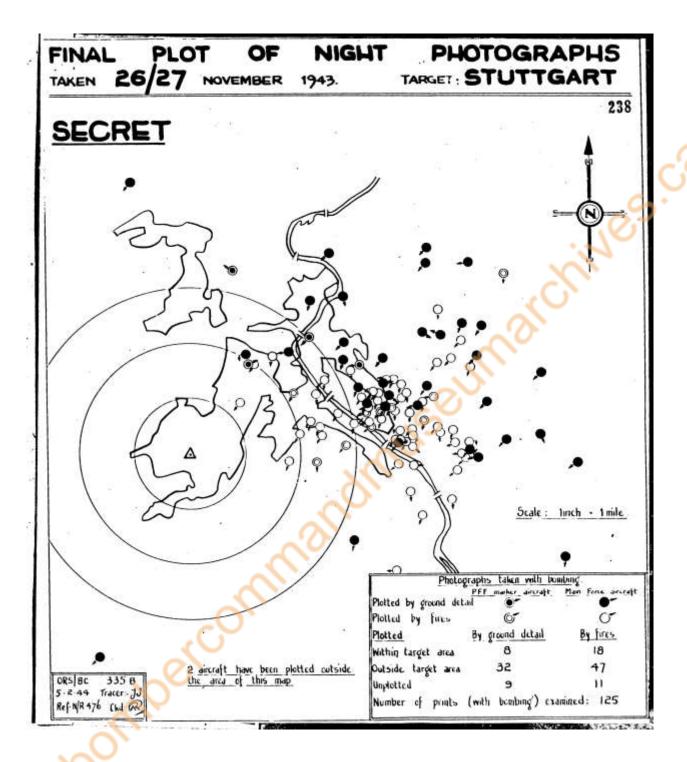
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BONELING TOTAL			628	539	16	8	32	33	18 +6 40 +5d	1B+1B 132+1	21+6.C +5	13E+5B	25	42	9
FPRELIT G E. TCS:	1	Well-X	1	1		-		(-				2 mines
7300%	1 1	Well.X	3	. 5	-	-	-	-	-	-		-		-	6 rines
PAGE 5	1	Well-X	10	9	-	-	- 1	-				-		-	18 mines
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LEFLITS AT :- ROUNT GLETTEN . OF TRALE P. P. R. P.

BCE/JT. O. E. S. J.







COPY NO. 6

BOMBER COMMEND REPORT OF MIGHT OFFIR TICHS

28/29th. NOVEMBR.

Essen: Duisburg: Minelaying: Lerflets:

LRY

Essen 10 CBCE Mosquitces (8 lk.I and 2 lf. II PENWIPER) were despatched a precision attack against Krupps' works at Essen. 9 bombed the primary a, but only J after controlled runs. Both lk.II air craft received excellent cking signals, but no release signals due to the failure of the releasing tion; 2 Mk.I aircraft received unsatisfactory signals, one had an unserviceable assister and a fourth, which was receiving good signals, was hit by flak and to release one minute early. The tenth aircraft returned early. None lest.

Duisburg One Mk.II PERTIPER Hosquite left to attack the Thyssen steelks at Duisburg, but its precision device failed and it bombed on L.R.

Minelaying 9 Stirlings and Wellingtons laid 38 mines off Brest, Cherbourg Le Havre; a tenth returned early. No casualites were sustained.

Leaflets 7 Wellingtons were sent to dispurse leaflets over towns in them France. 4 reached their targets, and one other dropped its bundles over seful area. The other 2 aircraft returned early. 8 Fortresses of U.S.B.C. cessfully operated over the Low Countries. All returned undamaged.

THER FORECAST

Bases:- A cold front, lying at 1600 from 53½N. 03E. - Felixstowe - 50N.

I. will move south-eastwards at about 40 n.p.h., clearing operational areas by

K. Bases should generally be fit, with well-broken cloud, many clearances

good visibility.

Germany: - Much very low cloud, main tops below 10,000', with layered lium cloud above. Much strute-cumulus be ond 11E. Ruhr at 2230: 10/10ths. lid from 25,000' to near surface, with more cloud above. Poor visibility.

France:- Cold front from Ungland will reach north coast of France tween 2100 and 2200; low cloud will lift and brak, although rain will persist, i visibility will be good. Breat peninsula: broken convection cloud at 2,000' th shoters. Cherbourg and Lo Havre: well broken convection cloud.

PRTIES			Bombing Mine- Leaf-
(a)	lio.	of	aircraft despatched7
(b)	11	11	" reaching primary arca 4
(0)		11	" " alternative area 0 0 1
(d)	**	M	abortive sorties (technical defect) 1 2
(e)			aircraft missing 0 0 0
(f)	in:	11	mines loid

ACLER EXPERIENCE

bases:- Fit all night.

Ruhr:- 9/10thm. alto-atritus, tops 20,000'. Traces of cirrus at 32,000'.

Prench ports:- Pair, with good visibility, and occasional showers.

...../APPLY DEFILICES.

ENEMY DEPENCES

8. 2 single-engined aircraft were fired on by a Stirling near Cherbourg, did not reply. No other fighters were seen or overheard. Mosquitoes set intense and accurately "predicted" unseen flak over Essen at 29-32,000'. Tother incidents were reported.

CASU.LTIES

9. Alll aircraft returned safely.
damage over Essen.

2 Mosquitoes received minor flat

MIN/JT. BC/S. 26342/5/ORS4, 22nd. January, 1944.

TARGET	GROUP	TYPE	DOM:1883		E ORTIFIC CK ON	3060	Tries.	MZSS-		D. AGE			Democra		PONTS TONTEST
#30000X			~	PRDS.	ALT.	OVER E. T.	NOT OVER E. T.	DAG	Flak	PEGIN ER	HISC. IN PLIGHT	OTHER CARSES	ATLCK-	NOT TELCH-	H.E.
ese .	2009	Mosq.IX Mosq.IX	3	7 2	-	-	î	-	1	_ :	-	-	-		P. 8.1
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BOUDING TOTAL	L		11	10	-	-	1	- '	2	-	2	-	-	-	
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TE HTAKE	3	Stir-III	3	3	· +	Sec. 8	+	100	-	- U	(-)) -	1	18 Mines
CHIERROTEC	3	Stir-III	2	2	-	-	-	-	-	-	-		-	-	12 Mines
MENTALYER TO	Tall-		10	9	-	-	1 .		-		-	-		1	38 Mines
N. PALICE	93	Well.Ic Well.III Well.X	3	1 2 1	1	=	1	-	-	=	-	:	=	-	
LEOF TELEVISION			7	4	1	-	2	*		-		-	-	-	
u.s. /_ B. C.		Yortress	8	8		-	-			2	Ş.	2 1		_}*	
TOTAL		1	28	23	,	-	4	_	2		-	-		,	

NOT INCLUDED IN TOTAL

Portresses to:BRTSIELS: GREAT: LIBES: . THERE: ROWHERLAN: GOSSELIS:

⁹³ Group to:- ROUBLES: LPREVELES: LILLE: TOUROUDES:

BOMBER COMMIND REPORT ON NIGHT OPER.TIONS

29/30th. NOVEMBER, 1943.

Dusseldorf: Cologne: Bochum: Leaflets:

THULKY

Disseldorf J Mk.II OBOE Mosquitoes (2 PERVIPER and one FOURTAIN-PEN)
were despatched on a precision raid against Etheinmetall Borsig L.G. in
usseldorf, while 6 Mosquitoes not equipped with precision devices carried out a
arassing raid on the town. One PENTIPER aircraft made an accurately controlled
un; the other 2 OBOE aircraft received poor signals and bounded the primary on
LR. all the herassing Mosquitoes attacked successfully on D.R. all returned
adamaged.

- . Cologne 4 Mosquitous, not equipped with precision devices, bombed the wilt-up area of Cologne; a fifth returned early. No casualties were sustained.
- Bochum 7 Mc. I OBOE Mosquitoes were detailed to attack the Vereinigte tahlwerke at Bochum. 5 made controlled runs, and the other 2 released on D.R., me receiving intermittent signals and the other experiencing a complete failure a one frequency. All returned safely.
- Leaflets . 9 Wellingtons and Whitleys succensfully dispersed leaflets wer Northern France. None was lost, although one was wrecked beyond repair by flak and another was langed in a taxying accident. d U.S. Fortresses expleted a similar operation.

KATHETT POPECLST

Hidnight frontal positions: - (1) minor cold front from N. to S. at 05°R.

Bases: - well broken convection cloud, with scattered showers and moderate risibility.

Germany: - heavy convection cloud over central and Z. North Sea, towering bove 25,000' and extending inland over N. Germany to the edge of high ground. Further inland, there will be good clearances in convection cloud, especially in the Middle Rhine; but noar the alps, cloud will again build up to great heights.

France: - heavy convection cloud, tops above 20,000', over W. coast. fell broken convection cloud in N.E. and E.

DRTIFS)		Ga//	<u> Ecobir</u>	ng	Leaf-	•
7 .	(a)	No.	of aircraft despatched	21			9
	(b)		" reporting attack on princry area	20			9
	(a)	18	" abortive sorties (technical defect)	1			0
l	(d)		" aircraft rissing				

STHER ECPRIENCED

Bases: - Fit all night, apart from local showers.

Ruhr:- Variable encu.ts of drifting cloue; ever 3c 5/10ths., but clear it times.

ENERTY DEFENCES

8. Searchlights were active in the Ruhr, 200 being exposed at Dusselds Moderate but accurate "seen" fire was encountered from the heavy guns. No fighters were seen. Leaflet aircraft met opposition from known defended;

CASUALTIES

9. No aircraft was lost; but one Whitley was damaged beyond repair by heavy flak, and another met with a taxying accident. No casualties were sustained.

MLH/JT. BC/S. 26342/5/ORS4, 22nd. Junuary, 1944.

TO THE ORIGING T.ROST ckott2 SCHTTES MISS-PLX PICKYER | MSC. INC R.R. Inc. OVER B. T. Mosq. IX Mosq. IV P. 7.6 9 9 DUISILDOOP TOTAL P. 3.6 COLOGICE Monq. IV 5 BOCHU.; Moseq + IV 7 BONBER TOTAL 9

Portresses to:- HEEDS: LE MANS: OMERATS: CHARTER: PARIS: ACROS: HOURN:

NOT INCLUDED IN TOTAL

⁹³ Group to:- PARIS: MELON: POUNTAINELE U: 1007 LGIS: VERGAILLES:

COPY NO. 6

BOMBLER COLMAND REPORT ON NIGHT OPERATIONS

30th NOVE DER 1st. DECEMBER, 1343.

Essen: Minelaving: Leaflets:

PETARY

Essen 4 Mr. I OBOM hosquitoes were detailed on a precision test against rupps' works at Essen. 2 made controlled runs, and 2 bombed on D.R. because the failure of their devices. All returned safely.

. Minelaying 42 Stirlings and Wellingtons laid 115 mines off the French clantic ports; 2 other aircraft returned early. None was lost.

Leaflets 7 Wellingtons, accompnaied by 7 U.S. Fortresses, dispersed offets over France and N.W. Germany without loss.

EATHER PORECUST

. Boses:- Generally fit all night, with variable amounts of cumulus and imto-cumulus, scattered showers and moderate visibility.

Germany: Heavy convection cloud to above 20,000' over North Sea and with German plain. Much cumulo-nimbus cloud in central and S. Germany, with a tracelearances. Munich might have good breaks late in the night, but these are alikely.

France:- Good clearances in convection cloud. Scattered showers over W.

u.c.us	Bombing Mine Loaf-
(c) * * abortive sorties (tech.defee	ot)0

LIER EXPERIENCED

Bases:- Fit all night. Cloud dispersed quickly after dusk.

1. Escen:- 7-3/10ths. layer cloud, occasionally breaking to 5/10ths. Tops

Little or no cloud elsewhere. Good visibility. No moon.

COLY DESCRICES

Nothing of interest was reported.

SULLTIES

All our aircraft returned safely. 2 Mosquitoes received minor damage from

0/8.26342/5/0RS4, 2nd. January, 1944.

ENN: Minelaying: Leaflets: 30th NOVEREM/1st. DECK DIR, 1943.

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