NIGHT RAID REPORT NO. 342

5.C

COPY NO. 6

BONBER CONSIAND REPORT ON MIGHT OFFILITICHE, 1/2nd. JULE, 1943.

MULLATC

SUGLERY

1. 30 aircraft, out of a force of 33, laid 95 mines off the Frisians, the Dutch cost, and the French Atlantic ports. No losses were sustained.

Heteorological Forecast

2. Midnight frontal positions:- (1) occlusion from 59°N. 05°N. to 55°N. 06°E. to 50°N. 10°E. (2) occlusion from 56°P. 06°N. to 55°N. 0° to 52°N. 03°E.

Bases:- ...long each front there will be a belt of rain and cloud extending to great heights, with high icing index above 4,000' in front (2). Operational Groups should remain fit at night, with variable cloud, base 2,000' in N., and a risk of some cloud at 1,000' in S. Visibility 4 miles or more. Showers, especially in S.

Germany:- Front (2) will be active over 3. North Sea, with thundery rain and local thunderstorms. Over N. Germany E. of front (1), there will be broken layer cloud. In S. Germany, layer cloud will be well broken, with good visibility. W. of front (1) residual thundery cloud will prevail in broken layers.

W. France:- Brest to La Pallice: up to 0200, broken cumulus and stratoumulus, base mainly above 1,000' with a risk of showers. Increasing medium cloud between 12,000' and 15,000'. Visibility moderate. after 0200, low cloud will increase and fall to 1,000', with rain spreading from W.

Dutch coast and Frisians:- Instabaility front is expected to clear the Dutch coast by midnight and the Frisians by 0300. Behind this front, 6-9/10ths cloud, base 1,000-1,500', freezing level 6,000'.

icrties

lather Experienced

Bases:- Very wariable cloud. Large olearances between showers. Base cally below 1,000'. Good visibility.

Prisians:- Very variable aloud. Generally cumulus and strato-ourulus, 6-8/10ths., base 2,000', with slight local showers. Some heavier showers en Fute with cloud base 1,500' or bolew. Good visibility. Wind at 2,000': 20°/30-40m.p.h.

N.W. France: - 5-9/10ths curvelus, base 1,000 (but locally 700'). Showers. od visibility. Wind at 2,000'. 260°/40 n.p.h.

No moon.

..../Eneny Defences.

Enery Defences

5. (a) Flak and Searchlights

51

140

1.0

Creve laying mines in the Frisians were engaged by several flak ships off Texel and Terschelling. The only land activity was at Texel, where light flak and one searchlight were reported. One aircraft was damaged by a flak ship off Terschelling.

:..

No defences were reported in action against our bombers in Western Fran

47

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N 3

6 - T

. •

6. (b) <u>Fighters</u>

Encoy wireless traffic revealed the presence of one controlled night fighter patrol in the Lecuwarden area, but no encounters with encoy aircraft were reported.

1

1

Casualties

13	94 14	5 82	· · ·		(b) i (c) i	lighter.	ay ac	tion.	.!!1) .!!1)	•••••	•••••• •	• 1 •	
••••		•	đe d			25			20 (3)	200 	68) ³⁴		
c t - 1				10 NO.22	1	\sim				<u>t</u>	100		
·			٠.		3		÷1	34		-950 22			
	· · ·	•	- ¹⁹⁴⁵ - 5	~			•	18 M		5) -			
MIN/V	F/JT.	1. 1.	Linese	0		5		12		<u>.</u> *			
14th.	26342, ugu	/1/0 st,	1943.	<u>)</u>		2			3	9 H	Ve S	$\frac{\partial \mathcal{L}}{\partial t} = \frac{1}{2}$	
					183	1	•			22			

TARGET	GBOUP	TYPE	SORTERS		PORTING CK ON	ABORTIVE :	50×7185	HISSING	рж	. <u></u> 2		DITERC	EPTICKS	RISULTS
			PRDEARY REA	LTERN.TIVE	OVZR ENDOT TERRITORS	NOT CVER ENHICY TERRITORY		Plank	FIGHIER	NOT ENERY ACTION	-1275X- BD	MOT ATTACK- ED		
FRISLANS	3	Stir.I	5	5		-	-	-	-	-	-	-	-	20 mines
		Stir-III	5	5	-	-	-	-	1	-	-	-	-	27 intres
BREST	4	Well.X	5	5	-	-	-	-		-	-	10 1	-	10 mines
ST. N.ZAIRE	4	Well+X	4	3	-		1	-	-			-	-	6 mines
LORIET	4	Well.X	5	4	-	-	1 .	-	-	-			+	8 mines
TOTA	6	Fell-X	3	2	-	-	1	-	-	-	-	-	-	4 nines
S. TECEL	6	Well.X	6	6		-	-	-	-	-		-	-	12 mines
TOTAL			33	30	-	-	3	-	- 1	-	-	-	-	95 mines

NIGHT RAID REPORT NO. 343

COPY NO.

BOMBER CONDIAND REFORT ON NIGHT OPER. TIONS, 2/3rd. JUNE, 1943.

MINEL .YI'G

SUMPLARY

1. 32 aircraft, out of a force of 35, laid 80 mines off the French Atlantic coast. All returned safely, one claiming the destruction of an Me.110.

Leteorological Forecast

2. Midnight frontal positions: - occlusion from Orkney to E. of Zuyder Zee to $46^{\circ}N$. $022^{\circ}E$.

Bases:- Fit at dusk, and for return after midnight. Little cloud, base above 2,000'. Visibility moderate to good.

Germany:- A centre of low pressure, positioned at 53°N. 01°E. by nidnight and moving **E.N.**E., with a trough from the centre southwards, will result in great thunderstorm activity over the S. North Sea, with cloud to 30,000'. In N. Germany there will be residual thundery cloud in broken layers. In S. Germany, broken layer cloud.

V. France:- 4-8/10ths cumulus and strato-cumulus, base 2,000', with patches at 1,500' in scattered showers. Strato-cumulus may increase southwards. Good visibility.

Sorties

3.	(a)	No.	of	aircraft	despatched	
	(b)				reporting mines laid in printery area	
					sortics (technical defcot	
	(d) (e)		. u m	aircraft nines la	nid	

meather Experiences

4. Bases: - Showers all night, with cloud base falling at times below 1,000'. Visibility otherwise good.

Route: - Much. convection cloud over Channel, tops 8-12,000' with frequent showers. Wind to 49°N. at 2,000': 300°/25 n.p.h.

showers, 4-6/10ths in S. with only scattered showers. Cloud base generally 500'. Good visibility. No moon. Wind at 2,000', S. of 49°N.: 270°/25mph.

Energy Defences

5. No flak and few searchlights were reported. In the only encounter with an energy aircraft, the crew of a Stirling claimed the destruction of an Me.110, which dived in flames and crashed near the nouth of the Gironde; the Stirling Was damaged but returned safely. No other incidents were reported, and all other aircraft returned without casualties or damage.

LLM/JT. BC/S. 26342/1/ORS. 14th. August, 1943.

(2nu/3rd+ June 1943+) MING YI! ...

				0	ana yika.	1000	Sent June	1943.1		4.83		THEFT	1001	RESILTS
TARGET	GROUP	TYPE	SORTIES	PRDLAY	HTIC KON LITENGTIVE		NOT OVER	IUSSDA	- 14	VGE FIGHTER	ETTY	INTERCI	NOT	
BREST	1	Well-X	8	7	-	-	1 1		-		ACTION -	-	- 10	14 mines 3 mines
GIRONDE R.	3	Stir.I Stir.III Stir.I	4	1		1			=		1		-	12 nines
ST. K.ZAIRE	4	Stir.III Well.X	6	- 5			1 .		=	140			=	13 mines 10 mines 14 mines
TOTAL	4	-	35	32			3		-	1.,0	-	1	-	80 mines
<u> </u> +				-		10,	10000		1			-		5.
www.oc		, oe		250	Ima		Suur		2			× C		14 mines 80 mines

NIGHT RAID REPORT HO. 344

COPY NO. 6

BOHBER COLMAND REPORT ON NIGHT OPERATIONS, 3/4th JUNE, 1943.

HINKLAYING: Leaflets

SUPPEARY

elaying

30 aircraft, out of a force of 39, laid 77 mines off the French Atlantic st. All returned undamaged.

flets

16 aircraft dispersed leaflets over Paris, Lorient and St. Mazaire. Mone re lost, but one ditched in the Channel on ceturn. All but one of the crew re rescued.

corological Forecast

Bases:- Mainly fit all night. Broken cloud, base 1,500-2,000', tops y locally to 15,000'. Showers on east cast irod E. Yorks to Norfolk, with ad base falling to 1,000'. Visibility good.

Germany:- Thundery cloud in N.W. all night, tops to 20,000' and above. b layer cloud at various levels. Good visibility. S. Germany: broken layer ud. Wind at 20,000': 310º/50-(0 m.p.).

T. France: - 5/10ths or more cumulus and strato-cumulus in two layers reen 1,500 and 8,000'. Good visibility.

ties

Minelaying.Leaflets

(a) No. (b) " (c) "	of aircraft despatched " " reaching primary area		16 16
	technical or (caripulative (defects	9	0
(d) " (e) "	flak & fighter1) aircraft missing.		0

her Experienced

Bases: - Mainly fit all night.

W. France: - 8/10ths. cloud at Brest from 900-3,000'. Visibility very Elsewhere, little cloud and good visibility.

Paris:- 8-10/10ths. cloud, tops 12,000'. Good visibility.

llo moon.

...../Enemy Defences.

2.

Energy Defences

5. (a) Flak and Searchlights

Noderate but accurate flak was reported at several points on the west coast of France, but few scarchlights were seen. Slight flak with many scarchlights was encountered from Cherbourg. One aircraft sustained minor damage in the Puris area.

6. (b) Fighters

(2)

Only two encounters were reported, at Loudeze and St. Bricue on the outward flight. Our aircraft sustained no damage.

Casualties

7.	No.	of	aircraft	nissing.			.Nil	È
		n	n	damaged	(.)	flak1)		
				93	2	not energy action 1)	• 2	

One aircraft ditched off St. Catharine's Point on return, owing to engine trouble. All but one of the crew were pescued.

HIM/JT. 5.1/S. 26342/1/ORS. 14th. August, 1943.

TARGET	GROUP	TYPE	SORTIES		PORTING CK ON	.BORTIV	B SORIES	MICOL		wings		DITION	TIONS	RESULT'S
					ALTERNATIVE	OVER ENDORY TERRITORY	NOT OVER ENERY TERPITORY		PLAK	FIGHTER	NOT HZORIY ACTION	ATTACKED	NOT TEACKED	
MINELAYING	Y	Well.X	8	6		-	2	-			-	1	-	12 mines
LA PALLICE	3	Stir.I Stir.III	2	2		1	-	1	-	Ξ	-	-	:	8 mines 12 mines
TRONLE	3	Stir.I Stir.III	1 9	1 6	2	-	3		-	1	-	1	-	3 mines 18 mines
ST. NAZALIKE	4	Vell-X	8	8			-	-	-	-		H 505	-	16 mines
BRIEST	6	Well-X	8	4	-	-	4	-	* -	-	-	2 - H-M	-	6 mines
MINELYING T	LIO		39	30	-	-	9	-	-	-	-	1	1.1	77 mines
LE-FLETS	92	Well.III	1	1	-	-	-	-	- 1	- 1	- 1	-		
LORIEV7	33	Well.X	2	2	-	- 1	-	-	-	-	-		-	
ST. MAZIERE	92	Well-III	4			-	-	-	-	- 1	-	1	-	
BR255T	93	Well-III Well-X	1	1	-	-	:	2	-		-	. :	1	
PARIS	93	Well.II	5	1 5	:	:	2	-	1	-			÷	
		Well.Ic.		1-+		- +	-	-	-		18	-	-	
LR.FLET TOT	-		16	16	-		· -	-	1	-	18	1	-	
TOTAL			55	16	1.1	-	9	-		-	18	2		

274

es.0

COPY NO. 16

BOIDER CONDIND REPORT ON IS SHT OPERATIONS, 5/6th JURE, 1943.

MINSLAYING: LEAVLETS

SUPPLARY

laying

12 aircraft laid 66 mines off the Frisians without loss.

lets

5 aircraft were datailed to drop leafly to over Vichy. One returned early ugh icing, and one, experiencing technical trouble, jettisoned its bundles in area of Orleans. The remaining 3 accomplished their task. All returned by.

erological Porecast

Hidnight frontal positions:- (1) occlusion from S.W. Ireland to S.W. tland to Peterhead to $62^{\circ}N$. $05^{\circ}E$. to W. Sweden to Copenhagen to $53\frac{1}{2}^{\circ}N$. $11^{\circ}E$., ming warm southwards and cold to $48^{\circ}N$. $05^{\circ}E$. to $46\frac{1}{2}^{\circ}N$. $02^{\circ}N$. (2) minor cold a 55^{\circ}N. $06^{\circ}E$. to Ostend to Havre.

Bases: - Fit all night, with cloud decreasing, base not below 1,500'.

Germany :- Much cloud to great heights in frontal lelt, with rain.

Frisians: - Cloud base mainly 2,000', possibly very low patches.

W. France:- Much cloud at 1,000 or below S. of St. Mazaire, breaking and ting (but not above 1,500') further P. Little cloud in extreme S.

ties

Finelaying Leaflets

(a)	No.	cf	aircraft despatched	12	 5
(b)	n		" reaching primary area	12	 3
(0)			" < "alternative area	0	 1
(a)			abortive sortie: (icing)	0	 1
(e)			aircraft missing	0	 Ó
(f)	n n n n n	π	nines laid	66	1921

ther Experienced

Bases: - Broken cloud, generally above 3,000'. Scattered showers. Fog or patchesin N.E. England towards dawn.

Prisians -- Well broken low cloud. Hodcrate to good visibility. No moon.

Ty Defences

No flak was encountered, and no fighters apart from one which followed a flet sortie for 20 minutes in the Vichy area.

ulties

None.

S. 26342/1/ORS.

LUGET HERELATE FAISLAS MICELATE TO LEAFER TOTAL TO T.L	91	THE Lenc. II Stir. I Stir. III Voll.X Well. III	EORTIES	177 PRIMARY ,.R2. 1 6 5 12 1 2 3 15	12201611944 LOS 081 				Plak			-TELCK- 120		66 nines 66 nines 66 nines 66 nines
FAISLING MERLITHE TO LEITETS VICHY LEITET TOT.L YOT.L	91 91	Stir.I Stir.III Well.X Well.III	5 12 3 2 5 17	1 6 5 12 1 2 3 1 5		-		: : : :	-					32 mines 28 mines 66 minus
LEJLETS VICHY LEJLET TOP.L TOT.L	91	Joll.X Well.III	12 3 2 5 17	12 1 2 3 15				: : : :		-	2	-	1	66 minus
LELFLET TOP.L		Well-III	2	2						-				66 miner
TOT.L				15	1	-		بح	0	Ś	0	يك		66 miner
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NIGHT R.ID LEFORT NO. 346

COPY NO. 16

BONDER CONCLAD REPORT ON NIGHT OPER TIONS, 9/10th JUNE, 1943.

LR FINTS

SUGL. Y

1. 6 aircraft, out of a force of 8, dispersed leaflets over Lille, Tours, Brest and Lorient. All returned safely, one crash-landing after being damaged by a fighter.

Meteorological Forecast

2. Hidnight frontal positions: - occlusion from S. Norway to Lubr to Stuttgart.

Bases:- Fit at dusk, except coastal localities in 4 Group. By 0400, all Groups except 8 will require diversion for most of their aircraft, with visibility below 1,500 yards or low stratus.

Germany:- V. and M.W.: broken layers of cleud, 11 probably below 15,000'. Ruhr:- rather more than half cov r of strate-cumulus, base 2,000' tops 6,000', with very little medium cloud. Visibility very poor, with thick haze.

France: - Little cloud, apart from strato-curulus in N. W.

Sorties

3.	(a) 1	No.	of	aircraft fespatched.	8
	(h)	11	11	I monutating primary once	6
	(c)	n		abortive sorties (technisal defect)	2
	(a)		11	aircraft missing.	0

Weather Experienced

4. Brest - St. Nazdire: 10/10ths. stratus, 12-17,000'.

Lille: 8/10ths stratus to 10,000'.

Tours: clear, no cloud.

Nearly half noon.

Eneny Defences

MLH/JT. BC/S. 26342/1/ORS. 14th. jugust, 1943.

			2000.000	v - se - s	en sa su su su su s	LZ_PLATS.		UNR, 1043.	9					
T.RGET	GROUP	712%	SORTIES		CK ON	BOMTIVE	SONTINS	MISSING		PICHIER	NO ²	DVIERCE		RESULTS
				PRIMAT ARE.	AREA	ENER	30/3212	1 T			YN MY	ED	.TT.CKE	
HOEST TOORS	91 51	Yell.III Well.III	1	1		-		-	-		-	-		
ST. N. Ja DRE	<u>91</u> 91	Soll.III	1			1	-		-	140	-	1		-
STILE	92	Vell-III	4	- 2					-					-
TOTLL			8	b		- 4	1	<u> </u>	-	1nG	<u> </u>		-	
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COPY NO. 16

BORDER CORCLIND REPORT ON NIGHT OPER. TIONS, 10/11th JUNE, 1943.

LRIF STS

SULLINKY

1. 4 aircraft, out of a force of 6, dispersed leaflets in the areas of Lorient and Nantes. One aircraft did not return.

Meteorological Forecast

2. Midnight frontal positions:- (1) Var. from Orkney to the Wash (2) cold from Parces to St. .bbs Head to Portland Bill to N.F. France.

Bases:- Thunderstorns, with cloud to over 20,000', breaking and lifting behind the cold front. Low str. us spreading inlend from North Sea. Fog in clear areas. Training Groups: Marying amounts of low and medium cloud, residual from thundery showers, base 1,200-1,500'; visibility 1-2 miles until 0,300-04,00.

Germany:- Much low stratus or fog over North Sea. Residual thundery cloud in N.W. Germany with isolated thunderstorus persisting. Duch layer cloud in Central und S. Gormeny.

France:- Much medium cloud in N.W. with poor visibility. Orleans: varying amounts of medium cloud, moderate visibility, slight risk of thunacry showers.

Sorties

3.	(?)	No.	of	circraft despatched	
	(b)	n	17	" reaching princry area 4	
			13	abortive sorties (technical defect) 1	
	(d)			miroraft missing 1	

Weather Experienced

4. Nantes: - Huch ground haze.

Lorient:- 8/10ths, strato-cumulus, tops 11,000'. No moon.

Enemy Defences

5. No opposition was encountered from Adound defences. One Me.109 was observed over Mantes but no combat developed.

Casualties

6. One Whitley failed to retu n from Hen ts. There is no evidence to suggest the cause or place of loss.

Torget	Gp.	Турс	Scrtics	./C reaching prim. arca.	Abortive Sorties (103T)		Domoge	Inter- ceptions
N.NTES	91	Whit.V	5	3	1	1	-	-
LORIENT	91	Well.III	1	1	-	-		-
TOTAL			6	4	1	1	-	-

DC/S. 26342/1/ORS. 15th. August, 1943.

NIGHT RAID REPORT NO. 348

COPY NO. 16

BONDER CONMAND REPORT OF MIGHT OPERATIONS, 11/12th JUNE 1943.

DUSSELDOFF: MUNSTER: Duisburg: Colgone: Leaflets

SUNALARY

· ...?

DUSSELDORF

1. A very successful raid on Lusseldorf was carried out by a large force of 770 heavy and mcdium bombers led by 13 Mosquitoes. Despite the lew serviceability of the Oboe Mosquitoes, only 6 of which attacked, 80% of the 655 aircraft reporting attack are estimated to have be bed within 3 miles of the aiming point. This high degree of concentration was confirmed by the devastation shown on reconnaissance photographs. Two-thirds of the central city area was wholly destroyed, and industrial premises damaged included the heavy machine-tool manufacturers Schicas-Defrices A.C., and Rheimetall Bersig A.C. (heavy armaments).

38 aircraft were missing, the losses being almost eugally attributable to flak and fighters.

HURSTER

2. 72 heavy aircraft of 8 Group made a concentrated attack on Munster, which was completed in less than 10 minutes. The target was marked and illuminated by Y-type aircraft, many of which also attacked with the main force. Although only 60 aircraft bombed the target, much damage was caused, especially to railway property.

5 aircraft, 4 of which were Y-type, failed to return.

Duisburg and Cologne

3. 5 Mosquitoes were despitched by 8 Group, 3 to Duisburg and 2 to Cologne. 2 aircraft attacked each target and the fifth returned carly. No damage was sustained.

Leaflets

1

4. 23 aircraft of Training Groups set out to drop leaflets on Orleans, Nantes, Caen and Le Mans. 20 corties were completed, and all the aircraft returned safely.

5. Ratimated midnight position of front: occluded from 60°N 2°E - Yorkshire - Tangmere - Nantes.

Home Bases:- Thunderstorms along the occluded front. Some bases may have thundery rain at take-off especially in Lincolnshire, but not more than 12 bases will be affected at any time. 3 and 8 Groups will be affected by a front running N-S, giving 10/10ths cloud between 2,000 and 15,000 ft. mainly layers with local breaks. Other Groups, broken low cloud, with 10/10ths medium cloud at 10,000-13,000ft. For return, 7-10/10ths cloud at 2,000-3,000 ft. in the S.; 5-8/10ths at 1,500-2,000 ft.; with possibility of rain after 0400 hours, in N. Poor visibility in 6 Group and locally in 4 Group. Fog will follow thundery rain, especially in 5 Group. ····

Enden areas likely to be least affected.

France: Looki thunderstorms.

Route and target: Cloud breaking beyond $1^{\circ}-2^{\circ}E$; only patchy cloud over Eastern North Sea to the encay coast. Over the continent, large patches of residual curulo-niabus at all heights to 20,000 ft, but good chance of little over the target. Visibility hazy over Ruhr. On return, Pront will be met at 2 -3 E. with cult very few tops above 12,000 ft., base 2-3,000 ft. High ioing index above freezing level at 10,000 ft.

Winds:	_750 nb.	500 mb.	" 300 mb.
Bases in N.	310°/40 n.p.h.	230°/45 tp.h.) 270%/50 n.p.
Bases in S.	230°/25-30 rp.h.	240°/30 tp.h.	
2°E - 5°E.	Light variable	270 /10 n.p.h.	€ 310°/45 m.p.
Ruhr	010°/10-15 m.p.h.	270 /10 n.p.h.	

DUSSLEDORF

Plan of Attack

6.

Zero hour: 0120 - Period of attack: 0116-0219 hours

Briefed Route: $51^{\circ}45'$ N $03^{\circ}50'$ E - $50^{\circ}55'$ N $06^{\circ}30'$ E - Dusscldorf - turn wide left - $51^{\circ}17'$ N 06'30' E - Noorbrijk.

En route to the target, yellow varning T.I's wore to be dropped by Obce Mosquitoes at 53 40'N 06 55'E: this marking was to be maintained by the Lancaster backers-up, aiming yellow T.I's at existing yellows. At the target 13 Obce Mosquitoes, at five-minute intervals throughout the attack, were eas to drop two red T.I's (one long turning) in salve on the aiming point and also release-point flarces (red with green stars and white) igniting at 14,000'. The backers-up (34 aircraft) were to aim green T.I's to overshort by three seconds the red T.I's if possible, but otherwise the centre of all green visible. If the ground markers could not be seen owing to cloud conditions, the backers-up were to become part of the main force and bring their T.I's back. Half the T.I markers were to burst at 3,000' and half at 6,000' and, after 0130 hours, cortain markers were to burst at 10,000'.

The main force aircraft vere instructed to ain at red T.I's if possible, but otherwise at the contre of greens. The release point flares were to be used, if necessary, on a heading of 042°M. and 165 n.p.h. I.a. The main fort with bombsight set for true height, airspeed and zoro wind. was divided into 12 waves of about 60 aircraft each and all phases of the attack both incendiary and H.E. loads were to be carried. The first (0120-0124 hours, Lancasters) and fifth(0140-0144 hours, Wellingtons and Halifaxes) were to consist of specially selected crews and the second (Lan 0125-0129 hours) and sixth (Stirlings, 0145-0149 hours) of the next best orews. Aircraft of 1 Group were to neet at Sheringhan (Lancasters at 17-18,000' and Wellingtons at 12,000') and were to climb in order to cross the energy coast as high as possible. Lancasters were to bonb from over 20,000' and Wollingtons from over 16,000': fter bonbing, all airoraft wer to leave the target area as quickly as possible and climb to a maximum heit the return journey.

The Gee Eastern Chain was to be available on two frequencies between and 0220 hours.

Crews were warned that other aircraft of the P.F.F. would be attack

·····/Tining

		10. X
Hining		and the second
7. Mosquitoes	B.okers-Up	Min Porce
G116 & 0120 hours		0420 21 Seat 11 (Langasters)
- 1	intervals	0120-24 Sect.1((Lancasters)
- 0124		
0125		0125-29 Sect. 2 (Lancasters)
- 0120-2	27 2 a/c at 1 min. intervals	
- 0129	1 aircraft	
0130		0130-34 Sect. 3 (Lancasters & Halifaxes)
- 0131-	32 2 a/o at 1 min.	-
and the second se	intervals	S S S S S S S S S S S S S S S S S S S
0235	1 aircraft	0135-39 Sect. 4 (Halifaxes &
10 Rol 10 K-100363000	570 	Wellingtons)
- 0136-		
0139	intervals 1 sircraft	
0140	-	0140-44 Sect. 5 (Halifaxes &
	10 0 - 12 - 1 - 1 - 1-	Wellingtons)
	42 2 a/o at 1 min. intervals	\sim
0144	1 aircraft	\sim -
0145		0145-49 Sect. 6 (Stirlings)
- 0146-	47 2 a/c at 1 min.	
	intervals	
0150 0149	1 aircraft	0150-54 Soct. 7 (Stirs. & Wells)
- 0151-	52 2 a/o at 1 min.	
3 B.	intervals	10.5 10 New York Part and the second
0155 0154	1 aircraft	0155-59 Sect. 8 (Wellingtons)
- 0156-		······································
	intervals	
0159	1 aircraft	0200-04 Sect. 9. (Halifaxes)
- 0201-		
- 0204	intervals 1 aircraft	2 4 31 /10
0205		0205-09 Sect. 10. (Lancs.& Hals)
0206-	07 2 h/c at 1 min.	
0209	intervals 1 aircraft	-
0210	· · · · ·	0210-04 Sect. 11 (Lancasters)
.0211-	-12 2 a/c at 1 min.	
0813	intervals 1 aircraft	-
0215 0215	1 aircraft	0215-19 Soct. 12 (Lincasters)
Bonb Loads - P.F.F.		10 10 10 10 10 10 10 10 10 10 10 10 10 1
8. Mosquitoes 1 T.T. millor	(1) . 2	(10) . 2
Halifares	4 T.I. Fred (1 LB) + 2 flares red/green stars + white (2 LB) + 4 x 1000 lb. G.P. + 4 x 500 lb
Langestone 4 m -		N.C.
T.I. yellow	(LB) + 4 T.I. green	(2 LB) + 1 x 4000 lb. H.C. + 4 x 1000 l + 1 x 500 lb. M.C.
- 1 · · · · · · · · · · · · · · · · · ·		

Sorties

9.	No. of	airoraft despatched
		altornative area 5(0.6;)
		abortive sorties (technical and manipulative
		defeots
		(weather
		(illness of orew
į.		(late take-off 1) (unknown (orashed) 1)
		airoraft missin

Weather Experienced

10. Home bases: - Rain and thunderstorts in Lincolnshire during take-off. By return most bases fit, apart from local light rain in E.Anglia.

Route: Over North Sea, frontal conditions were encountered, with multi-layer cloud, cumulo-nimbus, tops to 24,000 ft, an anvils to 28,000 ft. Noderate clear ice formed locally in clcud, with some static. One report of lanes in clouds. Frontal conditions broke over Dutch coast. Remainder of route, only small amounts of cloud.

Target: 2-4/10ths cloud, tops 6-12,000 ft., with shall patches of cloud above. Visibility moderate to good, with slight ground haze. Surface wind, light southerly or calm. Wind at 20,000 ft., very variable between 270° and 010°, 15 m.p.h. or less.

Energy airfields:- Many fit during operational period, with only shall amounts of cloud and moderate visibility.

Moon above the horizon during the operations, 50% of full.

Night Photographic Statistics

11.	No. of	photographs	examined	
			showing	(plotted within 3 niles46)
		gro	und Cotail	(" outside 3 miles28)85 (umplotted11)
104	12 10	. 6	showing	(plotted within 3 miles.411)
		fir	e-tracks	(" cutsice 3 niles. 22)469
				(unplotted 36)
	\sim	aircraft re	porting att	ack
•		" 68	timated fro	m the photographic evidence,
1		to	have bonbe	d within 3 miles of the
\sim				
\sim			20	

Narrative of Attack

12. The target was accurately ground-marked by 6 Oboe Mosquitoes with red The failure of the remaining 7 aircraft resulted in gaps in the parking T.I's. notably from 0123 to 0129, after the first salvo of red T.I's had extinguished The backers-up wore late, and none saw the first salve. However, in accord with instructions, those backers-up which arrived during this gap did not release their green T.I's, thus preventing an early soatter. after the second salvo of red T.I. was dropped, continuous marking was maintained by the backers-up and the Oboe aircraft. The attack was exceptionally concentrated; the specially selected onews in the first wave of the main force, which attack without the aid of groundmarkers, started many fires just S. ... of the aiming The later waves, aiming at these fires or at T.I's , also bonbed point. In all, 524 aircraft (80% of attackors) are estimated to have accurately. banbed within 3 miles of the aiming point. This achievement was fully confirmed by reconnaissance photographs.

...../Daylight Beconnaissance

ylight Reconnaissance

p. Photographic cover for the whole town and most of the surrounding istricts was obtained after the raid. These show widespread devastation; : least two-thirds of the town istraction the Rhine and the main station, mich contains the principal business and administrative buildings, was estroyed, and the destruction spread castwards and southwards to the main rhustrial areas. It is evident that the fires were wholly out of control, ad spread throughout the city. Some buildings were still burning a week fter the attack, the main streets and thoroughfares appeared deserted.

About 64 factories or industrial concerns suffered damage. Of these, have been identified, including 5 of the first priority and at least 12irectly concerned with war production. These include the Schiess-Defriess G., (leading producers of heavy machine tools) the Rheinmetall Borsig G., (one of the most important manufacturers in Germany of all types of avy armaments), Deutsche Rohrenwerke ...G., Hannestamn Röhrenwerke ...G., atchoffnungshitto ...G., 7 other important metal works and one factory ir railway waggons.

Serious damage in the dock area included about 70 warehouses, sheds ind other buildings, and an oil storage plant suffered severely. Several mildings of the main railway station were gutted, and 6 warehouses istroyed. Much damage was caused to 4 railway sidings and 5 goods depots, at 135 goods waggons were destroyed.

Dumage to public utilities included the destruction of a gasholder and several buildings of the power station and the bas-works. 18 state and micipal buildings sustained major dimage, and 50 others minor damage.

More than 530 acres of residential and conserval property were evaluated, and it is estimated that about 26,000 families were rendered meless.

ternative Targets

. Owing to technical defects, ising or interception by encoy aircraft, bombers attacked alternative targets on Overflakkee Island(3), west of clogne(1), and near Keemend.

coial Equipment

5. Gee (Dusseldorf and Munster)

The Eastern Chain operated on the Virginia frequency throughout and a the target frequency from 0050 hours to 0220 hours. Analysis of reports for 623 aircraft, 10% of which had difficulties with their equipment, we an average rarge of 255 miles. 11 aircraft received Gee over the target, distance of 345 miles. There was heavy jamming at the enery coast; weral aircraft reported signal inversion.

Oboe

13 Mosquitces equipped with Obce were despatched to ground-mark the arget, but serviceability was very low, and only 6 aircraft attacked. 6 illuros were due to defects in the special equipment, evenly divided between ach pair of control stations, and ne aircraft returned early owing to a schanical defect. The performance of the attacking aircraft was good, but beir marking was necessarily discontinuous; there was a gap of 6 minutes after is first markers extinguished, and 3 subsequent gaps, while the last red T.I's that cut 7 minutes before the end of the raid. Yellow T.I's were correctly pleased by the same 6 Mosquitces, en route.

..../17

mouth on the

1. ..

17. <u>H2S</u>

Three I-type Halifaxes were included in the backers-up, using H2S for navigational purposes only. 2 of these _dentified the target by H2S as well as by red T.I's while the third attacked an alternative target after interception by 2 enemy aircraft.

- T ...

Enemy Defences

18. Plak and Searchlights

With cloud varying from nil to 10/10ths offer the target area, and heavy moke in the later stages of the attack, ground defences were less accurate and intense than usual. About 100 search lights were reported, principally on and outside the western half of the target perimeter, and these succeeded several times in "coning" aircraft with up to 25 bears, but co-operation with flak was generally ineffective. The main defence over the centre of the target was heavy flak in barrage form which appeared to increase in intensity as the attack developed. At least air belloons word reported at heights of 6-10,000 feet. Elsewhere, accurate heavy flak was reported over the Schelde Basin and in the Amsterdam area co-operating with many search lights. However, the flak in this area appears to have been responsible for only 10% of the damage caused to aircraft by ground defences, the remaining 90% being sustained in the target area. 83 aircraft were damaged by flak, Halifaxes suffering most with 35 aircraft (17%) damaged.

19. Fighters (Dusseldorf and Munster)

. Since the route to both targets coincided over the North Sea and the Low Countries, fighter opposition to both raids has been considered as a whole.

Enony wireless ineffic revealed 14 patrols operating against our bombers. 24 pursuits were undertaken, and of those the 6 inct established contact all claimed victories, the claims apparently being justified. Both enemy reports and those of our crews indicate that fighters were slightly more active on the outward journey. Dusseldorf crows reported 79 interceptions, including 12 attacks and 21 other combats, while the Munster raiders reported 11 interceptions, with 2 attacks and 5 other combats. Nost of the controlled night fighters were encountered over the Scholdt Estuary and in the Gilze Rijen/ Eindhoven area. Several crews reported fighters cooperating with searchlights near Krefeld. Energy aircraft damaged 2 bombers en route for Dusseldorf and another over Munster. 2 energy aircraft were destroyed, 5 probably destroyed and 6 damaged. If these, one was destroyed and one probably destroyed in combat with a single Halifax.

Casualties

								Dusseldorf	Hunst	er
20.	No.	of	aircraft	missing.	•••			38	. 5	
\sim	4	34		damaged	(a)	flak83	2	07	2	
Q.	8		÷	£		fighter 2 other causes 8		, , ,	3	

During the period of the raids there were almost 200 reports of aircraft seen falling. Consideration of these reports and of the claims by Gorman fighter pilots indicated that of the 43 aircraft missing, at least 17 were lost to fighters and 19 to flak. Nost of these 1 same, occurred over Holland end N.W. Germany, but one aircraft was that down by flak from a ship off the Dutch coast, 7 by flak and 1 by fighters over Dusseldorf, and one by flak over Munster. Of the 7 remaining missing direraft, one cure do m in the sea 20 miles off Hundealey. Nothing is known of the fact of the others. In addition to aircraft damaged by enemy action, 2 were reported damaged by British incendibonbs and 4 by N.G. fire from British plance, while one was shot lown by a British Convoy, 6 of the crew being rescued. Lending accidents destroyed two more aircraft.

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MUNSTER

Period of Attack

Zero hour: 0200 hours. Period of Attack: 0200-0203 hours. 21.

Briefed route: 52°23'N 01°43'E - 51°23'N 05°00'E - 51°57'N 06°20'E -Hunster - turn right - 51°50'N 05 20'E - 52 40'N 03°30'E.

At 0200 hours, the aiming point was to be marked with yellow T.I's dropped by 22 aircraft ("blind illuminators") and 10 seconds later on the same heading, these aircraft were to release sticks of flarcs in bundles at 5-second intervals. At 0202 hours, 11 "visual markers" after positive dentification of the aiming point in the light of flares, were to drop red T.I's on it.

At 0203 hours, crews of the main force night identify the airing point visually, or were to ain their boubs at the estimated centre of all the red T.I's. As a last report they could and to overshoot by 2 seconds the centry of all yellow T.I's seen. Crossof Y aircraft were to bonb blindly on H2S. 0

Bombs Loads

22. Blind Illuminators:	Stirlings:	5 T.I. yello: (3 LB) + 4 (3 flares White) + 2 x 2000 lb. H.C. + 2 x 500 lb. I.C.
	Halifaxes:	5 T.I. yellow (3LB) + 4(4 flares white) + 6 x 1000 lb. G.P. or M.C.
4*1.	Lancasters:	5 T.I. yellow(3LB) + 4 (4 flares white) + 1 x 4000 lb. N.C. + 3 x 1000 :
	\sim	
50 ° 1		2 N N
' Visual Markers:	Stirlings:	4 T.I. red (2LB) + 5 x 1000 1b. H.C.
	Halifaxes:	4 T.I. red (2LB) + 6 x 1000 1b.M.C.
	Lañcasters	4 T.I. red (2LB) + 1 x 4000 lb. H.C.+ 4 x 1000 lb. H.C. + 2 x 500 lb. M.C.
Main Force	Stirlings: Hulifaxes:	2 x 500 lb. H.C. + 160 x 30 lb. I.E. 1 x 2000 lb. H.C. + 2 x 1000 lb. G.P. 88 x 30 lb. I.T.
	Lancesters	1 x 4000 lb. 1.C. + 96 x 30 lb. I.B.
(L.)	. = long burni	inį
Sorties		
" rep	orting attack ties (technics defects.	on prin. area
" aircraft mis	sing	
Weather Experienced		· · · · · · · · · · · · · · · · · · ·
2011 0000000000000000000000000000000000		
24. Hone Bases and rout	e:- as for Du	usseldorf.

Target:- Occasional patches of 7-10/10 the cloud, teps 12,000 ft. towards end of attack. Otherwise shall amounts of cloud with moderate visibility. Half moon.

Night Photographic Statistics

25.	No. of photogr	aphs with bombin	3 examined
÷.		showing	(plotted within 3 miles31)
		ground detail	(" cutside 3 miles. 3)40
			(unplotted
		showing	
		fire tracks	(unplotted)
			and the second sec
	" aircraf	't reporting atte	10k
		estimated from	n the photographic evidence, 👝 🔪
		to have bonbed	within 3 miles of the

Narrative of Attack

26. The target was ground-marked and illuminated by 13 Y type aircraft bombing blind, followed by 8 visual markers; the blind-markers attacked within 4 minutes of zero hour, and the visual markers within 5 minutes of 0202(time scheduled). Both green and red T.I's were accurately placed, and the target was so well illuminated that no difficulty was found in identifying the aiming point. The whole effort, which lasted only 9 minutes, was well concentrated, about 80; of the circraft reporting attack bombing within the 3 mile circle. For so shall a number of aircraft the damage caused was considerable.

Daylight Reconnaissance

27. The whole of the town and most of the surrounding districts were covered on prints which are marred in the main area of duringe by snoke from hurning buildings.

12

Considerable damage was revealed, almost ontirely in the area near the main passenger and goods stations, stretching from the centre of the town to the port and industrial area to the south-east. 4 unidentified industrial premises sustained damage, and about 20 connercial buildings, including the Halle Hunsterland and Peters warehouse, in the conditional harbour area were destroyed or are still burning. Severe damage to railway property included hits on platforms and railway tracks in the main passenger station, and the partial destruction of the main building of the goods station, which was still burning at the time of photography. Railway repair shops were also damaged. One gas holder was severely damaged and 4 buildings of the town gasworks were affected.

Domage to residential and business property included 29 buildings destroyed and 10 severely danaged.

.

Alternative Targets

28. No alternative target was attacked.

Special Equipment

29. Goe Sec parn. 15.

30. H2S

A total of 47 Y-type aircraft were despatched, 22 as blind-markers, 9 as visual markers and 16 to boob with the main force. Only one aircraft

3 C

turned early owing to unserviceable equipment, but 6 reported difficulties th H2S over the target...4 of these were blind-markers, but the illumination the target was so efficient that visual identification of the aiming int was possible. 6.Y-aircraft returned early using to icing or mochanical feets, and 4 were missing....

neny Defences

Plak and Searchlights

. . .

. . .

The defences of Minister appear to have been similar to those at usseldorf, with searchlights operating in comes up to 25 beans, and barrage lak. One aircraft was shot down by flak, over the target, while 2 sustained lak damage.

2. Fighters

See para. 19.

Casualties

33. See pera, 20.

Duisburg and Cologne

34. 3 Mosquitoes were despatched to attack Duisburg and 2 to Cologne. One Duisburg sortie was abortive, owing to the illness of one of the crew. All the other aircraft bombed from very high level; 3 fires were seen to start in Cologne, but no other results were observed. No opposition was encountered; and all the Mosquitoes returned safely.

Leaflets

35. Training Groups despatched 25 aircraft to drop leaflets; 5 to Orleens, 8 to Nantes, 7 to Caen and 3 to Le Mins. 20 aircraft completed the task successfully, and one other released its leaflets near usual, owing to lack of oxygen. One Le Mins sortie was abortive owing to a technical defect, and the remaining aircraft (on Non**tes**) was missing without trace. Plak from Bayoux damaged one Wellington, and 3 interceptions were reported, from which no combats developed.

PPEDIC

DUSSELDORF

Tining of Attack

(a) Pathfinder Force

(i) 6 Mosquitoes attacked at 0116, 0130, 0138, 0146, 0151 and 0205 hours.

(11) 29 Backers-up attacked at 0120x, 0127(2xx), 0128x, 0131x, 0132x, 0134, 0136(2xx), 0139(2x), 0142, 0143x, 0144, 0147, 0149(2), 0151(2x), 0154, 0158x, 0159(2), 0203x, 0206, 0207x, 0212, 0213 (2xx), plub one at an unstated time.

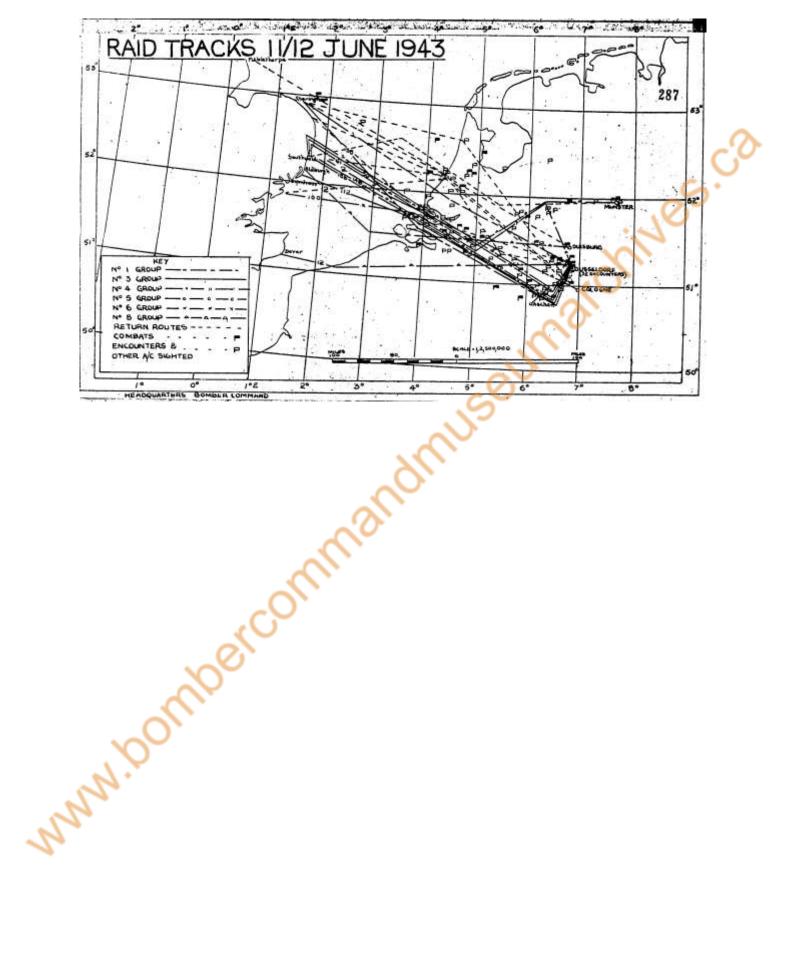
. T.I's not dropped.

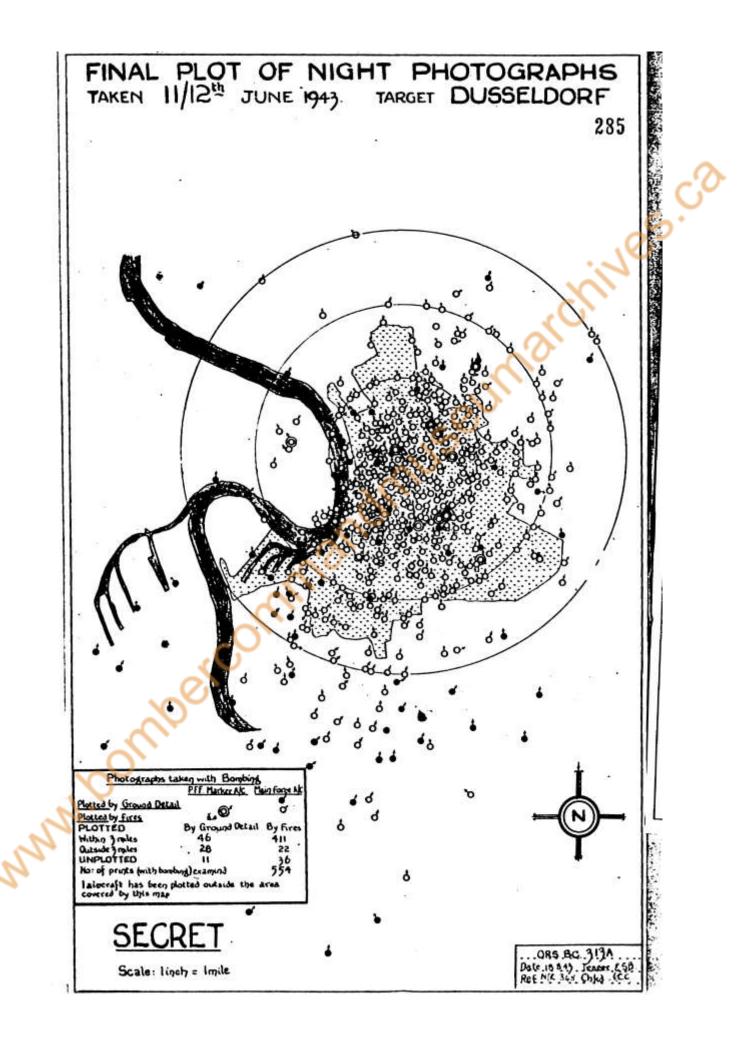
...../(b) Lain Force

*
10.
(b) Main Porce
Attacked 2 minutes carly1 between 0120 and 012427
• 0125 cm ² 0129
" " 0135 and 0139
0140 and 0144
" 0150 cm2 0154
" 0155 and 0159
" 0205 cnd 0209
" " 0215 and 0219
" 1 to 5 minutes late
Bonb Lond Carried
II. (a) Pathfinder Force
T.I. + flores
T.I. + H.E
(b) Main Force
H.E. + 30 lb. inc. + 4 lb. inc
H.E. + 30 lb. inc
H.E. only
30 lb. inc. + 4 li. inc
HUNSTER
Tining of Attack
III. (a) Pathfinder Porce
(i) 12 blind-markers .ttacked at 0159(3), 0200(6), 0201(2), 0202
2 " " 0200, flares not dropped 2 " " 0200, 0202, T.I's not dropped
2 " " 0202, 0204, T.I's and flares net dropped
(ii) 8 visual markers attacked at 0201, 0203, 0204(2), 0207. 1 5 0202, T.I's not dropped
(b) He in Porce
34 airoraft atteokue et 0201(2); 0202(3), 0203(11,), 0 04(8), 0205(4
0206, 0207, 0208,
IV. (a) Pathfinder Force
T.I. + florgs + H.E.
T.I. + H.E
(b) Hain Force
H.E. + 30 lb. inc
END/VP.
BC/S. 26342/2/CRS. 15th August, 1943.
17th August, 1747.

PROGLEMENT	MINISTER:	STLEENUNG:	COLOGNE.	(Lonflots)	11/12th June, 1943	S
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Target	Group	Туре	Sorties		operting ack on			Hissing		Domingo		The second	reeptions		alta of Bomb
				prin.	alt.		not over on.territ.		flok	fighter	not E/4	att-	not attaolard	H.E.	Inc.
DUSSELDORP	8 P.F.F.	Mosq. IV Bal.HI-La Hol. HIZ Lanc. I Lonc. III	13 4 5 8 15	5 2 5 8 5		.2	5	1 - 1 - 1						(in) Ho	18-8 1001 7-6 6 44-6 37 avy Bonba
	1	Leno. III Jeno. III Jell. X	43 85 50	52 71 57	1	Ξ	6 9 12	5 4 1	5 2+1,10 2+1,10	Ξ		1 2 -	5 10 6		10 289
	3	Lens. II Stir. I Stir. III	13 18 81	11 15 71		-	27-	1 - 2	1 11	=		1 1 1	- 1 7	(10)	C 13
	4	Hal. II-L. Hal. VZ Fell. X	32 110 44	27 91 37	11.	-	2 12 3	194	8 19+1,(C+ 3	13 - 13 -	12+1B 	2	351		C
	5	Lano. I Lano. III	54 108	49 98	-	ī	26	3	- 11	140	2	12	5 12		01
	6	Hal.ILSW2 Wall. X	51 49	41 39			5	25	4+1B 2+1C		-	1	5		U.
USSELDORF	TOTAL		783	655	5	5	80	38	77+44C +2B	2.0	38+18 +4	11	30		•





FIGHT RAID REPORT NO. 349

COPY NC. 6

BOHEER COLCAND REPORT ON NIGHT OPER TICKS 12/13th JUNE, 1943.

BOOHUN: Minelaying.

SULFARY

1. <u>Bochum</u> 430 heavy aircraft, out of a force of 503, effectively attacked Bochum, despite a quantity of layer cloud and the dropping of a salvo of red 5.1's 14 miles from the aiming point. Nuch destruction was caused in the centre of the town, where 130 acres were devastited and 9 industries (3 of the first priority) sustained considerable damage. Military installations and transport facilities also suffered. 24 aircraft failed to return and 5 enemy fighters were destroyed.

2. <u>Hinelaying</u> 30 aircraft, out of a force of 34, laid 59 mines off the Prisians and the French Atlantic coast. All returned undamaged.

Meteorological Forecast

3. Eidnight frontal positions:- (1) occlusion from 60°N. 16°E. to 55°N.14°E. to Frankfurt (2) occlusion from 60°N.12½°E. to 55°N.12°E. to Hanover, becoming were to 48°N.07°E. and cold to 49°N.05°E. to La Pallice.

Bases:- Pit all night, with skics clearing at dusk and visibility always more than 2 miles.

Germany:- North Sea and N.W. coastal strip: broken convection cloud, good visibility. Good clearances between coast and front over N. Germany. Cloud) great heights in frontal zone, with icing above to 10,000'. S. and S.E. of frental zone: residual cloud with local thunderstorms. Ruhr: probably cloudless by 0100, at worst 8-10/10ths layer cloud, tops 8-9,000' with broken strato-cumulus at 14,000'. Cloud should definitely break by 0200 to small enounts. Visibility good. Little cloud en route, base not below 2,000'.

W. France:- Convection cloud, becoming well broken S. of La Pallice.

Winds:- 📿		750 mb.	500mb.	350mb.
Bases, N. of Bristol S. " 01 ⁰ E. to Den Holder Den Helder to Ruhr	••••	250°/40c.p.h.	260°/50-55m.p.h "/60-65m.p.h. "/75m.p.h. "/50m.p.h.	260 ⁰ /80n.p.h. "/95m.p.h. "/115m.p.h. 280 ⁰ /60-65m.p.h.

BOCHUN

Plan of Attack

Zero hour: 0115 hours.

Period of Attack: 0111-0154 hours.

The first two Obce Moaquitoes only were to drop yellow T.I's as warning burkers, 16 miles short of the aiming point on track, at 51°42'N. 07012'E. The aiming point was to be marked by 9 Mosquitoes, each dropping 3 red T.I's in salvo between 0111 and 0150 hours. This marking was to be backed up by 25 aircraft aiming green T.I's to overshoot, by 3 seconds, red if visible, but otherwise the centre of all greens seen. Before 0125, one of the T.I's dropped by each Mosquito and each backer up Was to burst at 6,000': after 0125 hours one was to burst at 10,000'. All other T.I's were to burst at 3,000'.

...../The main

The main force, consisting of Lancasters and Halifaxes carrying mixed loads, was to be divided into 8 sections, with Lancesters opening and ending the attack, and with the best crews in the first two waves. All crews were ordered to fly at maximum height on the return journey, after leaving the target area as quickly as possible, in order to reduce the effectiveness of controlled fighters.

.

	fighters.	ssible, in order to reduce the ef	0
3	Tining		C ^C
	5. Mosquitoes	Backers-up	Hain Porce
	0111 & 0115	-	Sect.1 Lancasters 0115-011
	-	2 at 0116	
	-	2 at 0117	
	0120	2 at 1 min.intervals 0118-19	Sect.2 Loncasters 0120-012
	-	4 at 1 min.intervals 0121-24	-
	0125	-	Scot.3 Lancasters 0125-0129
	-	2 at 1 min.intervals 0126-27	-
	-	1 at 0129	2
	0130	2 at 1 min.intervals 0131-32	Scot.4 Halifaxes 0130-013
		1 at 0134	
	0135		Sect. 5 Halifaxes 0135-013
		2 at 1 min. intervals 0136-37	
		1 at 0139	
	0140		Geot.6 Annoaster & Halifaxes 0140-0141
		2 at 1 min.intervals 0141-42	Halifaxes 0140-014
	2	1 at 0144	/a 2
	0145		Scct.7 Lancasters 0145-014
	-	2 at 1 min.intervals 0146-47	
		1 at 0149	
	0150	-	Suct.8 Lancasters 0150-015
	×	* Plus 2 reserves.	
	Boob Loads - (M 6. 2 Hosquit 9 Nosquit 16 Japonst	Ces: 1 r. r. yellow (LB) + 3 T.	I. rod (1 LB) 1 x 4000 HC + 4 x 1000 GP +
	9 Lancast		$4 \times 4000 \text{ HC} + 4 \times 1000 \text{ GP} + 4 \times 500 \text{ MC}$ $40002 \text{ HC} + 4 \times 1000 \text{ GP} + 4 \times 500$
	Route Briefed	aa	. = long delay: 5 minutes)
	7. All Grou 52°10'N. 07°30' Sorties	ps: N. of Texel - 52 ⁰ 00'1. 07 ⁰ 11' E N. of Texel.	E BOCHUN! - turn left -
100	8. (c.) No. (b) " (c) "	of aircraft despatched " " reporting attack on prin " " alter	ary area
N	.(ā) "		defcot
		(attacked by (reserve mark (T.I's wreng)	ft behind 1) 43(fighter
	(o) "	" aircraf : missing	
		(This circraft also attacked t	he primry)/Weather EXF.

2

es.co

31.

ther Experienced

Bases :- Fit all night.

Route: - Little cloud, increasing towards target. Moderate visibility.

Half moon. Surface wind: light W.H.W.

3.

Wind at 18,000': 260°/45 n.p.h.

Wind at 23,000': 260°/60 n.p.h.

ht Photographic Statistics

. Of 400 photographs returned, only 26 showed traces of ground detail, and by half of these could be plotted. Most of the remainder recorded scattered rendiary and fire-tracks beneath haze and thin cloud, without any evidence of mentrated fires. No plot has been issued in view of the inadequacy of the rple.

rative of Attack

The first 2 Mosquitoes dropped their yellow T.I's on track 16 miles short the target at zero - $3\frac{1}{2}$ and zero - 3, and 4 minutes later marked the aimingist with red T.I's. These primary markers were photoraphed on the aiming-point zero + 3 by a main force aircraft. The marking was renewed at zero + $11\frac{1}{2}$. 12 + 19, zero + 23, zero + 38 and zero + 41, so that except for a gap of 6 makes from zero + 32 to zero + 38, the aiming-point was continuously illuminated red T.I's. No P.P.F. photos were plotted, so that, apart from the abovetioned instance, there is no positive evidence of the accuracy of the marking.

At zero + 25, a nest unusual incident occurred. A salve of red T.I's was red in error by a Mosquite about 14 miles N.N.E. of the aiming-point. 2 mits later, these were backed up with green T.I's an about 50 aircraft tributed to this diversion. Nevertheless 75% of the backers-up and 65, of the tributed to the correct concentration of parkers; but from the start there serious undershooting, and by zero + 12, the attack had drifted back 6 to 9 is. This was due partly to an unexpectedly strong cross-wind, which would have tren aircraft on a curved course, and partly perhaps to durny T.I's.

light Reconnaissance

Heavy destruction was revealed in the centre of the town, and to the E and) industrial establishments, 3 of them of the first priority, were affected by stack. Very severe devastation was caused in the Eisen-und Huttenwerke A.C., if acturers of sheet metal and steels, where a number of important buildings were aut of action. Residenti 1 and business properties suffered widespread damage, recially in the centre of the city, where 130 acres were laid waste and 700 lidings rendered uninhabitable. More than 14,000 square yards of the upper reys of barrack buildings at a large new military camp N.W. of Kornharpen were ted, and several relevant buildings destroyed or severely damaged. The Bahnhof Ford (station buildings) were jutted, and nearby sheds demolished. A large may dopot suffered heavily from H.E. blast, and several adjacent subsidiary lidings were partly destroyed.

Age Assessment

It is estimated that :-

- (1) 134 tons of bombs fell on the built up area of the target.
- ii) 3.18 million sq. foot of the target were visibly damaged.
- (iii) 6,000 housing units were rendered uninhabitable.
- iv) 21,000 people were unhoused.
- v) 400 pcople were killed.
- (vi) 400 people were seriously injured.

..../Special Equipment.

Special Equipment

14. (a) Oboe 11 Oboe Mosquitocs (including 2 reserves) were despatched. 7 narked the target according to plan, and 3 returned early (one reserve which was not required, and 2 for technical reasons). Owing to an error in setting up the ground station, one aircraft dropped T.I's 14 miles N.M.E. of the aiming point. All Oboe aircraft returned safely.

15. (b) Gee The Eastern chain operated on the Virginia frequency throughout the raid. No separate target frequency was used, owing to work on the transmitters. Jaming was intense at Texel, and could be felt at about 2°E. The average range obtained on the outward journey was 230 miles and on the way home 240 miles, while the maximum range recorded was 340 miles. A comparison of these ranges with those obtained on this route before the introduction of a separate target frequency show that there has been a definite improvement in the ability of navigators to read through jaming.

Alternative Targets

16. 7 aircraft (including one which had already visited the primary) attacked alternative targets, in the areas of Rheine, Essen, Dorsten, Ahaus, Bochum (2) and Herne.

Eneny Defences

17. (a) <u>Plak and Searchlights</u> Plak was first encountered from the islands of Texel, Vlieland and Terschelling and, to a small extent, from the towns of Zwolle and Hengelo. Heavier opposition was net at Munster and Dulmen, where predicted heavy flak was accurate and intense, co-operating at Munster with 90 searchlights. Increased cloud over the target area hampered the effective use of searchlights which were mostly situated in a belt to the N. and W. of the town, but heavy flak (both predicted and barrage) was reported as unusually inten-Severe opposition was also encountered at Essen, Dortzund and Gladbeck.

43 roturning aircraft were dinaged by flak, including 35 (10.75) of the Lancasters and 8 (4.8%) of the Halifaxes.

18. (b) <u>Fighters</u> Intercepted wireless traffic revealed the presence of 14 patrols in the area of operations. The greatest activity was apparently over the Zuyder Zee, by aircraft based on Bergen/Alkmaar. 24 pursuits were under-taken, and 8 definite and 3 doubtful victorics were claimed. 4 of these were confirmed by our crews.

Returning bombers reported 74 interceptions, including 16 attacks. Half of all these occurred on the return journey, and quarter each on the outward journey and in the target area. Bright moonlight and good visibility assisted the fighters, 5 of which were claimed as destroyed, (2 Ju.88's, 2 He.109's, and one unidentified single-engined aircraft). All these claims were substantiated by other crews. Only 4 of the bombers reported fighter damage.

Casualties

9.

22 of our losses were observed by British crews. 6 were probably lost to flak (2 outbound over Enschede and Muncher, 3 in the target area and one homebound over Munster), and at least 11 to fighters (4 outbound, 2 in the target area, 3 homebound and 2 of doubtful location). The remaining 5 aircraft were spen to 8° down over the target, 2 collided, but the cause of the other 3 losses is unknown. The loss rate of 4.8% is about average for the Ruhr in good weather conditions.

..../Minclaying.

1944 A. 1944 B

11

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5.

MINELAYING

34 Wellingtons of 1, 4 and 6 Groups were detailed to lay mines off the sinns and the French Atlantic coast. In good weather conditions, with little and bright moonlight, 30 re shed their targets, laying 59 mines. The other iled for technical reasons. Ine aircraft was attacked by a fighter in the sians area, but took successful evasive action, and all our aircraft returned p.s. mged.

APPENDIX

ing of Attack

Pathfinder Force

7 Nosquitoes attacked, at: 01152, 0116, 01262, 0134, 0138, 0153, and 0156.

31 aircraft

24 backers-up attacked, at: 0120(2), 0121, 0122, 0123, 0124, 0127, 0129(2), 1(2), 0132, 0133, 0135, 0136 (2), 0137, 0138, 0143(3), 0144, 0148, and 0154.

Main Force

132 aircraft attacked from 0115 - 0130 116 Ħ 11 " 0130 - 0140 149 n. 11 " 0140 - 0200 2 12 12 after 0200

399 aircraft.

: Loads

(of aircraft reporting att.ck)

Pathfinder Force

7 Mosquitoes carried T.I. only 24 backers-up " T.I. + H.E.

31 aircraft.

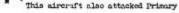
Main Porce

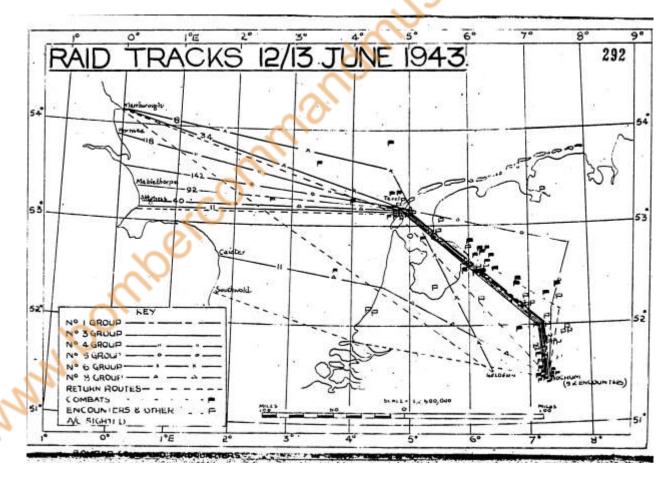
231 aircraft carried H.E. + 4011. + 30-1b. incendiaries. 86 12 H.E. + 30-1b. incendiaries 82 -H.E. + 401b. incendiaries.

299 aircraft.

26342/1/ORS. ugust, 1943.

Talelin	GROUP	71278	SOUTDE	1~0.10	LOCATION:	1210-77	AND INCOMENTAL	MISSING	T	Descare		LUTSHC 42	TCCS	Tors of Bonb
	-			PRDL ARE.	ALT.	OVER ENERT	NOT OVER ENERY TERR.			FIGHTER	NOT ENERTY CTION	TTLCK- ED	NOT LTLCK- ED	H.E. Inc.
BOCHUN	8 P.F.F.	Wosq.IV	11	17	-	4		-	-	-	1.1	-	-	P. 827 8 679.
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	8	Hal-II, LIZ,	17	17	1-	-	1	-	2	-		-	2	16 50.0 39.
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		Lano.III	13	12	- A	-	-	1			- 2	-	1.2.3	Baavy Borbs
	1	Lono.I	33	27	-	1	3	2	2	1C	140	2	2	8000 4000
1		Long.III	72	66	1		2	1	7	-		2	10	P. 8 273
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		Hal.LA	26	23	1	-	-	2	1	-	1.0	2	2	
	5	Lanc.III	65 100	57 84	ī	1	7 9	6	9 14 0	1	-	22	5 15	Peen Prinary a-on Alterative N= corried by
	6	Hal. HZ, VZ.	37	28	1	-	5	3	1	-	-	,	5	nissing 4/
DIBING TOTA	L		503	430	6+1×	7	36	24	42+ 1C	210	240	16	58	
SLANS .	1	Well. X	10	10	-	-	-		-		-	1		20 mines
	6	Well, X	8	4	-		4	-	-	-	-			8 mines
L.Z.IRE	4	Well. X	8	8	-	-	-		-	-	-	-		16 mines
1923	4	Well. X	8	8	-	-	-	-	-	-	-	(A)	-	15 mines
ELITE TO	2.15		34	30	-	-	4	-	-	-	-0		4	59 mines
TOTA	L		537	460	6+1#	7	40	24	42+ 1AC	2,0	210	17	58	2





BOMB PLOTS NOT PRODUCED FOR THIS RAID

es.ce

NIGHT RAID REPORT NO. 350

COPT NO. . 16

MEER COMMAND REPORT ON NIGHT OPERATIONS, 13/14th JURE, 1943.

BERLIN: Dusseldorf: Colcgne: Minelaying: Leaflets

SUMMARY

rlin: Dusseldorf: Cologne 6 Mosquitoes were despatched on a harassing nat Berlin, 4 to Dusseldorf and 3 to Cologne. 11 attacked their targets, served results. All returned safely.

nelaying 24 aircraft, out of a force of 30, laid 65 mines off the lantic coast. One aircraft was lost.

aflets 6 aircraft, out of a force of 8, dispersed leaflets over Paris

gical Forecast

dnight frontal positions: occlusion from Danzig to Breslau to Lyons.

uses:- Pine all night, apart from isolated showers, with dispersing a moderate to good visibility.

rmany:- W. of the occlusion, residual convection and layer cloud will to small amounts after midnight, though arifting pitches of stratomay persist, especially over N. J. coastal strip. Ruhr: probably less oths. Berlin: small amounts of strato-cumulus.

Prance:- Broken cloud in N., decreasing southwards to small amounts. ibility. Wind at 15,000', 2500/50 m.p.h., increasing considerably at neights.

÷	<u>. Bo</u>	nbing	Minelaying	Leaflets
No.	of aircraft despetched	13	30	8
) " :	" reachi 3 prim.arcc		24	.6
») "	" abortive sortics (technical defcot2)	2	2) 5	2) 2
1) " ((weather0) " aircraft missing	0	J) 1	0,0

Experienced

ises:- Pit all night, apart from scattered showers in S.

erlin:- 10/10 ths cloud, tops 18,000'. Three-quarters moon. Excellent ty.

asseldorf-Cologne:- 10/11ths. cloud, tops 15-18,0001. Three-quarters Excellent visibility.

bute to W. France:- Spat ered showers over England and Channel. 10/10ths. yer cloud, with convection protruding, some tops above 13,000!. us rain S. of 50°N. Heavy rime in cloud.

..../Brest:-

Brest:- Prequent showers. Cloud broken at times, base 2,000'.

Lorient: - 10/10 ths. layer cloud, base 4000'. Rain.

La Pallice and S'wards:- Small amounts of convection, base 3-4,000'. Good visibility.

Paris-Lille:- 10/10ths light stratus, tops 21,000'.

Enemy Defences

1.1

7. Moderate to intense heavy flak was experienced over Hunchen-Gladbach, Cologne and Dusseldorf at 28,000', accurately predicted as well as barrage. Opposition at Berlin was very slight, although 4 Mosquitoes sustained slight damage. No flak opposition was reported over France.

58 sorties by controlled .ighters were overheard, 12 of which were actim against British aircraft. No claims were heard, and no interceptions were reported apart from 3 approaches.

Casualties

8. One minelayer did not return from Lorient. There is no evidence of have or where it was lost.

HIN/J	r	S
BC/S.	r. 26342/1/0	ORS.
22nd.	August,	1943

TWORT	GROUP	TTT:	SORTIDES		KARYORZIDAG	ALOR VE SORTIES		MISSING	DALGE			IN THEFTOUR		RESULTS H. E. Inc	
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DUSSELDORP	8 p. p. F.	Mong.IV	4	3	-		1		1		-	-	1	(P) 2.3 COLIGNE	
COLOCHE	8 P.F.F.	Hong.IV	3	3	-	-	2		1	-	-		-	(P) 2.3	
BOMBING TO	ML		13	11	-	-	2		4	-	-		1	P = on Primary	
ORLENT	1	Well.X	6	4	-		1	1	-	-	-		-	6 mines	
T. NAZAIRE	1	Well.X	6	3	-		3	-	<u> </u>		-	-	-	6 mines	
A PALLICE	3	Stir,III	6	5	-	-	1	-	-	-	-		-	16 mines	
TROUDE	3	Stir-I Stir-III	2	2 4	-	-	1		1	-	2	-	-	8 mines 15 mines	
RRST	6	Well.X	6	6	-		-	-	-	-	- H	-	-	12 mines	
THELAYING T	DTAL		30	24	-	-	5	1	-	-	-	-		65 mines	
AUFLATS ARIS	93	Well.III	2	1	-	1	-		-	-	-		-		
TILE	. 93	Well.Ic.	4 2	2	-		1		-	-	-		1		
LEGILET TOTA	6		8	6	-	1	1		-	7	-	-	2		
TOTAL	di menangan Sarah	0	51	41	-	1	8	1	4	-	-	-	3		

MOST SECRET

NIGHT RAID REPORT NO. COPY NO. 16 ...

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....

260 /40 m.p.h.

/95 n.p.h.

BOMBER COMMAND REPORT ON NIGHT OPERATIONS 14/15th JUNE, 1943.

OBERHAUSEN : Cologne : Minelaying.

SUMMARY.

RHAUSEN

13.13

197 heavy bombers and 6 Mosquitoes were detailed against the manufacturing tre of Oberhausen.' The target was purtially obscured by cloud, but an assurate -marking attack was delivered, causing much damage to industrial concerns and astating the centre of the town. 17 aircraft were lost. 4 enony fighters o destroyed.

ogne.

2 Mosquitoes carried out a harassing raid on Cologne without loss,

16 AN 11 10 10 10 10

elaying

25 aircraft, out of a force of 29, laid 59 mines in the Bay of Biscay. One oraft did not return. and the second second second

porclogical Forecast

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127.5

.....

Bases :- Fit all night, with variable cumulus and cumula-nighus cloud at 00' and good visibility except in showers. Rain may begin in the N. by 0400.

Germany:- 10/10 thas medium and low cloud in N. and N.W., tops 20,000' with 10-nimbus oloud above, and outbreaks of thundery rain. The main mass of ... ad should have moved N.E., of the Ruhr by midnight, leaving:6-9/16ths. esidual curalus and curalo-nimbus cloud in layers, with isolated tons to 000'. Good visibility. Route: fairly well-broken curulus and curulo-nimbus ad, tops 20-25,000'. Drifting thunderstorms over North Sea.

Demarkand Kattegat: - Variable convection cloud, with showers.

W. France: - Much convection cloud, with showers. -

Winds:- W. of 04°E.

t 500 mb: 290º/25-30 m.p.h. .

t 350 mb: \3007/35-40 m.p.h.

OBERHAUSEN.

of Attack.

Zero Hour: - 0115 hrs.

Period of Attack: 0115-0134 hrs.

"At five minute intervals between 0115 and 0130 hrs., 4 Oboe Mosquitoes were rop release point flares (red with green stars + one white flare for longer ing) at the centre of which crows of the main force were to aim their bornos heading of 028°N. and at 165 m.p.h. I. ... S. with bombsights set for true heights airspeed and zero wind. The Loncasters, carrying mixed loads, were to attack our waves (0115-19, 0120-24, 0125-29 and 0130-34 hrs). If no skymarkers were ble on arrival, orcws were to bonb on E.T.

As an aid to navigation en route to the target, the Mosqu'. is were to rollease steady flares at 51 07'N. 06034'E., 28 miles short of the release-point. warning of the sky-marking, green steady flares were to be released, 141 miles t of the target at 51°17'N. 06°42'E.

Two other Oboe Mosquitoes were detailed as reserves. Plare Loads, Bach Mosquito was to carry 1 (3 fla es red) + 1 (3 flares green) + 2 (3 6. flares red with green stars + 1 white flare). All flores fusci to ignite at 18,000". Routes Base - 51°40'N. 03°30'E - 51°02'N. 06°30'E - Oberhausen - turn left -7. 51050'N. 06055'E - 52045'N. 04040'E - base. Sorties (a) No. of aircraft despatched 203 8. . " (a) . abortive sorties (technical or manipulative defect. 3. "mor. a) 124 14.5 2 29) ioing...... 5). 1 36 (17. (reserv : markers(not required 2) ·(e) " aircraft missing Weather Experienced Bases :- Fit all night, avert from a few local showers. 9. Route:- Well broken cleud, tops below 14,000'; but 7-10/16 ths over Dutch Coast, with occasional tops to 25,000' and lightning. Good visibility. Persistent contrails over England and North Sea between 15,000' and 21,000'. Oberhausen: - 5-8/10 ths cloud, tops generally 15,900', with occasional cumulus, tops to 25,000'. Good visibility. Intermittent contrails, ceasing above 24,000'. Half moon. L . t ... 4 - 4 - 8 4 Wind at 20,000':- 270%40 n.p.h. at 25,000' .- . 260°/60 m.p.h. 1.2. 4.4 Surface wind at target :- light W. 3. W. 1.1 1 . tom . 1.13 " 1 . Night Photographic Statistics. 10. Only 9 photographs showed ground detail. 3 of these were plotted with 3 miles and 2 outside 3 miles. The remaining 4 are unplotted. Narrative of Attack. Each of the 4 Mosquitoes marked within two minutes of its appointed to 11. so that except for a slight gap from zero + 3 to zero + $5\frac{1}{2}$, owing to the first Mosquito.being early, flares were burning over the aining point from zero - ? until sero + 19. Only 11 aircraft attacked during the gap, and 36 after the flare had died out, 15 of which claimed to have bonbed on release-point flare suggesting that the encary again fired up effective dumnies. The tining of P nain force was good, 123 out of 142 airoraft attacking within the planned perfrom zero to zero + 17. Reconnaissance Reconnaissance sorties flown on 18th and 20th June covered the whole d Oberhausen for the first time since 7th June 1942. The present report there 12. doals with all damage caused in the intervening twelve months by various atta on the neighbouring areas of Duisburg and Bilhein. Oberhausen itself had p /..... previously

reviously been the target for any major operation.

Damage is shown to have been heavy and well concentrated, especially in the ntral area of the town. In the important Gutehopfnungshutte Ircn and Steel the (priority 1+), 5 buildings were affected, 3 of then seriously, while the llsof 2 cooling-towers were demblished. Deutsche Babeeck und Wilcox, beiler ters (priority 1) suffered heavily, with several direct hits on the great main ilding and a number of smaller shops partially destroyed. The Concordia rgbau A.G. coal-mine and by-products plant sustained severe demage to 13 ildings, 3 cooling-towers, the power-house and transport and conveyor facilities d was apparently inactive at the time of photography 32 days after the attack. ther industrics affected include factories for making chemicals, glass, zinc d tar, 2 more coal mines, the marshalling yards at Oberhausen and Osterfeldd (priority 1), railway repair shops, the tran depot, the municipal electricity rks, a gasholder and several warehouses. It least 7 direct hits were scored railway tracks and a bridge carrying the branch line over a road in the stern district was decolished and had already been cleared. The main post fied, the Reichsbank and the Rathaus were severely damaged, several buildings lenging to mitted camps were gutted and nearly 1700 houses were destroyed or dly damaged. The nest notable area of devestation, S. and W of the Haupt shof, covers 35 hores.

2 direct hits were also observed on the august Thyssen steelworks at lhein.

The second s

1 . 3%

telligence Information

10.00

a report from a scoret source stated that cutput in the Baloock boiler-works reduced by 30-35 per cent.

cial Equipment.

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(a) <u>Obce</u> All 4 Obce Mosquitces attacked within 2 minutes of their planned res, The marking is believed to have been accurate, although there is no tographic confirmation. The 2 reserves reached the target, but were not wired. All returned wafely.

(b) <u>CEE</u>. The Eastern chain operated on the Virginia frequency throughout raid and on the Zanesville (Targot) frequency between 00.30 and 01.45 hours. average range obtained on the outward route was 250 miles and on the homeward to 245 miles. Only one navigator got a fix to the target. This was due tly to the weakness of the A-signal on the target frequency, and partly to the reased amount of jaming on this frequency. The jamming was of the same type that reported on recent previous raids.

ornative Targeta.

4 aircraft bonbed alternative targets, 2 in the area of Oberhausen and one at Krefeld and Duisburg.

ant.

Ty Defences

(a) <u>Pick and Searchlights</u>. The only defences operating cutside the Ruhr on night were at intwerp, where heavy flak and 20 searchlights went into action. Ast outbound raiders. In the Ruhr, intense predicted heavy flak supported Derous searchlights was reported at Krefeld, Dusseldorf and Grevenbroich, all as over Oberhausen itself, where the defences, though slow to open up, tased throughout the first part of the attack. Barrage fire was also rently in action over the target; little light flak was observed.

37 aircraft, or 10% of the total force, were danaged by flak. No less than f these were bombers of 5 Group, 27% cut of a total of 108 for that group. I noticeably large percentages were probably due to the use of only one type ircraft bombing from a narrow height band, and to the skyparking technique h probably induced barrage fire round the markors.

/.... (18)

18. + (b) Pighterd. Intercepted wireless traffic suggests that visibility & cloud level was sufficiently good for enony fighters to obtain visual contacts easily. This explains the comparative success of the few putrols operating, Of the 13 patrols active against the raid, 5 made 14 attempts to intercept to 5 viotories were plained, and a further 3 were indirectly reported.

48 interceptions were reported by roturning banbers. 12 of these develo into attacks, and a further 11 into combats in which the bombers alone fired. There was one following. 523 of the interceptions were on outbound aircraft. This unusually large proportion was probably due to the routeing, which brough the raiders back over areas where ground controlled fighters were less active.

4 of our bombers received damage in fighter attacks. :

283

Casualties

22.04

19.	No.	of	aircraft	nissing				17 (
	u	n	*	Carsaged	(c.)	flak	7.	
					(b)	fighters	4	. 43
	122	ê 18	that is a set	308 fS	(0)	other causes	2, .	- 4

Observations by orews suggest that 5 of the missing aircraft were shot down t flak and 9 by fighters. The flak losses were probably incurred at intwerp, Oberhausen (2) and imsterdan, and the fighter losses at Gilze, Weert and Room (2) on the outward journey, Oberhausen area (3), and Emperich and Erkdenz on roturn. Our orews reported the destruction of 3 Ju.88's and one Me.110 and damage to 2 Ju.88's. One aircraft was damaged by British amunition.

COLOGNE

20. 2 Mosquitoes of 8 Group, equipped with Obee, carried out a harassing re on Cologne. One attacked according to plan, and the other visually due to failure of the precision device, No incidents were reported, and both return undamaged.

LINEL YING.

21. 29 Stirlings and Wellingtons of 3,4 and 6 Groups were detailed to lay off the French Atlantic coast, from Brest to the Gironde Estuary. Weather conditions were good, with 5-8/10ths cumulus (base 2,000') and clear visibil despite showers. 25 aircraft reached their targets, laying 59 mines. Int flak was reported from several points, and 4 mircraft were damaged, 2 of the seriously. Encoy aircraft confined their activity to 1 approach.

One Stirling did not return from the Gironde, but there is no evidence account for its loss.

APPENDIX.

Timing of Attack

Pathfinder Force

Mosquitoes attacked at: 0113, 01201, 01251 and 01281.

Main Force

123 aircraft attacked within planned period (0115-0134).

19 airoraft attacked from 0134-0146. 142 airoraft

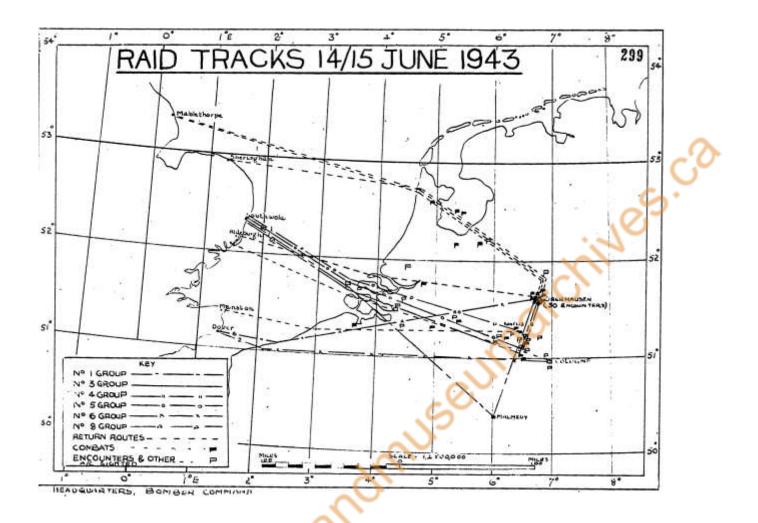
Bonb Loads ...

1.40

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b Loads

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EUCAT OBERTALISSEN	Gibber	1943.		AREA			NOT OVISE ENDALY TUBLE		PLax	PICHTIS	HOT B/4	ATLCX- ED	NOT LTTACK- ED	H. E. Inc.	
LOCAT	Gibber		6 24	4 19	AREA	THER.	NOT OVISE ZNEALY THER. 3	ALSOD	PLux.	PICHTIS	8 HOT 8/4-	ATLCX- ED	NOT	К. К. Inc.	
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BOMB PLOTS NOT AVAILABLE

COPY IN. 16

BORDER CONDIAND REPORT ON MIGHT OPERATIONS, 15/16th JUIE, 1943.

ERLIN.

SULL LARY .

6 Mosquitoes were sont on a harassing raid to Berlin. 5 attacked the target good weather conditions from 24-28,000'. The other aircraft returned early for chnical reasons. No casualties were sustained, apart from 2 minor instances of a damage.

corological Forecast. .

Nidnight frontal positions: - occlusion from 59°N.022°E. to 55°N.022°E to E. England to N.W. France.

Bases:- Frequent thundery showers over N.W. England and Welsh mountains all ht, over East Anglia till midnight (with local thunder) and over S. North Sea till O. Cloud amount is uncertain, but good breaks to loss than 4/10ths are expected N.E. and Hidlands. Visibility mainly good, but loss than 2,000 yards towards dawn smoky localities.

Gormany: - Thundery oloud in N.M. with tops above 20,000'. Probably some of breaks. Central Germany: broken convection and layer cloud. S. Germany: riable amounts of layer cloud. Berlin: 4-7/10ths cloud, good visibility. M/10ths cumule-nimbus on route over North Sea and Holland, some tops above 20,000'.

N.W. France: - Heavy showers. Good visibility. at 300 mb. Winds to Berlin: at 500 mb. 290°/30 n.p.h. 230°/30 n.p.h. 300⁰/40 n.p.h. 270⁰/40-45 m.p.h. 230⁹/70 n.p.h. Bages to 02°R 02°E to 10°E 230°/35 n.p.h. 10°E, to Berlin ior. No. of aircraft despatched . roporting attack on primary area "abortivu sortios (technical defect). . airoraft uissing. . ther Experienced.

Borlin: - 7/10ths layer clo., tops 15,000'. Good visibility. Three-quarters

y Defences.

Very alight opposition was encountered from light flak and a few searchlights. fighters were observed.

..../Casualties

Casualtios.

2 aircraft sustained minor damage from flak on route. All returned safely 6.

9.9

HLY/IV. BC/S.26342/1/OKS. 16th August, 1943.	To o Bo
<u>16th August, 1943.</u>	Вс () Н. 3.
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HOST SECRET

NIGHT RAID REPORT NO. COPY NO. 16

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BOMBER COMMAND REPORT ON NIGHT OPERATIONS 16/17th JUNE+ 1943.

COLOGNE : Berlin : Leaflets.

SUDMARY

COLOGNE.

A force of 212 heavy bonbers attacked Cologne, which was sky-marked by Ytype aircraft. The raid was scattered, and the resulting damage not great, although it included the destruction by fire of buildings of the Chemische Fabrik Kalk A.G. 14 bombers failed to return, probably about two-thirds being lost to eneny fighters.

Berlin ...

2. "Berlin was attacked by 3 Mosquitoes which returned undamaged. <u>icaflets</u>

Leaflets

). 1. Training Groups despatched 4 Wellingtons to drop leaflets on Paris. completed the task, and all returned safely. A

Meteorological Forecast.

.

Bases :- A warm front approaching W. Ireland 1 not expected to affect home bases tonight. Convection cloud will disperae steadily after dusk, and veather will become fine, with moderate to good visibility. 1 100000

Germany: - North Sea doastal strip: cloudy, with a few breaks. Inland from 5-10°E. and N. of [OII: well broken layer cloud formed from dispersing convection cloud. Ruhr: -7-9/10ths convection cloud persisting well into the night, with peaks to 20,000'. Broken low cloud, 8/10ths in Dortmund area, 5/10ths at Cologne. Royte to Ruhr: thundery showers, convection cloud with tops to over 20,000' locally. E. and S. Germany: much convection cloud, with local thunders torms. · · · · · · -

France :- Broken layer cloud, thickening to 10/10ths in Brest-Lorient area.

1.1

COLOGNE.

Plan of ... ttack

5. Zero Hour 0100 hours.

Period of attack 0100 - 0116 hours.

.

17 Y airoraft were to drop green steady warning flares at 51 05'N. 06020'B 29 miles short of the release point. Release point flares (red with green stars and one white for longer burning) were to be dropped by 3 Y aircraft at zero hour and thereafter by single Y aircraft at regular intervals between 0202 and 0113 hours. The main force was instructed to ain their bombs at the centre of the releasepoint flares on a heading of 117°H and at an I.A.S. 165 m.p.h. with bombsight set for true height, Airspeed and zero wind. Main force crews in Y aircraft might bonb on H2S for practice purposes. All fu is were to ignite at . 18,000'. The Y aircraft were also to mark the alming point with green T.Is; if these proved visible through the cloud they were to be nimed at in preference to the sky markers.

The Main Force carrying nixed loads, was to be divided into four sections (0100-04, 0104-8, 0108-12, 0112-16) with specially selected orows leading the attack. It was impossible to use OBOE on this night as the system was in course of being modified to lik.I.K.

/ Bomb Loads.

1. J.

6.	10 Halifax (Y).	• .:	4 T.I. green (2LB) + white) + 4-flares gr	$\frac{1}{0} (3 flare)$	s red/green	+ 1
	6 Lancasters (Y)	•	4 T. I. green (2LB) + . white) + 4 flares gr GP. + 3 x 500 MC.	14(3 flares	red/green +	1 1000
Rout	. .		17		13,	

Sorties

8.	 (a) No. of aircraft despatched (b) " " reporting attack on primary area 	
	(o) " " " " " alternative area	
	(d) " " abortive sorties (technical or manipulative defect	18)
	(icing	
	. (attacked by fighter	1)
	(e) * * aircraft missing	14(6

Weather Experienced

9. Bases: - Broken cloud dispersed gradually after dark. Visibility moderat poor very locally towards dawn.

Cologne and route:- juch layer and convection cloud with breaks; 7-10/10 layer cloud, tops about 15,000', some curulo-nimbus, tops to 25,000'. A few reports of dense and persistent trails chove 20,000'. Slight to moderate icing was encountered on route in cloud (which dispersed on the way home over the North Sea) with occasional thunderstorms. Visibility over target: good. Full moon.

Wind at 20,000': 300°/60 m.p.h. near target. 300°/20 m.p.h. over North Sea.

Surface wind at target: W.S.W., 5 m.p.h.

te

Night Photographic Statistics

10. ... No photographs with ground detail were returned on this night.

Narrative of Attack

11. The green warning flarcs released by the Y aircraft apparently were widely spaced, and some were reported in the target area. The subsequently inaccurate release of the sky-markers and green T.I's resulted in scattered bombing, which may have been aggrevated by one marker aircr. t which accidentally released all markers with its warning flarcs, and by decoys resembling red T.I's which were ignited in the presumed target area. In addition, many of the Y type aircraft had unserviceable statial equiptent, and the marking was consequently indequate throughout the raid. The scatter of the raid was confirmed by daylight reconnaissance, a laugh the Photographic cover was incomplete.

Daylight Reconnaissance

12. Photographs taken after the raid covered only the eastern bank of the Rhine and the N.W. part of the town. Senttered incidents of using to industrial and residential property were seen throughout the meas dovered. On large building and six smaller buildings of the Chemische F. original lk A.G. were

...../gutted, and a

24 - Jr.

3.

atted, and a new building adjoining the factory, and covering about $2\frac{1}{2}$ acres, " as also burnt out. On the site of the Kolnische Gummifaden, which was ampletely destroyed in an earlier raid, a large new building was gutted.

Iternative Targets

3. 6 aircraft attacked alternative targets in the areas of Munchen-Gladbach 3), Antwerp, the Hague and Haamstede.

pecial Equipment

4. (a) <u>H2S</u> 21 Y-type aircraft took part in this raid, 16 being detailed as markers. One marker aircraft returned early, another released its load of markers and bombs with its green steady warning flares owing to the distributor being modified, and a third jettisoned its bombs before reaching the target wing to flak damage. Of the remaining 13 aircraft, all of which attacked the arget, 7 released skymarkers blindly on H2S, one dropped H.Z. only, having been it by flak, and 5 bombed visually, but did not drop sky-markers, owing to mserviceable equipment. Green T.I's were released by 6 aircraft on H2S and one isually. In consequence the marking, which did not begin until zero + 6 minutes, ms neither adequate nor continuous. One of the 8 Y-type aircraft which attacked with the main force, bombed blindly on H2S as no markers were visible.

15. (b) Gee The Eastern Chain operated on the Virginia frequency throughout the raid and on the Zanesville (target) frequency from 0030 to 0130 hours. The werage range on the outward route was 245 miles and on the homeward route 255 tiles. The ranges on the Virginia frequency have increased, while those on the arget frequency have decreased, the two best fixes being obtained on the dirginia frequency. The B and C signals were sufficiently strong to be seen wer the target by many navigators, but the A signal was lost much carlier. It is not known whether the limiting factor to receition on this occasion was signal wakness or jaming.

meny Defences

16. (a) Flak and Soarchlights The target defences fired mainly barrage, but some unseen predicted fire up to 22,500 feet was also reported, and there was a little light flak to the south of the town. Owing to cloud, which was 7/10-10/10 over Cologne, searchlights were ineffective. On the route, moderate heavy flak with a few searchlights was experienced at antworp, Neustadt, machen, Ulzen and Schouwen. 15 mircraft were damaged by flak, mostly over the target.

7. (b) Fighters Intercepted wireless traffic indicated that the main Fighter defences were centred on Gilze and over the Scheldt estuary. Patrols were airborne during the outward journey, but the majority of pursuits were gainst'returning bombers. During the night 7 patrols operated, undertaking 16 Pursuits, and claiming 6 victories. Two of these claims agree with crews' beervations of aircraft shot down over intwerp.

Returning aircraft reported 40 interceptions by encay fighters. 11 acchers were attacked, 6 more fired on fighters, a further 22 were approached, and me reported a following. It is significant that on the outward journey, the interceptions included only 2 attacks, whereas returning boobers were attacked times in 13 interceptions. This extremely high attack/interception rate in the later stages of the raid was probably due to improved fisibility during the eturn when cloud was dispersing and the moon was fully **rison**.

8 aircraft were damaged by fighter attack, 7 while home-bound. The eighth rashed after sending out a wireless message, and the crew were killed; no wither details are known.

sualtics

8.	No.	of	airore	ft nissing			14 (6.63)
	. 1	*		damaged.(a)	flak)	
100		3	1	(0)	other causes 1)	
6 72						/ch	servations

Observations by crews suggest that 4 of the missing aircraft were shot down by flak, one outbound at anchen, one over Cologne, and 2 homebound over Duren and Antwerp. Pighters destroyed at least 6 aircraft, one outbound over Antwerp, one over Cologne, and 4 homebound over Venlo, St. Trond, Antwerp and Walcheren. In view of the relatively large proportion of fighter damage and interceptions it is likely that the other 4 missing boubers were also destroyed by enemy aircraft.

One Lancaster shot down a Ju.88 over Schouwen, the report being confirmed by observations of other crews.

One aircraft was scriously damaged on landing.

BERLIN

19. 3 Mosquitoes bombed Berlin from high level, on E.T. A. owing to cloud. Each load contained one delayed-action bomb. No results were observed, and all the aircraft returned without incident, although one interception was attempted.

LEFLETS

20. Leaflets were scattered over Peris by 3 of 4 Wellingtons of Training Groups despatched on this mission. The fourth aircraft returned early owing to a technical defect. One Wellington sustained minor flak damage.

APPENDIX

Tining of Attack

de la

I. (a) Pathfinder Force

1. 3.1

13 Y-type aircraft attacked at 0105, 0106, 0107, 0109(4), 0110, 0114, 0115(2), 0118, 0119.

(b) Main Force

Atta	cked one mini	te early	
	mithin plan	ned period (0100-0116	
	1-8 minutes	late	
V		72. (C	151

One main force aircraft crashed on the return, and the time of attack is unknown.

Book Loads

Π.

(a) Pathfinder Force

1. + flares + H.E. 13

(b) Main Porce

H.E. + 30-1b	. inc				7
H.E. only				·····	·· <u>10</u> 152
BC/S. 26342/1/ORS3. 4th.September, 1943.		đ Vite	7. •	8	

	1	1	0	A/01	REGREDE	ABORT	WE SORTLES	Internet	-	DATACE		DITERCE	PTIONS	RISSOL/2
ZARGET	GROUP	TYPE	SORTLES	ATTA PRDS. AREA	ALT. AREA.	OVER ENERT	NOT OVER EXEMP	MISSING	PLAK	FICHTE	NOT E/A	ATTACK- ED	NOT	H.E.
COLOGHE	8 1979	Hal.Z Hal.IA	46	36	1	TEER.	TERR.	1:	1 2	1	:	12	<u>80</u>	P. 425.2
	8	Lanc.III	6	4	1	-	1	1	3	140	-	1:	+	Heavy Bo
	MATH MCRCB 1	Lanc.III	29 18	23	2	-	1	3	2+ 140	24C 18	-	4	2	P. 2
		Lanc-III	58 35	13 45 29	-	-	10	3	-	18+ 1g 1.40	1.40	2	8	N. Peon Prin
COLOGIE	1.148	lano.III	44	33	6	2	4 7 25	4	1	1.00 5.00+	-	1	4 10 29	Hecarried nissing
BERLIN	8 2929	Mosq.IV							1.40	28+ 1E	- S	1		
2007.08 	Sector 1	Woed+TA	3	3	-	-	-		- 14+	- 5C+	-	-	1	Tons of H.E. 2.
LALPLATE	TOTAL		215	168	6	2	25	14	1,42	28+ 1E	120	11	30	1
PAPIS	92	Well.ITT	22	1 2	2	1	1	1	1	2	2	:	17	
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	4 L		Seas 1		10.2		26		15+	SuC+	1985			
	000		RA	ID TR	ACKS	AND B	OMB PLC	TIL DTS NO	T AV	AILAE	BLE	.0	^Q	Z

NIGHT FAID LETORT NO. 354

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BOYBER COLDAND REPORT OF NIGHT OPSILTIONS, 17/18th. JUNE, 1943.

Eerlin: Ruhr: Cologne.

SULFARY

1. 4 Mosquitoes of 8 Group were despatched on a harassing raid against Berlin, and one each to Duisburg, Dusseldorf and Colgone. 4 aircraft attacked their targets, while a fifth, experiencing technical trouble, bombed Gustrow airfield. Results were unobserved. All returned undamaged.

Meteorological Forecast

2. Midnight frontal position :- occlusion from 56ⁿ. 10^oW. to Cork to Brest to Le Havre to 49^oM.06^oE., become market to 46^oM.10^oE. and cold to Dijon to Fordeaux.

Bases:- 4-8/10ths convection at duck, base 2-3,000', tops 10-12,000', soon dispersing to nil except in N. Males. Local snoke. Moderate visibility.

Cermany:- N.W. coastal strip: conversion with a few breaks. Ruhr: 10/10ths frontal medium cloud, with broken convection below. . . of 51 N. and E of 09°E.: broken convection and layer cloud. S. Germany, E. of tarm front: low cloud and rain.

France:- Belt of cloud and rain in N. along occluded front. Much low cloud in warm sector in S.V. Broken layer cloud between fronts.

Sorties

3.

(a) (b)	No.	of	aircraft	desp.tche	d	
(b)	n		"	reporting	attack	on primary area4
(c)						" alternative area1
(c) (d) (e)	**	n	abortiv	e sorties	(technic	cal defect2)2
(e)		Ħ	aircraf	t missing.		

Weather Experienced

4. Berlin:- 6-8/10ths strato-cumulus, tops 12-15,000'. Excellent visibility.

Ruhr - Cologne:- 4/10ths cloud, tops 7-8,000'. Excellent visibility.

Full moon.

Enemy Defences

Considerable but inaccurate heavy flak, co-operating with searchlights, was encountered from the N. and S.W. outskirts of Berlin. No opposition was net from the Ruhr or Cologne.

50 sorties by controlled energy fighters were heard, 6 of which mentioned British aircraft. They optrated in the areas of Woensarecht, alkmaar/Zwolle, Tezel and the Lutch islands. No interceptions were reported by our aircraft, apart from one approach.

Cosulties

. All our aircraft returned managed.

EC/S. 263.2/2/ORS. 21st. August, 1943.

Image: http://www.thtp:/
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BONBER CONDIAND REPORT ON NIGHT OFS ATIONS, 19/20th. JUNE, 1943.

LE CREUSOT and MONTCHANIN: Ruhr: Hinelaying:

SUMPARY

LE CREUSOT AND MONTCHANIN

A force of 316 heavy bombers set out to attack the Schneider Works and the Breuil Steel Works at Le Creusot and the transformer station at Hontchanin. Both targets at Le Creusot were successfully illuminated by Y-type aircraft, but glare and amoke from the flares obsoured the aiming-points after 10 minutes, making accurate bomb-aiming impossible. Severe damage was caused to the Le Grousot Steel and Processing Works, the Locodotive and Armament Works and the Breuil Steel Works, but nearby residential property was also badly damaged. The Henri Paul et Cie Iron and Bronze Works at Montchanin, which were illuminated and ground marked in error for the transformer station, sustained considerable damage.

2 aircraft failed to return. a total and to the second

_10311 - Marsi and M 🟅

Ruhr

Dusseldorf, Duisburg, and Cologne were the targets for 6 Mosquitoes, 5 of 2. which completed the task successfully. One Cologne sortie returned early; none of the bombers was damaged.

Minelaying

1. See 1. 1.

55 mines were laid in the Gironde Estary and off in rallice by 11 of 12 iancasters despatched. ... The twelf th sircraft failed to return.

All and the second s

gara inin

Meteorological Forecast

1214

· · · ·

Midnight frontal positions: - occlusion from Oslo to 58 %. 16 E., becoming 4. Warm to 55°N. 20°E. to 50°N. 21°E. and cold to 56°N. 11°E., then warm to 55°N. 01°E (tip of warm section), then cold to Spurn to Exctor and S.W'wards.

Bases:- A belt of rain and low cloud will lie along the cold front, the cloud lifting and breaking to the N.W. Bases will be in the warm sector for most of the night, with strato-cumulus forming (base 1,000-1,500'). Visibility will be moderate to good at dusk. For return (from Le Crcusot), 4 and 6 Groups may meet frontal conditions in the neighbourhood of S. Yorkshire, with rain and 10/10 the cloud, base 800' and tops 15,000', freezing level 6,000', visibility 1-3 miles. 3 and 8 Groups will have 7-10/10 the stratus at 1,000' - 1,500', apart from a few lower patches over high ground. Diversions to 5 Group, N. of 92 Group and W. of 93 Group.

Germany: - Well broken layer cloud in N.W., disporsing towards S. and E. Buhr:- 4-7/10ths. broken strato-oursulus, base 1,500'-2,000', tops 4,000', with rodium cloud layers above. Winds, 45-50 m.p.h.

France: - Much strato-cumulus in N., base below 1,000'. Good clearances in Central France, well broken medium and low cloud in S. Le Creusot :- little or no low cloud, chance of broken medium and high cloud above 10,000'; visibility moderate to good. Route: variable broken strato-cumulus at 1,500-2,000', increasing and lowering to 8-10/10ths. stratus at 1,000' or below over Channel, but lifting and breaking towards the target. W. France:- 10/10ths. stratus at 600-1,000' in N., with coastal drizzle. Well broken strato-oursulus above 1,500' S. of La Pallico, with moderate visibility.

...../Winds:

· · · ·

2.

750 mbs:

/60-65 n.p.h. /50-55 n.p.h. /25 n.p.h. /25 n.p.h. /25 n.p.h.

r.of 53°N.	2300/55 m.p.h.	230
S. of 5301.	240º/45 m.p.h.	240
5191 - 4997.	250°/35 n.p.h.	260
49"N - Le Creusot	270°/20 n.p.h.	280
Le Creusot	270 /10 m.p.h.	280

LE CIEUSON - MONTCH. IN

Plan of Attack

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Vincat

Zero hour - 0145 hours

As navigational aids on route to the targets, 24 Y alteraft were to drop green steady flares at 49°20'N. 00 45'E., yellow T.I's at 47°30'N. 01°10'E., and red T.I's at 47°05'N. 03°10'E. On the return trip, the same aircraft were to drop red T.IIs at 48°00'N. 02°02'E.

At 0144 hours 6 Y aircraft were to release long sticks of white flares (6 bundles at 6 second intervals) blindly on H23 over the Schneider Works at LE CREUSOT. This illumination was to be contineed by 20 more Y aircraft, 2 at zero hour and 1 per minute thereafter until 0203 hours, also releasing white flares similarly but after definite identification of the aiming point, and dropping their bombs on it. There were two aiming points for the main force, and orews were to find their own specific aiming-points in the light of flares and to attack from as low a height as possible above 4,000ft. Emphasis was laid on the need for hitting the target and not the nearby residential area.

The Y aircraft were, after illuminating Lo Creusot, to proceed to MONTCHANIN, where they were again to release bundles of white flares at 6 second intervals along the southern edge of the power-station while in a left turn of J^o per second. At 0147 hours, 6 Lancasters, after definite identification of the uiming point, were to drop green T.I's on it. The illuminators, markers and main force orews were to aim their bombs accurately at the aiming point, using the green T.I's as a guide.

Two or more bombing runs were to be made by crews at each target, in order to reduce the length of the stick of bombs. All aircraft were to turn for home by 0215 hours whether they had bombed or not. Fighter cover was to be provided over the Channel on return.

Bomb Loads - P.F.F.

6. Illuminators - 14 Stirlings: 10 x 3 flarcs white + 1 T. I. yellow (LB) + 2 T. I. red (LB) + 8x500 MC + 1 flare green.

> 10 Halifaxes: 9 x 4 flarcs white + 1 T.I.yellow (LB) + 2T.I. red (LB) + 3 x 1000 MC + 1 flare green.

> >/Sorties.

2 Halifaxes: - 10 x 4 flarcs white + 6 x 1000 MC.

Markers - 6 Lancasters: 1 T.I. gi cn (LB) + 8 x 1000 HC.

Route

7. Base - 49°20'N. 00°45'W. - 47°30'N. 01°10'E - Le Crousot/Montchanin - turn left - 49°20'N. 00°45'W - base.

Sorties. (a) No. of aircraft despatched (Le Creusot only . . 264 Montchanin only . . 316 (Both targets . 26 reporting attack on primary area (Le Creusot . 275 300 (ъ) (Montchanin . 45") (95.0%) (o) • alternative area . (0.63) (a) • abortive sorties (technical or manipulative defect hit by flak . . . 12 target hidden by smoke . (3.8%) (crashed on take-off (e) " " aircraft missing . (0.6%) (" including 20 aircraft which attacked both targets) eather Experienced. Bases :- Variable amounts of layer cloud, base 1,500-2,500 Patchos of stratus below 1,000' affected S. Midlands after midnight. Local fog or mist patches in London area. Otherwise, moderate visibility. Route:- 8-10/10ths layer cloud over S. England, breaking up over Channel and . France. Moderate visibility. Le Creusot - Montchanin :- No cloud. Moderate visibility. Moon nearly full. ind at 4-6,000' = 230°/20 m.p.h. Surface calm. ight Photographic Statistics. 0. No. of photographs examined . 260 No. of photographs showing plotted within 3 miles . . 201) outside 3 miles . Nil ground detail 206 unplotted . showing fire-(plotted within 3 miles . . tracks outside 3 miles. (unplotted . aircraft roporting attack . 300 estimated, from the photographic evidence, I. have bombed within 3 miles of the aiming point . . 252 Tative of Attack. At Le Crousot both targots were successfully illuminated by Y-type aircraft, but the attack progressed glaro and smoke from flares obscured the aiming points, making furate bomb-aiming impossible. Several aircraft wrongly identified the target, ing at the Steel and Processing Works, which were at one time believed to be in-tive, but which may have been operating at the time of the attack. All the photophs plotted were within 3 miles of the target, but owing to the smallness of the Feet it was estimated that only about 21% of the bombs fell within the perimeter of

The markers and illuminators appear to have mistaken the Iron and Bronse Works Benri Paul et Cie at Montchamin for the transformer station, and this was bombed in majority of the Montchamin sorties. The few aircraft which did correctly identia. target, apparently failed to hit it. As at Le Creusot smoke and flare from the mos obscured the target area.

works.

..../Daylight

3.

Daylight Reconnaissance.

12. Much damage was seen in all parts of the Schneider Works and the Breuil Wo at Le Creusot and at the Henri Paul Works at Montchanin. Damage was fairly even distributed over the whole area, and in consequence there were no large areas of devastation.

7 buildings of the Le Creusot Steel and Processing Works were destroyed, 4 seriously damaged and 7 others damaged. These included the Steel Foundry, which was almost entirely destroyed by H.E. and fire, and the building: containing the electric furnaces, which was damaged by H.E. over an area of 4,000 square yards. the Locomotive and Armament section of the works, 31 buildings were involved, of which 4 were destroyed and 9 severely damaged, including the shop for autogenous wedding, the turbino machine shop, and the rolling mills.

In the Brouil Steel Works, 4 main shops were affected, 61 acres of the res of the general machine shop being damaged by blast. The main building of Henri F et Cie at Montchanin was seriously damaged and several smaller buildings were affected. No damage to the Montchanin Transformer Station could be seen.

Considerable damage was caused to residential property both east and west the Le Crousot Works: this included 11 large buildings and about 130 business or residential buildings destroyed or damaged.

Alternativo Targots.

13. Two aircraft were unable to identify their targets at Lo Crousot owing to a de one attacked Montchanin and the other an unspecified target near Briare.

Special Equipment.

14. (a) <u>H2S.</u> 44 Y-type aircraft took part in the attacks on Le Creusot and Montchanin. H2S was used mainly as a navigational aid, but 6 aircraft were detail to drop illuminating flares blindly across the Schneider Works at the beginning of 71 attack. Only 3 aircraft, however, used H2S for this purpose, while the others, together with all other illuminators and markers, identified the target visually, b I. at Le Creusot and at Montchanin.

15. (b) GEE. The Bastorn Chain operated on the Virginia frequency throughout the raid. There was no interference, and signals were visible at all stages of the raid 72% of the force obtained fixes at the target, 415 miles from the Master Station. this route was last used, during the roid on Spezia on 18/19th April, considerable in interference was reported, the average range being only 200 miles. It therefore a probable that the jammers had been moved to strengthen the defences on the route to the Ruhr.

Enomy Defences.

16. (a) <u>Flak and Searchlights.</u> Apart from the target areas the most severe opposition was encountered over the French Coastal area bounded by Lo Havre, Pointe la Percee and Argentan. Light flak was reported from these 3 places, from Flors, Mans, and South of Orleans and from Geen, where heavy flak and searchlights were all in action. At Le Creusot the defences were even less than expected, being only ab-12 light guns and 6 modium guns, with the occasional ineffective co-operation of op searchlight. 2 or 3 light flak guns were in action at Montchanin. 9 aircraft (2.8 on Le Creusot were damaged by flak and one of the 26 Lencasters which attackod Montchanin was also hit.

17. (b) <u>Fightors.</u> Intercepted wireless traffic indicated that 2 unlocated patr which were operating undertook 4 pursuits. There was one doubtful claim of a victo: Roturning aircroft reported 24 interceptions, including 12 combats (2 attacks). The appear to have been distributed evenly between the Caon, Chartres and Le Crousot are No bomber was damaged by fighter attack.

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..../Casualtios.

5.

Casualties.

18.	No.	of	simes "t	missing	:.	• •		۲	·	0.47			2 (0.6%)
		-	•	danagod	(a) (b) (c)	flak fighter other ca	a . auses	:	10) Nil) 3	•	٠	٠	13 (4.1%)

Observations by or. suggest that one missing circreft was shot down by light flak at Caen and the other came down near Chartres, the cause being unknown. A third aircraft creshed near York oon efter take-off; all the crew were killed. A Stirling was damaged by fire from a British aircraft, and another by incendiary bombs.

An Me.109F was shot down in mid-Channel by a Halifax on the outward flight.

Dusselderf, Julsbury and Colo; c.

19. 2 Mosquitoes, each carrying one delayed action hamb in his load, were des-patched to each of the 3 uities of Dusseldorf, Duisbur and Cologne. 5 aircraft sttacked from high 1 vel, but one Cologne sortic was a cortive ming to a technical defect. No results were observed. All the Mosquitoes returned undamaged.

Minelaying.

9 Lancastors of 3 Group laid 45 mines in the Girondo Estuary, and 2 of 3 20. Lencasters despatched to La Fallice laid 10 mines. One aircraft was ceriously deraged in combat with an enomy aircraft; 2 other intercoptions were reported. One ioncaster was missing without trace.

PPENDIX.

Mining of Attack.

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(a) Pathfinder Porce.

(i) Illuminators:- .5 attackod Le Crousot at 0148 (2), 0149 (2), 0150 (3), 151, 0152 (2), 0153, 0154, 0159, 0200 (3), 0201, 0202 (3), 0205, 0205 (2), 0212, 0215. r 20 attacked Montchanin at 0150,0151,0153,0157,0158 (2), 159 (2), 0202(2), 0203,0204, (105 (3), 0207,0208 (2), 0214,0216. .0 1 5

(11) Ground Markers:- 5 Lancasters a tacked Montchanin at 0156(2),0159, 200, 0201.

(b) Main Force (both targets)

Attacked within planned period (0145-0215) 265 4-6 minutes late . 5 . 270 Loads Carried. (a) Pathfinder Force. Plares + T.I. + H.E. 21 illuminators. Flares + H.F. Ŀ T.I. + H.E. ground markers patr. 30 aircraft ricto (b) Main Porce. The H.E. only . t are 30 1b. inc. + 1b. inc.

26342/6/ORS.

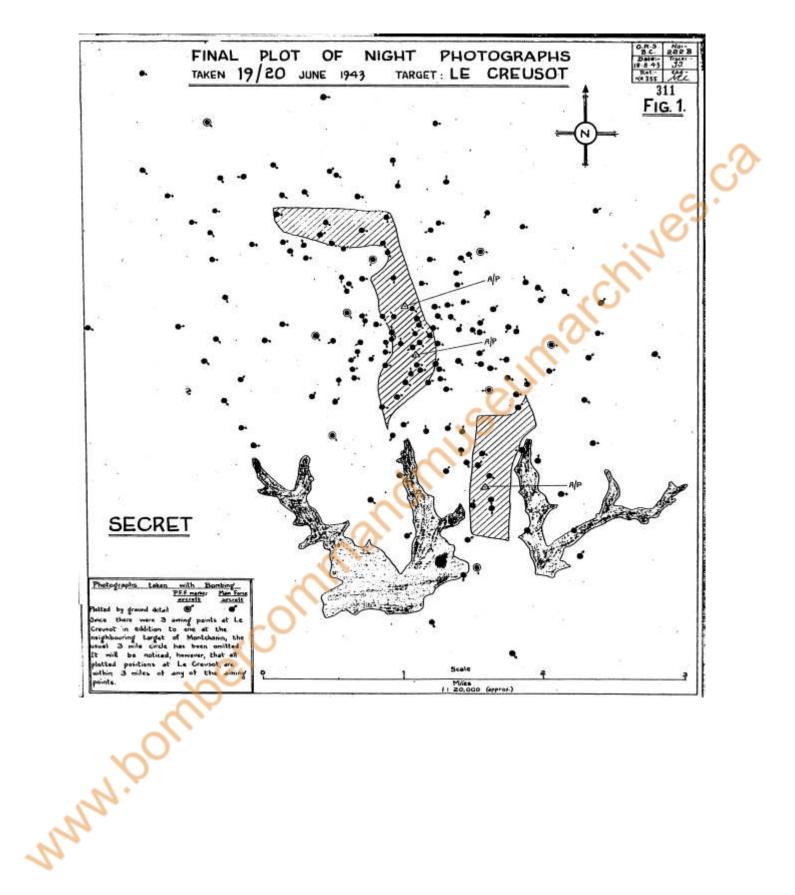
	1		SORTIES		REPORTING	ABOS	TIVE SORTING	MISSING		DIGWEE		DITERCE		Tons of	
TARGET	GROUP	212/2	5081 165	PRIM. AREA	AREA	over Enemy Terr	NOT OVER INENT TERE.		PLAX	PIGHTER	NOT E/4	ATLCX- ED	NOT ATLACK ED	H.L.	Ino.
LE CREUSOT	8	Hol. TIAV	5	5	-	-	-	-	-		•	•			1
LND MORTCHANDN	297	Hal.II-IA	7	(1 [#])	-	1	-	-	್	. .	•	10.53	5		
(ILLUMINATORS)		Stir.I	12	12 (3*)	-		-	-	1.	•	9 7 3		1		
		Stir-III	1	11	12	-	3 4	- 1	-			-	1 H 1	0	
		Inne.III	1	(1=)		-	-	-	•	-	*	-	×.		
TOTAL (ILLUMIN	ATORS)		26	25 (5*)	-	1	-	-	•	-	-	1	-		
LE CHEUSOT	8	Hal.ILAV	8	8	-	-	-	-	-	-		1	1	P. 694.9	50.1
CNUY	NADI	Hal-II-IL	7	6	-	1	-	-	-	-	-	-	1	A 3.5 M 6.3	2.3
	PORCE	Stir.I	6	6	-	-	-	•		-		-	- E - I	M. 6.3	-
		Stir.III	1 1	1	-	-	-	-	-	-	-		1 1 1		
8		Lano.III	1	1:	-	-		+	-	-	-	-		1.	
	3	Stir.I	84	80	1		2	-	104		2.0	1.1	ī	1. C	1
	4	Hal-ILAV	90	85	-	2	2	1	2		18	-	9		
	- A.	Hal.II-IA	22	22		2	100 - Contra 100	- 1	- i	-	-	-	L 12		
- Construction of the second	6	Hal. ILAV	42	30	1	S.=	2	1	1	-	+	-	4		
DNTCHANIN	S PYP	Long.III	6	5	-	-	1	-	-	-	-	-	1	P.103.6	2.8
ONLY	8	Lanc.I	11	11	-	-	-	-	1	-	-	-	1 8	A 1.8	-
	MAIN RORDE	LANG-III	9	9	-		-	-	-	-	-			1	-
TOTAL LE CREUSOT			250	275	2	5	6	2	¢ €	-	124	2	5	1	
1924). 1. TCHANTH			52 (26*)	(20")	-	1 (1*)	1	-	1	•	-	(1=)	1.		
TOTAL BOTH TARGE	rs		316	300	2	5	1	2	1,10		18+	2	22		1-11

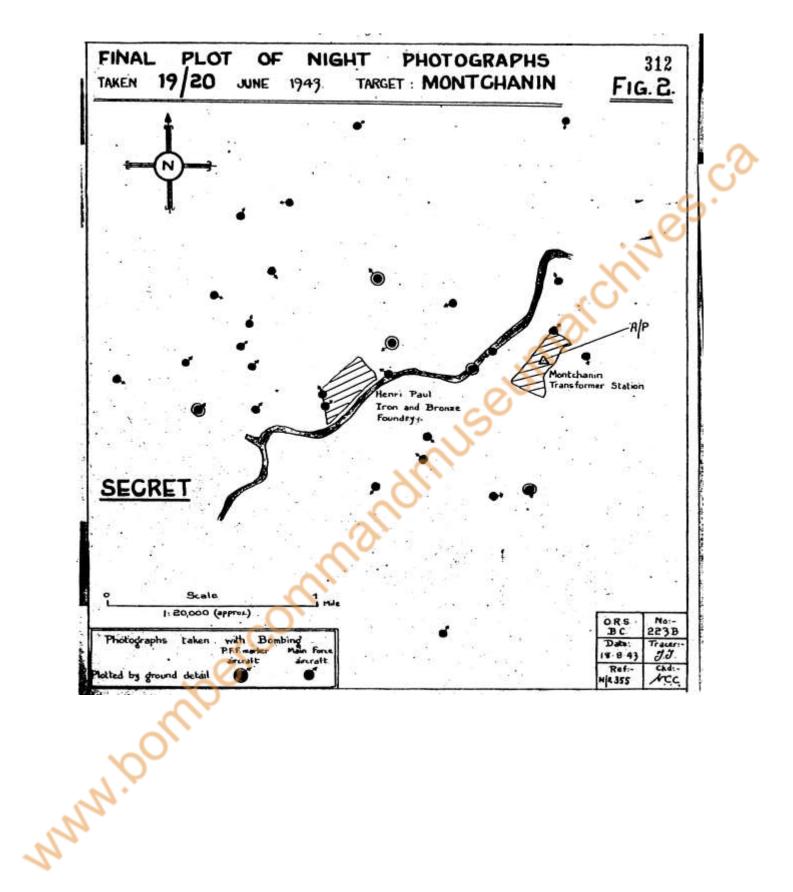
Did not attack Montchanin.
 Included in both is Creusot and Montchanin Totals.

...../(Cantd:)

309

A Real Provide Land Land Land	1	1		A/C RE	PORT DIG	BOR	TIVE SOR LIS	HISSING	De	NICE		INTERCEPT	EPTIONS		RESUL	
LAGET	GROUP	TIPE	SORTIES	PRIM	ATEA	OVER EXENT TERR.	NOT OVER	ALIGO LAG	Flink	FIGHTER	NOT E/AL	ATTAIX- XD	NOT LITLOR- ED		LE.	In
TOTAL LE CRED	SOT JD M	NUCHANIN	316	300	3	5	1	2	9+ 140	•	1E+ 2//C	2	22 .	Π	1	
DUSSELDORP	8	Mosq.IV	2	2	-	-/		-	-	-	-	-	-	P.	1.6	
DUISBURG	8	Mosq.IV	2	2	-	3	D -		-	-	-		-	1	1.6	
COLOGER	8	Mosq.Iv	2	1		1	1	-	-	-	-		1.	₽.	0.8	1
BOMBING TOTA	-		322	305	3	5	8	2	9+ 140	-	18+ 2//C	2	22			
MINELAYING	3	Lanc.II	3	2		-		1	-	-	-		-		nine	
CIRCINDE	13	Lone.II	9	9	* -	-	-	-	-	1.0	-	1	2	-	5 aine	
MINEL/.YING	TOTAL		12	11	-			1	- 9+	1.0	18	1	2	5	5 nine	
TOTAL		7	2.5			S		. Princ		0.120.23						
n.c	5	$\langle \mathcal{V}$			RAI	D TRA		AVAILA	BLE							





NIGHT RAID REPORT NO. 356.

1.1

COPY NO. BOMBER CONGIAND REPORT ON NIGHT. OPERATIONS - 20/21 st JUNEA 1943.

FRIEDRICHSHAFEN : Berlin : Dusseldorf : Minelaying : Leaflets.

SUNDIARY .

SE .

FRIEDRICHSHAFEN.

1.1.1

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A force of 60 Lancastors made a successful attack on the Zeppelin factory at Friedrichshafen, which was producing mechanical parts for German R.D.F. and also accustio and magnotic mines. All the target buildings were damaged, several very severely. Controlled bombing was found to produce a good concentration and despite the smallness of the target about 96 of the bombs. dropped fell within its limits; the bombing would probably have been even more accurate if the defences had not been heavier than expected, thus compolling the loador to order the airoraft to attack from a higher level, in a zono where the wind was increasing. - 2 2230

2. For the first time the whole force was ordered to land in North Africa, a ruse which was highly successful, none of the aircraft being lost. Most of the Lancasters returned on 23/24th June, attacking Speria on the way. (See report No. 359).

Berlin and Dusseldorf.

3. Harassing raids on Berlin and Dusseldorf word carried out by a total of 5 Mosquitoos, all of which completed the mission and returned undamaged.

Kinolaying

4. 13 of the 15 aircraft despatched laid a total of 69 minus off the west coast of France, All the aircraft returned safely.

Leaflots

3 Wollingtons of Training Groups dispersed loaflots in Northurn Frence

(a) (a)

FRIEDRICHSHAFEN.

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Targe ;

6. The Zoppelin Pactory at Friedrichshafen, on the northern shore of Lake Constance, was the largest production contro in Cormany for mochanical parts of R.D.F. This is the most difficult part of the industrial program for the cass production of German R.D.F., since the electrical installation is comparativoly small and does not offer any very serious production problem. The elimination of the Friedrichshafun Works would therefore be the greatest single blow which could be given to German R.D.F. The target however was only 200 yards by 350 yards and defended by heavy and light flak batteries and by warchlighte, so that special training to ensure acourate bombing was essential.

Training

7. Crows were solected from all squadrons of No. 5 Group, and given as much training as possible in the few days before the operation. Since the attack as to be controlled by the leading aircraft, or by the deputy leader, R/T and IT control was practised thoroughly. As in the training for the attack on the Whr and Wosor Dans it was found that W/T was entiroly satisfactory but there as much interforence with T.R.1196. There was no time, however, to change ot to V.H.P.

Continuous accurate marking of so small a target would be almost impossible;

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/ thorofore

therefore, when a target indicator was accurately placed, the maximum number of crews should attack incodiately. To achieve this, crews were trained to orbit the target at a distance of 4-6 miles, not more than two aircraft flying at the same height, and to attack incodiately on receipt of the special signal which would be given by the leader when a T.I. was dropped we near or on the target.

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9. It was realised that the target would quickly become obscured by snoke, so an alternative, indirect nothed of attack was developed. Crews practised making a run from a well defined point, sighting on a second point but delaying the release of their bombs for the time taken by the aircraft to fly from the second point to the target (2,000 yards.)

Plan of Attack.

10. The force is to consist of a leader, deputy leader, 2 controllers, 4 P.F.F. aircraft and Lancaster III's with picked grows drawn from all squadrons of 5 Group. All aircraft are to follow the route shown on the attached map and are to land at Algiors/Maison Blanche or Blida Airfield. The return is to be made as soon as the majority of aircraft are fit, and on the homoward route an attack is to be made on Spezic. (See report No. 359).

11. The Channel is to be creased at maximum height, after which height is to be lost to reach Orleans at 10,000 ft. and 05 00 E at 2,500 to 3,000 feet. The remainder of the route is to be flown at this height until the aircraft reach the Rhine, which is not to be or ased before the specified time... From the Rhine to the rendezvous on the northwestern leg of Lake. Constance (see inset to Route Map) aircraft are to climb to their allotted heights (between 5,000 and 10,000 feet) and in arrival there are to make lef -handed orbits until told to nove on to the target, which is also to be orbitted at specified heights until the aircraft are ordered to bomb.

12. The attack is to be controlled by the leader, or, in his absence, the deputy leader or one of the 2 controllers. The leader is to give orders for the method of attack and any changes of height dictated by the situation

13. The leader is to order 2 P.F.F. aircraft to lay a stick of illuminatin flares on a northerly heading, parallel to and on either side of the target. A P.F.F. aircraft is then to release a green T.I. on the target. If the leader is satisfied that this T.I. is accurately placed he is to order all aircraft carrying the Mk. XIV Bonbsight to attack it. They are to do so immediately, approaching from all directions. If the green T.I. falls wide the leader is to order a red T.I. to be released, telling the main force to ignore the green. If the red is also outside the target another green is to be dropped, and so on, dropping green-red alternately, until a T.I. id accurately placed. When the target has been accurately marked, the T.I. is to be renewed about once every 5 minutes, as ordered by the leader, who is to assess the accuracy of each T.I., and tell all aircraft whether it may be bended or not.

14. If the target and the T.Is are obscured by snoke, the leader is to ork aircraft which have not already bonded to make an indirect attack. Aircraft are to start from point A. on the south-eastern corner of Lake Constance, and sight on point B. (see inset to Route Map). Bends are to be released after maiting the exact number of seconds required for the aircraft to travel 2,000 yards, on the same heading, from the point at which B, would have been bembed had it been the target. If, however, the bond-aimer can identify the Zeppelin Shed beyond any possibility of doubt, or can see a T.I. broadcast; by the leader as accurate, he can bond visually, even though the ra from A. to B. has been made.

15. All aircraft dropping T.Is are to approach the target from point A. to B. and then make a timed run, as a safeguard against failure to identify the target. Bonb Loads.

1x4,000 lb. H.C. Load to be nado up with 500 1b. H.C. T.D. 0.025 sec.

3 T.I. Red + 3 T.I. Groon + 16 Plaros White + 2 x 500 1b. H.C. T.D. 0.025 sec.

.

16... Leader and deputy Leader.

2 P.F.F. airoraft

10000

1849 - S.L.

2 P.F.F. airoraft. 2 T.I. Rod + 2 T.I. Green + 32 flares white + 2 x 500 H.C. T.D. 0.C25 sec.

£

Main Force .. .

. Squadron.	Load,
9, 49, 50, 57, }	
44, 207, 467, 619	aircraft fitted with 14 x 500 lb. M.C. T.D. 0.025 sec. Mk.XIV Bombaight.
M 207.)	aimment not fitted Bull incondiary lond - 50 of S.B.C's t

44, 201. with Mk.XIV Bonbsight bo fitted with 301b, and 505 with 41b. incondiaries.

1.1. 4.

Heteorological Forecast

17. Estimated midnight position of fronts: (1) cold from S.W.Norway to Polixstower to Thorney Island to Loriont, (2) cold from 60°N. Of °E. to Valley.

Bases:- Fit at dusk, and at least 50; will be fit all night. A fairly narrow bolt of modium and low cloud will lie along front (1), mainly layored, with isolated cumulo-nimbus cloud penetrating the layors. Behind the front, broken low cloud above 1,000 ft. Periods of rain. Winds will reach gale feroe at 20,000 ft.

Gormany: -. Much high cloud in the Ruhr, with increasing medium cloud. Less than 4/10ths well broken modium and high cloud in extreme south. Friedrichshafen oloudloss. Berlin: Cloudless.

France:-W.Coast: _______ conditions, cloud not bolow 1,500 feet, decreasing to nil S. of Nantos. Paris: much medium cloud, at least 7-20/10ths by 0245, with 5/10ths low cloud below. Possibly thunderstorms.

North Africa:- Fine.

Woather Experienced

18. Basos .- Fair. Moderato to good visibility.

. .

Route: - Thundorstorns over northorn France, clearing south of Orleans.

Friedrichshafen:- No cloud, Excellent visibility. Hoon above the horizon during the attack, 80% of full. Wind: 5-10,000 feet, light; 10-15,000 feet, south-onstorly, increasing.

Sertios

19. .

". " airoraft missing,Nil

V Night Photographio Statistics

Night Photographic Statistics.

No.	of photographs with borbing examined
	ground dotail (outside 3 milosNil)
	(unplottodNil)
n	photographs showing(plotted within 3 miles
81 S	fire tracks (• outside 3 nilesNil)
2 8	(umplottodNil)
	No.

aircraft estimated from the photographic evidence to have bonbed within 3 miles of the aiming point.....

Narrative of Attack.

11:

21. 59 of the force of 60 Lancasters reached the rendezvous without incident but at that point the leader was obliged to hand over control of the operation to the deputy leader owing to failure of one engine. The target was clearly visible on arrival, but the defences were heavier then was expected, and the deputy leader ordered all aircraft to climb 5,000 feet. This unfortunately brought the force out of the area of light winds into a zone where the wind fro southwest was increasing, and also made it difficult for the P.F.F. aircraft to start the attack on time.

22. The illuminating flaros and the first T. Is foll northeast of the target, probably owing to the wind, but the third T.I. (green) was dropped accurately. The deputy leader innediately ordered all aircraft fitted with the Nk.XIV Bombsight to bomb this T.I. Orders were than given to P.F.F. aircraft to dry flaros along the coast to assist the later aircraft to bomb indirectly, and an attempt was made to renew the accurately placed T.I. The renewal was unsucce owing to flak, and the remaining aircraft were ordered to bomb indirectly.

23. After bonbing each aircraft orbitted the target until the whole force of 59 Lancasters had attacked, when they flew in company to North Africa, landing safely at Algiors/Maison Blanche and Blida Airfields.

24. The sixtieth Lancastor, which was driven off track by the thunderstoms in Northern France, lost the main formation, and jettisoned its bombs on an unidentified twom, after being hold in searchlights for 32 minutes. Friedrick hafen was reached about 2 hour after the attack had ended, and this airdraft also proceeded to North Africa.

AD AND STOLEN AND STOLEN

Street Le

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Daylight Reconnaissance.

10.00

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25. Photographs taken on the day following the attack show considerable dana, to the target. The roof of the large Zeppelin hanger, which was probably use as a workshop, showed only niner danage, but part of the south wall was destroy by blast from a bonb exploding either internally or inmediately cutside, where large orater was seen. In addition two large workshops were danaged and 4 cm buildings were partially denolished. 14,000 square yards of the rood of a lar building under construction were destroyed, 2 shall buildings were almost completely wreeked and 2 others were danaged. Nothing was known of the exact function of each of these buildings, but stacks of identified types of radiol: cation apparatus had proviously been seen in the store yards.

26. Danago was also caused to buildings of 2 other factories of the first priority, namely the Maybach Neteronbau G. n.b.h., namifacturing diesel and inter combustion engines and core-engines, and the Zahnrad Fabrik Friedrichshafen A.G producing gears, axles and brakes. At the airfield a large hangar was danaged and a barracks building partially destroyed. 2 dockside warehouses were denot a shed at the goods station half destroyed, and a passenger coach at the main railway station was gutted. 25 houses were wreeked and 9 severely danaged.

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Acouracy of Bonbins

Accourncy of Bonbing.

27. A dotailed analysis has been made of the positions of oraters seen on recommaissance photographs, in relation to the target and to the estimated position of the T.I. which was assessed by the leader as accurate. The everage radial error about the contro of the target was approximately 400 yards, and about the T.I., which was itself 200 yards from the centre of the target (or about 20 yards from the edge), was 200 yards. This indicates a systematic error, which was in fact down-wind, and may therefore have been caused by the increase in height of the attack, which brought the aircraft into a region of stronger wind than was anticipated. The smallness of the average error about the T.I. demonstrates clearly the success of the control exercised by the bending leader, and also indicates that few of the main force used the indirect bonding method.

28. It is estimated that % of the total weight of bombs dropped fell on the target itself.

Gee

29. The Southern Chain operated on the Carolina frequency and the Eastern Chain on the Virginia frequency throughout the raid; there was no separate target frequency. The average range obtained Was 230 miles. Some interference was reported at the French coast, but the peer ranges were chiefly due to atmospheric conditions and not to jaming.

Enony Defences

30. <u>Flak.</u> The Lancasters were engaged by noderate heavy flak and much light flak, and a ring of searchlights round the target was very active. 6 aircraft were damaged by flak, one scricusly.

31. <u>Fightors</u>. 3 Ju.88's seen in the target area node no attack. Intercepted wireless traffic revealed late patrols in the Florennes / Juvincourt area, presunably waiting for the returning bonbers, which, however, flow on safely to ifrica.

Casualtics.

Berlin and Dusseldorf.

33. No. 8 Group despatched 4 Mosquitoes to Berlin and one to Dusseldorf. All aircraft completed the task and returned without danage, although heavy flak and searchlights were reported at both targets and at Hanover. Heavy guns at Krefeld and Wittenzon also opened fire. Results of the bombing were not observed.

Minolaying.

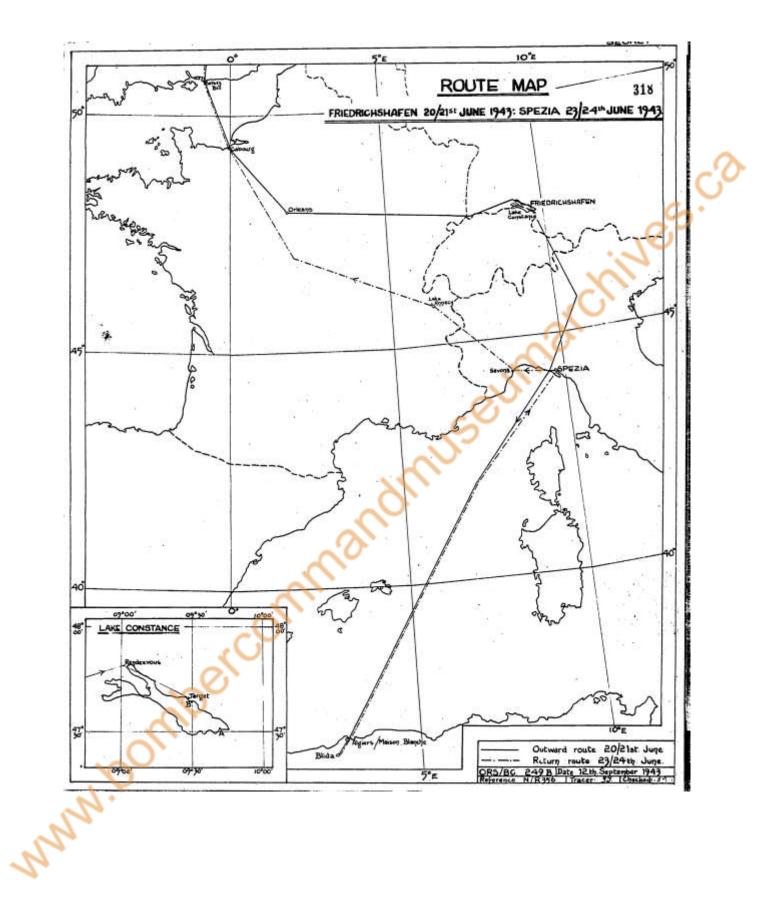
34. 11 Lancastors and Stirlings were dotailed to lay mines in the Gironie Estuary and 4 Lancastors off La Pallico. 13 aircraft completed the operation successfully laying a total of 69 mines, and 2 Gironde sorties were abortive, being unable to pinpoit, One Stirling was seriously damaged in combat but all the aircraft returned sefely.

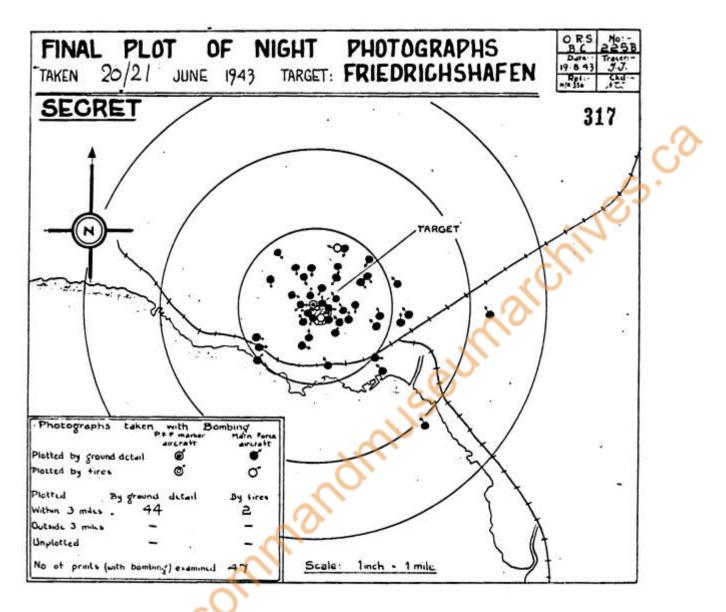
Loaflots.

- - 6

35. Leaflots wore dispersed by 3 Wellingtons of Training Groups in the areas of Reins, Rough and Amiens, and Rennes without incident. 41 3.5 4 ŧ :2 2 -24 ٠. -3.5 • 4 1: -EHO/PVD. . BC/S.26342/5 /ORS. 5. 11th Soptember, 1943. 1 4

19, 19, 40001 33 1
40001 33 1 ms-H.
40001 33 1 me-H.
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www.bonnberk

NIGHT RAID REPORT NO. 357

COPY NO.

BOMBER CONDLIND REPORT ON NIGHT OPER. IONS, 21/22nd. JUNE, 1943.

KREFELD: Hanborn: Leaflets

SUPPLARY

KREFELD

1. A force of 705 bombers carried out a devastating attack on the town of Krefeld, which was accurately ground-marked by Oboe Mosquitoes. More than half the town was destroyed, mainly by fire which spread, apparently unchecked, through its northern part. Energy aircraft were very active, and at least 30 of the 42 missing bombers are believed to have fallen to fighters.

Hanborn

2. An Oboe Mosquito attacked Hamborn using its presision device, and returned undamaged.

Leaflets

15 Wellingtons dispersed leaflets over Northern France without loss.

Heteorological Forecast

4. Midnight frontal positions: - (1) cold from 62°N.12°E. to 57°N.15°E. to 50°N.12°E. to N. Italy (2) warm, approaching W. Ireland.

Bases:- Fing. Small amounts of strato-cumulus at 2-3,000'. -- Good visibility.

Germany:- Well broken layer cloud along N.W. coast. Little cloud N. pf a line Dijon-Hamburg; thence, residual thundery cloud, with thunderstorms near cold front. Ruhr: very thin layer of medium cloud between 15,000' and 20,000', probably clearing by 0100. Chance of small amounts of strato-cumulus at 2-3,000'; moderate visibility.

Prance: Finc. Moderato visibility. Well broken layer cloud in N.W.

Winds:

750 mbsl.

.500 mbs.

N. of 53°N. S. of 53°N. 02°B - Ruhr. Ruhr. 280°/20-25 m.p.h. 280°/10 m.p.h. · 300°/10-15 m.p.h.

270°/25 m.p.h. 270°/15 m.p.h. 300°/20-25 m.p.h. 240°/25-30 m.p.h.

At 300 mb: base - 04°E., 280°/25-30 m.p.h. 04°E - Ruhr, 200°/50-55 m.p.h.

KREFELD

Plan of Attack

5. Zero hour - 0130 hours.

Period of attack 0127 - 0220 hours.

Between0127 and 0219 hours, 10 Oboe Mosquitees were to mark the aiming point by releasing red T.I's in salvo. To guard against failure of the Mosquitees, two waves of Y aircraft (18 at 0132 and 13 at 0157 hours) were

..../detailed to drop

detailed to drop yellow T.I's blindly on H2S if no rol T.I's were seen on arrival. Between 0132 and 0218 hours, 37 backers-up were to aim green T.I's at red if seen, but otherwise at the estimated centre of the concentration of yellows; if neither red nor yellow T.I's were seen, green T.I's were to be aimed at the estimated centre of the existing pattern of green. All T.I's dropped after 0145 hours were to cascade from 10,00': before that time all were to cascade from 3,000'.

Timing

i.

Nosquitoes ^x (Red T. I's)	Back	0000-000			
(Red T. T's)				ta/c.	Main Force
THen TIT OF	(gre	on T.I's)	(ye	ellow T.I's	•
	Section 201	a na sana ang ang ang ang ang ang ang ang ang	if	necessary.)	
0127 & 0131	3 at 1	min. intervals	0132-34	18 at 0132	Sect.1 Lancs.(spec.sel
					ed orews) 0132-0
	1 at		0136		- ~ `
0137				-	
	2 at 1	min.intervals	0133-39	-	-
÷	2 at 1	min.intervals	0141-42	-	Sect.2 Wells. 0141-014
0143				-	2G
	5 at 1	min.intervals	0144-48	-	
01/9				-	Sect.3 Stirs.0149-0157
	5at 1	min.intervals .	0150-54	-	-
0155			1992 1999	-	\sim -
-	5 at 1	min.intervals	0156-0200	13 at 0157	Sect.4 Hals. 0157-0204
0201	9779 C 1990 C 19		CONTRICTER STREAM	- C	· · ·
- °	5 at 1	nin. intervals	0202-06		Sect.5 Hals. 0204-0211
0207		12			
•	4 at 1	min.intervals	0208-11	\sim	Sect.6 Lanca.0211-0220
0213	11	- 2		-	
	5 at 1	min.intervals	0214-28		-
	2	가 많이 없는 것 같은 것이 것 같아. 것 같은 것		· · · · · · · · · · · · · · · · · · ·	CS 1

Bonb Loads - Marker Aircraft

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7.
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4 Mosquitoes - 2 T.I. red + 1 T.I. red LB. + 1 T.I. red 5 mins. Celay.
8 Mosquitoes - 3 T. I. red + 1 T.I. red LB.
             - 6 Stirlings - 5 T. I. green (2 LB) + 4 x 2000 H.C.
Backers-up
                 6 Halifaxos - 5 T.I. green (2 LB) + 7 x 500 M.C. + 3 x 1000 GP (1D)
                26 Lancasters - 5 T.I. green (2 LB) + 1 x 4000 H.C. + 6 x 1000 G.P.
Y aircraft (1st. wave) 5 Stirs. - 2 T. I. yellow (LB) + 4 x 2000 H.C.
                         8 Hals. - 2 T.I. yellow (LB) + 10 x 500 HC + 3 x 1000 GP (L
                         5 Lancs. - 2 T.I. yellow (LB)+ 1 x 4000 HC + 6 x 1000 MC.
            (2nd.wave) 4 Stirs. - 4 T.I. yellow (3 LB) + 4 x-2000 HC.
5 Hals. - 4 T.I. yellow (3 LB) + 8 x 500 HC + 3 x 1000 GP (1
3 Lanos. - 5 T.I. yellow (3 LB) + 1 x 4000 HC + 6 x 1000 GP.
Routes
        P.F.F. - Aldeburgh - TARGET - turn left - Noordwijk - Happisburgh.
        1 Gp. - Southwold - 51°48'N. 03°50'E - TARGET - turn left - Noordwijk -
                                              Mablethorpe.
        3 Gp. - Aldeburgh - 51°48'N. 03°50'E - TiRGET - turn left Noordwijk -
                                              Southwold
        4 Gp. - Southcold - 51°48'N. 03°50'E - TARGET - turn loft Noordwijk -
                                              Southwold.
        5 Gp. - as passe verbally.
```

6 Gp. - Base - 51048'N. 03050'E - LAGET - turn left - Noordwijk - Base.

..../Sorties.

Sor

Sorties (a) No. of aircraft despatched 705 9. . 2 (0.25) (equipment left behind.... 2) (reserve marker - not rqd. 2)..... 42 (6.05) (attacked by fighter..... 1) (hit by flak...... 1) (sickness of crew..... 1) (cause unknown -crashed... 1) (e) " " aircraft missing..... 42 (6.0% . Teather Experienced ۰. 14. 10. Bases :- Fit all night. Route:- Very small patches of cloud, otherwise clear, with moderate to good visibility. Target: - 4-6/10ths. thin patches of strato-curalus at first, tops 8-10,000ft. with occasional patches of 8/10 ths. thin cloud through which parkers could be seen plainly. Cloud cleared to 0-3/10ths. Curing the attack. Ovisibility, moderate to good, with slight ground haze. surface wind: Very light, southwesterly. Moon, 75% of full, up during the attack, rising about 0030 hours at the target. Night Photographic Evidence No. of photographs with bombing examined 11. ground detail No.of aircraft catinated from the photographic evidence to have Marrative of Attack 12. 9 of the 10 Oboe Mosquitoes detailed to mark the target dropped their red 7. I's accurately but at irregular intervals. Since, however, 4 Mosquibes carried one 5 minute delay T.I. the marking was almost continuous. The backing up was xcellent, and a concentrated attack was delivered on the centre of Krefeld. ilthough there was a tendency for the attack to drift backwards along the line of approach, night photographs indicate that about 75, of the force boobed within b miles of the siming point, a high proportion being on the built-up area. The raid was taotically successful and caused exceptionally heavy Comage. aylight Reconnaissance Reconnaissance photographs show that more than half the town of Krefeld 13. vas destroyed. Most of the damage was concentrated in the centre, and spread worthwards and eastwards to the industrial district, where the damage is particularly severe, but there were also scattered incidents in the south of the kyn. Little damage was caused in suburban areas. The large areas of evastation were mainly caused by fires which appear to have spread unchecked through the northern part of the town, but within these areas there is abundant widence of denolition caused by H.E.

...../14.

3.

14. Although no industrial targets to which priority ratings are given appeared to have been affected, 11 identified factories and 12 other small industrial concerns were destroyed or severely danaged. These include 8 textile factories, some of which were engaged in weaving parachute silk, and a factory making machinery.

15. The gas works was very severely damaged, 2 main buildings being partially denolished, and 2 gasholders damaged by fire. The old buildings of the municip power-station were damaged and the administrative offices gutted. 2 fire stati 2 police stations, 2 post offices and 2 tranway depots were destroyed or damaged in the ganeral conflagration, and many military barrack buildings were partially wholly wrecked.

16. The greatest denage, however, was to business and residential property, including many public buildings such as the district courts, the town assembly hall, the town theatre and the market hall. It is estimated that almost 60% of the buildings in the fully built-up area of Krefeld were completely destroyed, and that altogether 25,000 housing units were rendered uninhabitable.

Alternative Areas

17. One aircraft dropped its load on a searchlight concentration at Overflak and another on an unspecified target east of Bindhoven, both owing to fighter at

Special Equipment

18. Obce This was the first operation after the introduction of K. Obce. The target was accurately ground marked by 9 of the 10 Obce Mosquitoes despatche and neither of the 2 reserves was called. The irregularity of the marking was almost mullified by including one 5 minute delay red T.I. in the load of 4 of the Nosquitoes. One aircraft returned early owing to engine failure. It is noteworthy that there were no failures of Obce equiment on the first night that the new system was used on operations.

19. <u>H2S</u> To guard against galure of K-Oboe on its first operational tria. 31 H2S aircraft were despatched to mark the targot blindly, if no red T.I's dropped by Oboe Mosquitoes were visible. 25 of these boabed (only 3 on H2S), and the single load of markers which was released was aimed at red T.I's. The remaining 6 aircraft were missing.

20. H2S was carried by 18 more aircraft as a navigational aid, and one used it to check the accuracy of the red T.I's, which it bombed. 6 of these aircraf also failed to return; thus, of a total of 49 Y-type aircraft despatched, 12 (2.5%) were lost.

21. Gee. The Eastern Chain operated on the Virginia frequency throughout the raid, and on the Zanesville (target) frequency between 0130 and 0239 hours. The average ranges obtained were 225 and 220 miles on the outward and honeward routes, respectively. Interference of the frequency modulated type was heavy over enemy territory, and obscured the n signal at an early stage; as a result the average ranges were the poerest obtained for some time. The number of jame on this route had apparently been increased.

Lnerry Defences

22. <u>Plak and Searchlights</u> Ground defences at Krefeld consisted of moderheavy flak and a very little light flak. Predicted heavy flak decreased in intensity as the attack proceeded and in the later stages some barrage fire was reported. Only a small number of searchlights exposed and these operated at th in 2 cones to the N. and S. of the target. They were hampered by the anoke and moonlight and gave little assistance to the flak. En route, heavy flak was reported at Eindhoven, Rotterdam, Amsterdam, Utrecht and Leyden and from the Dutch Islands and a ship off Noordwijk, and some intense light flak was reported from Katwijk. In all 28 aircraft were damaged by flak, two being totally destroyed and five others seriously damaged.

...../Pighters.

Intercepted energy wireless traffic disclosed 12 patrols, . 23. Fightera of which were located. 25 sursuits were overheard and 21 claims in all were made in the following areas: - Flushing (2), Harristele (2), Rotterdam (6), N.E. of Gilzo (5), Noordwijk (1), St. Ford (1), Plorenne: (3) and an unidentified area (1). Crews reported 27 attacks and 60 other interceptions. Half of the attacks were on the outward journey, near the Dutch Islan's and the coast of Holland (8), Hertogenbosch (1), Eindhoven (2), and Venlo (3), 7 more attacks occurred in the target area and 6 on the honeward route, near Venlo (1), Utrecht (1) and the Dutch Coast and out to sea (4). 3 aircraft were damaged by fighters, one outbound at Eindhoven, and one outbound and one homebound near the Dutch coast.

Casualties

No. of aircraft missing. .. 42 (6.0 (b) fighter..... 3). .. 37 (5.23) (c)other causes..... 6)

It has been estimated from reports of returning crews that 8 aircraft were shot down by flak and 30 by fighters. Of the 4 other aircraft lost, one was seen to crash near the Dutch Island, the cause being unknown. In the target area 3 losses were probably due to flak and 4 to fighters. Other flak losses probably occurred at Breda, Woensdrecht/Tilburg, Noordwijk, Eindhoven and Rotterdam while fighters are reported to have shot down aircraft at Breda (1), the Dutch Islands (3), Tilburg/Hertogenbosch area (5), Utrecht (3), Geldern (1), Rotterden (2), Rindhoven (2), Venlo (1), Roermond (1), Noordwijk (2), Deelen (1), Ijmuiden (1) and at sea off the Dutch coast on the return (3). The conditions of moonlight probably contributed considerably to the success of fighters on this night.

Three energy fighters were probably destroyed, 2 at Krefeld and one near Venlo.

The orews of the two aircraft which crashed in the North Sea were picked up by air Sea Rescue vervice. Both aircrait had been damaged by flak. One of the aircrait shot down by fighter over the forth Sea was probably 35 J from which S.O.S. calls were obtained at 0322 and 0328.

6 aircraft were damaged by British incendiary bombs.

H. BORN

A single Oboe Mosquito boubed Hamborn using its special equipment. 25. Results were unobserved, and the aircraft returned without incident.

Leaflets

26. 15 Wellingtons of Training Groups stattered leaflets at many places in northern France, all returning unchanged. ... Ittle ground opposition was met at Cherbourg and Lille and one interception was reported.

APPENDIX.

lining of attack

Pathfinder Force

9 Oboe Hosquitoes attacked at:- 0127, 0134,0137,0148(2), 0159,0209,07 ., 0239.

(11) 36 backers-11 attacked att-0135,0136(2),0137,0139,0140,0145(2),0147(2), 0148(8), 0151(3), 0153, 0156, 0159, 0202(4), 0203, 0204, 0205, 0207, 0208(2), 0211, 0212(3), 0214, 0216, 0218, 0220.

...../(iii)

(iii) 25 reserve markers attacked at:- 0130, 0132(6), 0133, 0134, 0135, 0136(2), 0150, 0152, 0153, 0154(2), 0156(2), 0157(2), 0158(3), 0201. (Not required as markers).

ives.co

Main Force

-

5

www.

Section I.	Lancasters with	a selected orews)

Attacked 2 minutes early 1 " within prescribed period (0132-0141) 85 1-11 minutes late..... 18 104

Section II. (Wellingtons)

Atta	oked .	1-10 mim	ates early	2
	with	hin press	cribed period (0141-0149)	65
	1-11	nimites	late	21
				88

Section III. (Stirlings)

	Atta	cked 1-10 minutes early	3
1		within prescribed period (0149-0157)	70
		1-10 nimites late	22
			95

Section IV & V. (Halifaxes)

Atte	acked 1-10 minutes early 7
"	within prescribed period (0157-0211)120
n	1-10 minutes late 27
	time unknown 1
	155

Section VI. (Remaining Lancasters)

- 22	Atta	cked 1-11 mi	mutes early	21
		within pres	oribed period (0211-0220)	85
		1-5 nimites	late	;
19)	107

Bomb Loads

II. Pathfinder Force

T. I. only	9 No. quitoes.
H.E. + T.I	
H.E. + T.I.	
+ 41b	. inc
a 120 - 20	70

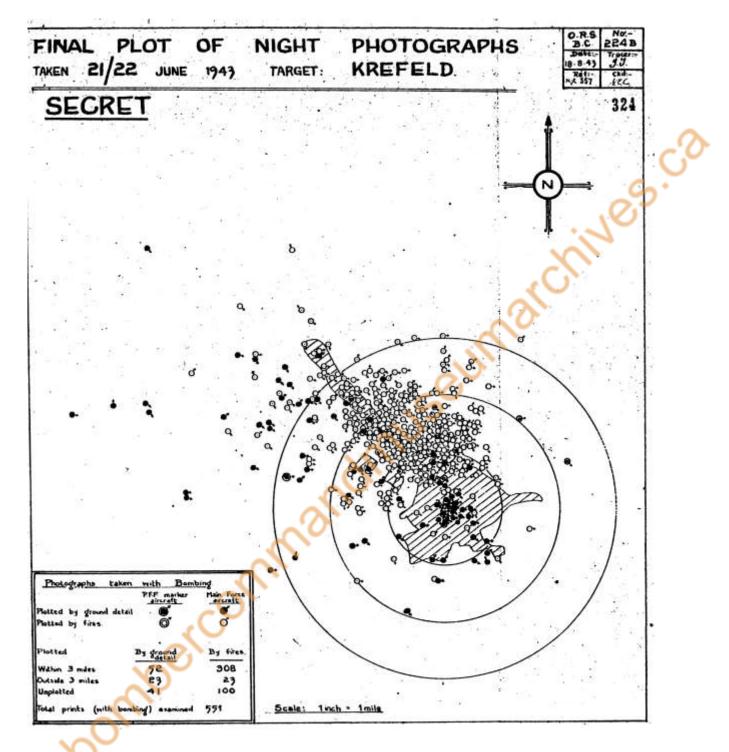
Main Force

H. B.	+ 3011	· + /	41b.ir	 	383
H.E.	+ 3011	.inc		 	12
H. E.	only.			 	30
301b.	inc.	+ 41	b. inc	 	124
				3	549

ENO/JT. BC/S. 26342/6/ORS3, 13th. September, 1943.

TARGET GROU	contro	TIPE	SORTIES	ATLAC		TROSt IA	E SORVIES	MISSING	Dalae			INTE CEPTIONS		RESULIS Tons of Bonbs	
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		Long.III	25	22	-		1	2		-	-	1	2	P. 6	
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	MADE	Hal.ILAV.	4	3	-	-	-	1	-	10		1	1	M	12
	FORCE	Hal-IL.	4	4	-	-	-		-	-	-	-	-	1.	
		Lano.I	6	6	-	-	-	- 1	-		(-)	-	1	24	
	0	Lanc.III	2	8	-	-	-	1	1	-	1.00	-	-		C
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			1						+28			L 3			1

24.RGET	GROUP	TYPE	TYPE	SORTIES	VO B.	PORTING	· ABORT.	IAS POLIS	MISSIN		LUCE		INTINCE 7	TIONS	MESULTS.
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HANDORN	PYF	Mosq.IV.	1	1	1	0				-			-	P.O.Stons. H.I	
BOMBING 7	OILL		706	620	2	4+2 ^M	36	44	21+ 4AC +1B +28	1+ 2.0	24	27	60		
LEAFLEIS	- 91	Well.III	5	5	-	-		- 1	-				-		
ORE EANS	92	Well-III	1	E.	-		-	-	-		-				
Fuels	91	Well.X	2	2	-			-	-	-	-		-		
ALABERT	92	Will-III	1 1	4	-		-	-	-	- 1	-	-	-		
LATAN	92	Well-III	1	1	-	(H)	-	-	-	-	-		-		
BOURGES	92	Well+III	1	1	-		-	-	-				-		
TOURS	92	Well-III	1	1		-	-	-	-	- 1	-	-	-		
NANTES	92	Well-III	1	1			-	- 1	-	-	-		-		
106256	92	Well.III	1	1	-		-	-	-	-	-	-	-		
LE NENS	1 32	Well-III	1	1	-		-	- 1	-	-	-	-	1		
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Many.

NIGHT RAID REPORT NO. 358

COPY NO. C

BOMBER COMMAND REPORT ON NIGHT OPERATIONS - 22/23rd JUNE, 1943

MULHEIM: Berlin: Cologne: Minelaying: Leaflets.

SUMMARY.

THEIN.

A large force of 557 aircraft made a successful attack on the city of Mulheim, nich was accurately groundmarked by Oboe Mosquitoes. The city centre and the dustrial area to the North suffered severely, major damage being used to the reinigte Stahlwerke A.G., August Thyssen Hutte and 2 other large steelworks. The in railway station was almost destroyed, and many public building: damaged. About he fifth of the residential propery of the city was rendered uninh litable.

35 aircroft failed to return, at least 16 being lost to fighters and 9 to flak.

erlin and Cologne.

Berlin and Cologne were each attacked by 4 Mosquitoes of No. 8 Group; all the roraft returned undamaged.

melsying.

52 aircraft were despatched to lay mines off the Frisian Islands. 47 completed a task, laying a total of 173 mines, and the remainder rot whee early. No aircraft is lost. /

aflets.

Leaflets were dispersed in many areas of Northern France by 23 of a force of aircraft. 2 Wellingtons returned early and one is missing.

teorological Forecast.

Estimated midnight position of fronts (1) occluded front: ... Yorkshire - S.W. gland, with narrow belt of roin along it. S.E. of this occlusion, much medium cloud i broken low cloud, with orderate visibility.

Home bases:- generally fit for take-off, with small amounts of low cloud at 200 ft. and broken high and medium cloud in layers over Lincolnshire and East Anglis. Yorkshire 5-8/10ths cloud at 2,000 ft. with 8-10/10ths medium and high cloud in reral layers, mainly below 12,000 ft. with light rain locally. For return in thern bases, well layered cloud, base 1,500 ft. or above, with layers of medium ud up to 14,000 ft. and patchy cirrus above. Northern bases, broken low cloud not tow 2,000 ft. and layers of medium and high cloud. Visibility throughout operational ricd, moderate in most areas. Training groups; fit at most bases, except possibly the higher stations in 91 Group.

France:- Low stratus with base below 1,000 ft., decreasing to a small amount of Nantes.

Low Countries :- Thick medium cloud.

Gormany:- Thin broken medium cloud N. of 50°N., much medium cloud probable in extreme E. Central Germany, fine. S. Germany, much medium cloud.

Route to Ruhr:- patches of low cloud and layors of medium and high cloud, it ng castwards, and thinning appreciably over the continent.

..../Ruhr

Ruhr:- small amounts of very thin medium cloud between 15 and 18,000 ft. i expected, but up to 7/10ths thin cloud may drift over the target at the time of the sttack. Visibility moderate apart from industrial haze.

Prisians:- good visibility, patchy low cloud, less than 3/10ths, and possibly up to 7/10ths high and modium cloud.

Berlin :- clear sky, moderate to good visibility.

	Winds :-	750 mb.	500 mb.	300 mb.
s.	N. of 53 ⁰ N	220 [°] /50 n.p.h.	230 ⁹ /65 m.p.h.	250 ⁹ /100 m.p.h.
	S. of 53 ⁰ N	230 [°] /35-40 m.p.h.	240 ⁹ /50 m.p.h.	260 ⁹ /75 n.p.h.
	2 ⁰ E - 5 ⁰ E	230 [°] /25 n.p.h.	240 ⁹ /40 m.p.h.	270 ⁹ /55-60 m.p.h.
	5 ⁰ E - Ruhr	270 [°] /5-10 m.p.h.	260 ⁹ /25 m.p.h.	280 ⁹ /45 m.p.h.

Plan of Attack.

6. Sero hour 0120

Period of Attack 0117-0159.

En route to the target, 8 Oboe Mosquitoes were to drop yellow T.I's at $51^{\circ}43$ 'N. $06^{\circ}52$ 'E, 4 miles to port of the main force's track. Between (Z - 3) and (Z + 36) the Mosquitoes were to drop rod T.I's in salvo on the siming point. Between (Z + 2) & (Z + 35), 29 Lancasters, as backers up, were to aim green T.I's to overshoot by 1 sec. red T.I's, if possible, but otherwise the estimated centre of existing green T.I's. The main force crews, divided into 8 sections with the best crews of Lancasters and Halifaxes in the first half of the attack, were to aim at red T.I's, if possible, but otherwise at the centre of all greens. All main formatives only. The T.I's dropped during the first ton minutes of the attack were to cascade at 3,000' or 6,000', thereafter they were to cascade at 3,000' or 10,000'.

For training, 2 Oboe Mosquitoes were to attack each with 3×500 lb. M.C. bombs at (2 + 52) and (2 + 57) respectively.

The Eastern Gee Chain was to be available on two frequencies between 0030 and 0215 hours.

Timing.

	7.	Maguitoes	Backers-up	Main R	orce.
		z - 3			8. AH2. IN
		2 + 1			Loncasters
		z + 7 🧹	(Z+2)-(Z+6) 5 at 1 min.intervals	(2+5)-(2+9)	Sec.2 Lancasters
			(Z+8)-(Z+12) 5 at 1 min.intervals	(Z+10)-(Z+14)	Sec.3 Halifaxes
		2 + 13	An and the second second second second second	w Read Wite case	an and a second
		Z + 19	(Z+14)-(Z+18) 5 at 1 min.intervals	(2+15)-(2+19)	Sec.4 Stirlings
	24		(Z+20)-(Z+24) 5 at 1 min.intervals	(Z+20)-(Z+24)	Sec.5 Stirlings, Halifaxos & Well
	0	Z + 25		(Z+25)-(Z+29)	Sec.6 Hals. & W
		Z + 31	(Z+26)-(Z+30) 5 at 1 min.intervals	(Z+30)-(Z+34)	Sec.7 Lencs.& E
	Ô.		(2+32)-(2+35) 4 at 1 min.intervals	(2+35)-(2+39)	Soc.8 Lancasters
5	Bomb	Logis - Mark	er Aircroft.		
N					
N	8.	10 Mosqui 29 Loncas	toes - 1 T.I. yellow (LB) + 3 T.I. 1 ters - 4 T.I. green (2 LB) + 1 x 400	red (1 LB) 00 H ^C + 6 x 1000	0 GP.
	Rout	05.			
	9.	P.P.P	Base - 52°22'N. 03°50'E - Bocholt - 51°25'N 06°30'E - Noordwijk - Sou	- Target - wide thwold Base.	right turn -
		1 Group -	Southwold - Noordwijk - Bocholt - 1 51°24'N 06°30'E - Noordwijk - Mabi	Target - wido r	ight turn -
				returb	/3 Group

3. 3 Group) - Southwold - Noordwijk - Bocholt - Target - wide right turn -4 Group) 51°25'N 06°30'E - Noordwijk - Southwold. 6 Group) 5 Group - "as passed vorbally."

Sorties.

10.	No.	of	aircraft	despatche reporting		on	primory	are	۰.	•		•		557 464 (83.3%)
		•					alterna	tive	area					4 (0.75)
			abortive	sorties				mlat	ivo er	TOTS	. 1	49)		0
					late on	tai	get .			•		2)		and another the
			1.	× .	illness						•	1)	•	. 54 (9.75)
20			6		attacke					•	•	1)		
			aircraft	missing	reserve	, n:	ot requi	irod	. :	:	:	1)	•	35 (6.3%)

feather Experienced.

11. Home Bases: - Patches of low stratus affected the south part of the country, but otherwise all bases were fit.

Route:- 2 or 3 layers of cloud 8-10/10ths, base 2-3,000 ft., tops 6,000 ft. Broken Layer cloud at 10,000 ft. and between 12 and 15,000 ft. Broken cirrus above. Icing was reported at 15,000 ft. The layers of cloud broke over the Dutch coast, and contrails formed between 18,000 ft. and 20,000 ft. from the Dutch coast to the target.

Target:- Isolated patches of medium cloud, mainly 2-5/10ths, breaking to nil at times. This cloud was thin and varied between 15 and 18,000 ft. Scattered cirrus cloud above, base 25,000 ft. Visibility moderate, with slight ground haze. Winds, 18-20,000 ft. 260°-270°/3° m.p.h. Surface winds:- light, variable. Moon:-65% of full, up during the period of attack.

Energy Airfields :- Broken medium cloud, with moderate to good visibility.

Night Photographic Statistics.

12. Owing to thin cloud, which was sufficient to obscure most of the photographs, the sample of photographs showing ground detail was very small, being only 5.8% of the aircraft reporting attack. Of the 15 photographs plotted, 9 were within 3 miles of the aiming point. It was not possible to make the usual plottings by fire-tracks, but an approximate assessment of fire-track photographs, linked with a fire-mosaic from a slow-speed-shutter camera, indicates that the main weight of the attack fell on Mulhoin and tailed off to the N.N.E., extending to about 2 miles N. of Oberhausen. It seems probable that 25-30% of the attack fell on the built-up area of Mulhoin, including the Thyssen Steel Works.

Narrative of Attack.

13. Red T.I's were accurately placed by 8 Oboe Mosquitoes including one reserve. The timing was fairly good, and the 2 short breaks in marking were covered by the backers-up, which kept the target marked by green T.I's throughout the raid. The main force bombed almost entirely on T.I's, crews' reports and daylight reconnaissanphotographs indicating that a good concentration was achieved. There is nothing to suggest that the enemy decoyed any sircraft from the target by using dummy T.I's.

Daylight Reconnaissance.

14. Reconnaissance photographs show very heavy damage to industrial, business and residential property, concentrated almost entirely in the closely built-up area of the old town, and to the north of it, where the heavy iron and steel works are situated. This important group of works consists of the Vereinigte Stahlwerke A.G., Pr. Wilhelmshutte and Siemens - Schuckertwerke A.G., each of which sustained mejor damage. Other severe industrial damage includes buildings of the Rheinische Filzund Pappenfabrik and 15 unidentified factories, 8 of which were devastated. The main railway station was almost completely destroyed and 2 other stations were damaged. The extensive railway workshops west of the River Ruhr were also affected. 22 public buildings, including two large municipal buildings and the main post-office, were damaged, 9 being partially or wholly destroyed and 11 severely damaged. 3 commercial buildings and 3 hutted camps, one of which was demolished, were also damaged.

Widespread damage to business and residential property, mainly in the old town and to the north-east, was chiefly caused by fire. The total number of dwelling units rendered uninhabitable was estimated to be 6,136 out of a total of 33,000.

Alternative Targets

15. 4 aircraft attacked various alternative targets in the Ruhr.

Special Equipment

16. <u>Oboe</u> 12 Oboe Manual and Manual States and 2 to carry out a training attack at the end of the raid. 7 markers and 2 to carry out a training attack at the end of the raid. 7 markers and one reserve dropped green T. I's accurately, the timing being good throughout, so that almost continuous marking by Oboe was attained. One marker returned early owing to failure of its Oboe equipment, the second reserve was not required. One of the 2 training aircraft bombed on Oboe, but the other used visual identification since, owing to supercharger failure, it was unable to gain sufficient height to use Oboe.

17. <u>H2S</u> H2S was carried as a navigational aid by 12 airoraft, only one of which used its equipment to check its position at bombing.

18. <u>Gee</u> The Eastern chain operated on the Virginia frequency throughout the raid and on the target (Zanesville) frequency from 00.30 to 02.15 hours. The average range obtained on both outward and honeward routes was 230 miles. Conditions were very similar to those prevailing on the last raid on the Ruhr ('crefeld 21/22nd, June). Jamming was heavy on both frequencies, though on this occasion it was less serious on the Virginia than on the target frequency. The B and C signals were strong but the A signal was weak and soon lost in the heavy jamming

Enemy Defences

19. (a) Flak and Searchlights At the target moderate heavy flak oo-operated with a small number of searchlights which at it is formed up to 4 cones. Intense heavy flak was reported at neighbouring places, in particular at Essen and Duisburg. En route heavy flak was active at Soesterburg, Noordwijk, Utrecht, Amsterdam and Rotterdam. 91 aircraft were damaged by flak, 11 seriously. At least 40 of these are stated to have been hit in the target area.

20. (b) Fighters Encry wireless traffic overheard in this country revealed that 13 patrols were active and made at least 35 pursuits. 16 bombers were olained destroyed in the areas of Alkmaar (4), Texel (1), Zwolle (1), Rheine (1), Arnhom Deelen (4), Flushing (2), Noordwijk (2), and Scestorberg (1).

Bomber crews reported 70 interceptions which developed into combats in 34 cases; 18 being attacks. 7 attacks were made on outbound aircraft (4 at Utrecht), 7 on homebound aircraft, (3 in the Nijmegen area), and a further 4 attacks were made over the target. Six aircraft were damaged by fighters, 3 seriously.

Casualties

 It is probable that flak accounted for 9 of our lesses, 6 at Hulhein, and the others at Exercich, Utrecht and Ansterdam. Fighter losses have been identified as possibly occurring at Ansterdam (2), Socsterberg/Utrecht (7), Wesel (1), Nijmegen (1), Hertogenbosch (1), Noordwijk (1), in the target area (2), and to sea off Katwyk (1). 7 other losses due to unknown causes were reported at Deelen (1), Bocholt (1), Mulheim (2), Antwerp (1) and over the North Sea off Katwyk (2).

Two Lancasters were damaged in collision over the target, and one by fire from another Lancaster. 5 aircraft, one of which was also hit by flak, were damaged by incendiary bombs.

Berlin and Cologne

22. Berlin and Cologne were each attacked by 4 Mosquitoes flying at high level. No results were observed, and all the aircraft returned undamaged, although heavy flak was experienced at Berlin.

Minelaying

Sarties

23.	No.	of	aircraft despatched 52
		Ħ	reporting mines laid in primary area
12		n	abortive sorties (nine hung-up1)
		n	aircraft missing Nil
		n	mines laid 173

Narrative of Attack

21. 173 mines were laid off the Prisian Islands by 4, aircraft of a force of 52. Although light flak and a few search lights were active at Nordorney, Langeoog and Schiermonnikoog, and intense flak from two positions at sea off the Islands, only 3 boxbers were hit. In addition one Lencester was slightly damaged by the trailing aerial of mother aircraft. One Helifax was intercepted by energy aircraft, but no attack was made.

Leaflets

25. 26 aircraft of Training Groups were despatched to drop leaflets at Paris, Orleans, Le Mans, aniens, Lille, Rheins and Laval. The task was completed by 23 aircraft, but 2 Paris sorties were abortive owing to technical defects, and one is missing. A little light flak was experienced at Le Anelys and heavy flak at Rouen, Pt. Ally, Dieppe, Caen and Cuistrehan, 3 aircraft being hit. Searchlights were active at Cherbourg, Ouistrehan and Boulogne. 2 Wellingtons were intercepted by enemy fighters, but no combat developed. One Jullington crashed on the return. Nothing is known of the fate of the missing aircraft.

iming of Attack

I. (a) Pathfinder Force

(1) 8 Mosquitoes attacked at 0117, 0122, 0129, 0131, 0141, 0151, 0154, 0201.

PPENDIX

(ii) 26 backers-up attacked at:- 0121, 0124, 0125, 0128(3), 0129 (2), 0132, 0133, 0135 (4), 0136, 0138, 0139, 0141, 0143, 0146, 0148, 0151 (5), 0152, 0154.

...../(b) Main Force.

(b) Main Force

Laure	ed 1-2 nin											
	between										t))	
н	n	0125	and	0129.	 			 	 	72		
*		0130	and	0134.	 			 	 	43		
		0135	and	0139	 			 	 	82		
-	۳	0140	and	0144	 			 	 	59	C	
		0145	and	0149	 			 	 	61	\sim	
				0154							15	
				0159								
22		0.000255		1000	÷	33	a) +			<u> </u>		
		32		<i></i>	20				V.	128		

2 Mosquitoes under training attacked at 0204 and 0209.

Boob Loads Carried

II, (a) Pathfinder Force

(b) Main Force

H.E. + 30 lb. inc. + 41t. in	10
H.E. + 301b. inc	······
H.E. + 41b. inc	×···· 13
H.E. only	
30 lb. inc. + 41b. inc	

428

2

H.E. + T.I. 2 Mosquitoes (training).

E40/JT. BC/S.26342/6/ORS. Jrd. September, 1943.

TARGET	GROUP	TIPE	SCR7 DES	ATL.CO		ABORTI	VE SOFTER:	NESSING	n	MGE		I TERCEPTICKS		RESULTS Tobs of Bonbs	
		-		PRIM. AREA	ALT. AREA	OVER ENCENY TERR.	NOT OVER ENERY TERR	4	FLAX	PIGHTER	NOT E/4	NT D.CK-	ATTACE-	8.2.	Inc.
PUTHEIN	8 1979.	Mosq.IV Lanc.I Lanc.III	10 7 21	8 7 19		1+1X -	1	-	2		140	÷	-	P4755-5	784.6
	6 MADN FORCE	Mosq.IV Hal.IL&V Hal.LA Stir.I Stir.III Lanc.I Lanc.III	2 2 5 3 1 3 10	22-5117										Heavy Bo 8000151 Pi 4 A M	adae
	1	Lano.I	29 73	23	1	1	3.	1	7+10	-	-	12	3.	A	Y
	3	Stir.I Stir.III Lano.II	8 81 9	65 8	;	-	6	2 9	3 19+ 340	140	-	2	5	. (25
	4	Hal.IIAV Hal.IA Well.X	100 23 32	83 22 27	1	-	8	8 . 2	.10	1Bacx	1.0	2	6	2	
147	5	Lenc.III	41 49	98 40	:	ī	27	1	9+14C 10+ 24C	:	1	23	1		
	6	Bal.IIAV Well.X	25 23	17 18	2	2	4 3	. 2	4 1+ 2,0	- 2	ī	K	3		
MINER TOTAL		1	557	464	4	6	84	35 -	77+ 1040	3+ 24C +1B	عدر +5.	18	52		

This aircraft was over target area. Reserve not required.

was also hit by flak.

1

...../Contd:

TARGET	GROUP	7228	SORTIZS	ATTAC		1.1.1.1.1	IVE SORTINS	MISSIN	4	COR	17450	INTERCEP		RESULTS
		-		PRDL.	ALT. AREA	OVER EXEMP	NOT OVER ENERY TANK	0	PLAK	PIGHTER	B/a	ATTACK-	NOT ATEACK	ł
MALPEDI TOTAL			557	464	4	6	1,8	35	77+ 1040	3+2aC +1B	340+ \$+	18	52	-
HERLIN	8 1975	Mosq. IV	4	4	-	•	1	2	-	-	-	-	-	P. 3.1 tons. H.)
COLOGNE	8 775	Monq. IV	4	4	-	-	14	-	-	-	-	•	. e .	P. 3.1 tons. H.1
BOMBING TOTA	L		565	472	4	6	48	35	77+ 10µC	3+24C +1B	5:	18	52	•
INISLAYING	1	Well.X	12	12	- /	-	-	-	140	-	-	-	-	24 mines
FRISIANS	3	Stir.I	7	7	-	-	-	-	1	-	-	-	-	35 mines
		Stir.III Lenc.II	10 3	10	5	1	12	1	1	-	1	:	:	50 mines 18 mines
1	4	Well. X	10	7	-	-	3	-	-	-	-	-	-	14 mines.
1	6	Hal.II&V	10		-	-	2	-	-	-	-	-	1	32
MINELAYING TO	OTHL		52	47	-	-	5	-	2+ 14C		1	-	1	173 nines
LEAFLETS	6	Constant and the		1					Lau					
	93	Well+III	2	2	-	0.000	-	-	1	-	-	• · · · · · · · · · · · · · · · · · · ·	-	in a most service
	93	Well.III	2	2	-	-	-	-	1	-		-	-	
and the second se	93	Whit.V	2	2	-	-	-	×.	-	*	-	-	-	
PLRIS S	93 .	Well.III	6	3	-		2	1	-		-	+	2	
LILLS	93	Well.X	2	2	-		-	-	-	-	-	-	-	
2.00.08		Whit.V	3	3	-	2	-	2	2	-	:	-	2	
RHEIMS	93	Well.III	1	1	-		-	-	1	-	-	-	-	
LAWL 3	17	Well.X	1	1	-	÷	-	-	-		1.2		-	
	93	Well.III Well.X	1-1	1	-	2	-	-	-	1	2	-	-	10
LEAPLET TOTAL			26	23		-	2	1	3	-	140	-	2	
TOTAL			643	542	4	6	55	36	82+	3+ 245		_	55	329

NIGHT RAID REPORT NO. 359

1.24.44

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5 2

COPY NO

BOMBER COMMAND REPORT ON NIGHT OPERATIONS, 23/24 JUNE, 1943

SPEZIA : Duisburg : Cologne : Minelaying ...

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STOARY

ener al entrane de manipagione

.....

and the second sec

SPEZL

1. 52 of the Lancasters which landed in North Africa after the attack on Friedrichsafen on 20/21st June (see report No. 356) raided Spezia on the return journey. Daninge included the San Vito arsonal and works, and 2 oil tanks wore burnt out. None of (bo aircraft.was lost and only one was demaged.

Duisburg and Cologne

. .7 Harassing raids on Duisburg and Colome were made by 6 Mosquitoes of 8 Group, all of which returned undamaged.

ing at it Minelaying

• *** * ** •*• 29 of 30 aircraft despatched laid a total of 79 mines off the west coast 3. of France. The aircreft all returned safely, 2 being damaged.

1.50

Metcorological Forecast

Estimated midnight position of fronts: - occlusion from 63°N. 15°E. to 54°N 10°E. ' becoming warm to 50°N. 06°B. and cold to Brussels to Le Havre to Lorient, thence warm north-westwards.

Bases: Bit all night, with little cloud. Visibility good, except for local smoke in 1 and 5 Groups

Germany: Much medium cloud (in thin layers) and high cloud near the front, but little low cloud. Broken strato-cumulus and medium cloud over N.W. coast. Patchy thin cloud at medium levels in central and S. Germany. Puhr clear by 0130, with moderate to good visibility.

France: Patches of very low cloud over Brest, decreasing southwards to small amounts beyond Nantes. A belt of 5-8/10ths strato-cumulus, base 2-3,000 ft., will lie somowhere between Nantos and Bordosux. Haze patches in frontal zone. Visibility moderate to good.

Plan : of Attack

5.

•

Zoro hours - 2330 hours

VA GAR

All available 5 Group and P.F.F. Lancasters in North Africa are to take off at the earliest possible date after arrival in North Africa. Any aircraft which are unserviceable, and which cannot be made ready without delaying the operation, are to return to England independently as ordered by the C.-in-C., Mediterranean Air Command.

As far as possible the operation should be treated as a normal night 6. operation, using the P.F.F. crews to mark the target if they have any T.Is. 1 As Speria will undoubtedly be covered by a smoke screen all crews are to attack on time and distance from a selected point on the island south of the target, unloss ordered by R/T or W/T to attack any visible marker such as a T.I. or fire.

- 2 -

Further details are to be decided by the leader of the operation in 7. consultation with the C.-in-C., Moditerranean Air Command. These dotails are to include bomb-loads , which are not to exceed 7,500 lb. per aircraft.

Route

Maison Blanche or Blida - 42°N. 07°E. - Spezia - Savona - Lake Annecy -8. Maison Blanche or Blida - 42 N. 07 E. - Spezia - Savona - Lass Anaroy -47 N. 02 B. - Cabourg - Solsoy Bill - Basc. (See route map attached to roport No. 356).

Sortics

9•			airoraft	despatched
		tt	abortive	sorties (Technical defect3)
	•	11	aircraft	missing 0
1.5	ŧ?	12		

Weathor Experienced

10. Spezia: - Cloudless. Good visibility. No moon.

tracks

Return route :- Alps clear except for cloud in the valleys. 0-3/10ths over France, but valley for and ground haze. Half moon, rising at about 0200 hours.

Wind at 20,000 ft: 020% 30-35 n.p.h. over North Italy, gradually backing and increasing to 40-45 p.p.h. over France.

Night Photographic Statistics

1.1.

11.	No.	of	photogr	raphs with	bombing	examin	ed	•••		•••	18
		•		showing dotail			d within outside		miles	. 4) Nil	4
69					8 a 💧	(unplot	ted	•••	••••	.151)	

(plotted within 3 miles .10) showing fire " outside 3 . Nil)L (unplotted

No estimate of the number of aircraft bombing within 3 miles can be given since the photographic sample is small. Several aircraft carried no cameras, and many no photo-flashes. No plot is issued.

Narrative of Attack

Illuminating flares were dropped by the 2 P.F.F. aircraft participating, 12. and green T. 18. by the leading 5 Group aircraft. These were assessed by the latter as wide of the target, but meanwhile a borb had set fire to an oil-tank. Aircraft of the main force were ordered to bomb 500 yards north of the oil fire, and many did so. However, much interference on both R/T and W/T provented a large number of aircraft from receiving the signal. Some of these made a timed run, others bombed green T.Is., and a few orbited the target until the "attack-completed" signal was received, when they bombed hurriedly. Dospite this partial breakdown of the pre-arranged plan, and dospito the adequate smoke-screen, a fairly concentrated attack was delivered, all aircraft bombing between 2338 and 0009 hours.

Daylight Roconnaissance

13. Most of the damage done was to harbour-side buildings south of the town, The smithery at the San Vito arsonal was severely damaged, and the fitter's show and large gun factory were also affected. 2 buildings in the San Vito works wore also damaged, a direct hit was scored on the submarine workshops southwest of Basin No. 1, and half the bost house on the apposite side was destroyed. At Marola, about 600 yards further south, one large and one small oil tank were burnt out and another large oil tank was damaged. The hull of a Regolo class oruisor lying just off this point, which had proviously been reported as having

received a direct hit, was almost completely submerged. In addition, several houses were destroyed or damaged.

CEB

14. The Southern Chain operated on the Caroline-Frequency and the Eastern Chain on the Virginia frequency throughout the raid; no separate target frequency was used. The average range was 490 miles, and the greatest range 630 miles. Fixes were obtained beyond the range of the existing lattice charte, and were plotted by extending the existing lattice lines. Some navigators reported an unidentified pulse near Spezia.

Enemy Defences

15. <u>Flak and Scarchlights</u> Over the target there was slight inaccurate heavy and light flak, and a small number of searchlights were working singly in the harbour area. Ground defences were also active at Genoa, Savona, Turin and Caen. Only one Lancaster was damaged by flak.

16. <u>Fighters</u> No controlled night fighter activity was revealed by intercepted wireless traffic. 3 interceptions were reported, at Spezia, Chartres and Cabourg, but no combat developed.

Casualtics

17. Apart from one aircraft hit by flak neither. hamage nor loss was sus-

Duisburg and Cologne

18. 3 Mosquitoes wer. Lespatched to Duisburg and 3 to Cologne. All bombed their primaries from 27-28,000 ft., on E.T.A. from Geo fixes. No results were observed. All the aircraft returned undamaged, although heavy flak and searchlights were active at both targets. Searchlights were also active at Eindhoven.

MELAYING

19. 30 aircraft of 1, 3 and 6 Groups were sent to lay mines off the west coast of France, Wellingtons going to Lorient (7), St. Nazaire (7) and Brest (3), while 11 Stirlings and 2 Lancasters went further south to La Pallice and the Gironde Estuary. A total of 79 mines wad laid by 29 aircraft, one Brest sortio being abortive owing to a technical defect.

20. Light flak and searchlights were reported from coastal areas of the Bay of Biscay, and from shipping near the Gironde Estuary. One Wellington was seriously damaged by flak. A Stirling, which sustained minor damage, shot down an energy aircraft near La Roche. No aircraft was lost.

END/MIA. BC/S.26342/ /ORS3 12th September, 1943.

TARGET				SP24	SLAI I	DO ASPUNC	COLOGNE:	MINRIA.	CINC:		n	8. 1943.			
		1		A/C REPO	RTINC	ABORT	TVE SOMATES	1		DAMACE		I.TERCS	STICKS	RESUL	
	GROUP	TIPE	SOSTIES	ATTACK PRIM	ALT.	OVIDE	NOT OVER	MISSING	FLAK	FIGHTER	NOT	ATTAX-	NOT	Tons of H.E.	
COLUMN T 1			i (ARSA.	AREA	THE	ENERCY TERR.				E/2	ED	ATTACK-	1000	
SPAZIA	8 PWP.	Lance III		47	-		3				-		1 2	P. 105.4	13.7
		- dangering												Heavy 1	
SPEZIA TOT DUISBURG	8 PPP	Mosq-IV	52	49	-		3	-	1	-	-	-	3	80001b.	400015.
Constant of the	1.000			3	-	-	-		-	-	-	•.	-	P. 2.3 tor	
		Mosq. IV	3	3	-	-			-	-	-			P. 2.3 tor	.H.Z.
BOMBING TO			58	55	-	-	3	-	1	•	-		3		
MINELAYING LORIENT	1	Woll.X	7	7	-	-	-	-	140	-	-	-		14 ad	
GIRONDE	1	Well.X Stir.III		9	-	:	1		-	1	-	1		14 ml 31 ml	208
LA PALLACE	3	Stir-III	2	2	-	-	-				-			10 mi	
BREST	6	Well.X	2	2	-	-	1		-	-	-		-	L ni	nes
NUMBERTING	TOTAL		30	29	-	-	1	-	140	1	-	1	3	79 mi	nes
TOTA	LL		88	84	-	-	4	-	1+ 1AC	1	-	1	3 (
N.			é	RAID	TRAC		ND BOMB	PLOTS	NO	r avai	ILAB				

MIGHT RAID REPORT NO. 360

COPT NO. 16

BOMBER COMMAND REPORT ON NIGHT OPERATIONS, 24/25th JUNE, 1943

MUPPERTAL ELBERFELD: Duisburg: Minelaying: Leaflets

SUNSLARY

IPPERTAL/KLHERFELD

The Elberfeld district of Wuppertal was almost completely devastated in an attack by 630 bombers, including 9 Oboe Mosquitoes, which ground marked the arget. The havoo was even greater than the wrought in the Barmen district on the 29/30th May, and together the raids destroyed at least 80% of the business and residential property in Wuppertal. 13 factories and 137 other industrial concerns in Elberfeld were severely damaged, and about 89 small factories outside the istrict were partially or wholly denolished. 33 bombers failed to return, and me came down in the sea.

Duisburg

4 Mosquitoes were despatched to attack Duisburg. 2 completed the task and 2 returned early.

inclaying

3. 3 Group sent 4 Stirlings to lay mines in the Gironde Estuary. 2 droraft each laid 3 mines correctly, and 2 t aned back owing to engine failure.

leaflets

Leaflets were dropped over Rennes and Paris by 7 Whitleys of 91 Group, 11 of which returned undamaged.

teorological Forecast

Anti-cyclonic conditions over England and N.W. Germany.

Home Bases: Fit for take-off, with little cloud and good visibility. For return, little or no cloud in southern Groups apart from patches of medium and high cloud. In northern Groups, large amounts of medium cloud in layers with some strato-cumulus not below 2,000 ft; visibility 2-4 miles, but locally 1-2 miles in smoke haze in the north.

Prance: Much medium oloud in N.W., and broken low cloud associated with a frontal system advancing from the Altantic. Shall amounts of cloud over remainder of France.

Germany: Broken strato-cumulus over coastal strip, small amounts inland, and well broken layer cloud E. of 10°E. There is a risk of local thunderstorms in S. Germany.

...../Winds:

Route to Ruhr: Little cloud at all levels.

Rubr: Little or no cloud; probably slight smoke hase.

In Pallice and route: Little or no cloud, with moderate to good visibility.

Winds: 750 mb. 270°/15 m.p.h. 500 mb. 300 mb. 260[°] Bases: take-off 55 m.p.h. 35 n.p.h. 270°/20 m.p.h. return 02 E to target 310 /25 n.p.h. 310 /50 m.p.h. 310 / 35 n.p.h. WUPPERTAL/ELEERFELD.

- 2 -

Zero hour 0105 hrs. Period of Attack 0102-0143 hrs.

Be

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9.

s

1

En route to the target, as an aid to navigation, yellow T. Is were to be dropped at 50°59'N 06°26' E (A) between zero - 11½ and zero + 17½ by 12 Y aircraft on H2S if possible; but otherwise aimed at existing yollow T.I.s. The first four aircraft were to orbit, at the rate of 3° per second, after dropping their markers and before proceeding to the target. On the way here, in order to help the main force to avoid heavily defended areas, yellow T.Is were to be dropped by all those Y aircraft in the same manner at 50° 33'N 07°23' E. Between zero - 3 and zero + 31, 7 Obce Moscuitees were to drop red T.Is in salve on the exact aiming point, and 28 backers-up, between zero + 2 and mere + 34, were to aim green T.Is to overshoot, by 1 second, red T.Is if visible, otherwise the centre of all green T.Is. Buring the first ten minutes all T.Is if possible, but otherwise at the centre of all greens. The most experienced orews were to attack in the first two waves. All Lancesters and Halifaxes vere to carry mixed loads, Stirlings and Wellingtons (except Wellington 423's) incendiaries only. Emphasis was laid on the importance of adhering to the indirect route, which was carefully chosen to give the best chance of avoiding heavily defended zones.

Tining.

6.

7. No. of air	vraft (vellow T. Is)	Time at Targot (H.B. or I.B.)
4 Lancaster 1 Lancaster 1 Lancaster 1 Halifar 1 Stirling 1 Stirling 1 Stirling 1 Stirling 1 Halifar 1 Halifar	$ \begin{array}{c} Z = 11\frac{1}{2} \\ Z = 8\frac{1}{2} \\ Z = 5\frac{1}{2} \\ Z = -3 \\ Z = -3 \\ Z = 1\frac{1}{2} \\ Z = 5\frac{1}{2} \\ Z = -3 \\ $	Z + 2 Z + 3 Z + 6 Z + 10 Z + 14 Z + 18 Z + 22 Z + 26 Z + 30
- Mosquitoes. + (<u>rod T.Is.)</u> Z-3 & Z+1 - Z + 7 Z + 13	5 at 1 min. intervals (2+8)-	<u>Hain Force</u> (Z+6) Sect. 1 Lancs. (Z+2)-(Z+9 (Z+12)Sect. 2 Hals. (Z+9)-(Z+17) -(Z+18) Sect. 3 Stirs. (Z+17)-4
Z + 19 Z + 25 Z + 31	5 at 1 min. intervals (Z+26) 3 at 1 min. intervals (Z+26)	(Z+24) Sect. 4 Hals & Wells. (Z+23)-(Z+31) -(Z+30). * Sect. 5 Lancs. (Z+31)-
+ plus 2 reservos.		/ Borab Loads.

5.0

3.

Bomb Loads - Marker aircraft 8. (3 Stirlings 2 T. I. yellow (LB) + 20 x 8 x 30 I.B. (3 Halifaxes 2 T. I. yellow (LB) + 7 x 1000 G.P. I aircraft (6 Lancesters 2 T. I. yellow (LB) + 1 x 4000 HC + 6 x 1000 G.P. 1 Hosquito 1 T.I. red + 2 T.I. red LB + 1 delay T.I. red No.9 8 Mosquitoes 2 T. I. red + 2 T. I. red LB. 3 Stirlings 1 T.I.green LB + 4 T.I. green + 17 x 8 x 30 LB. 7 Halifaxes 1 T.I.green LB + 4 T.I. green + 6 x 1000 G.P. Backers-up 18 Lancasters 1 T. I. green LB + 4 T. I. green + 1 x 4000 HC + 6 x 1000GP. 190 al 2.4 Routes 9. Orfordness (8,3 & 4 Gps) Southwold (1 Gp) 51°34'N.03°30'E - 50°59'E.' 06°26'E - TARGET - 51°20'N. Plamborough Head(6 Gp.)) 07°30'E - 50°33'N. 07°23'E -50°38'N. 06°00'E - 51°22'N. 03°20'E - (Orfordness (8, 3, 4 & 6 Groups) (Southwold (1 Gp.)) Sorties 1883) 19 No. of aircraft despatched 630 10. (82.7%) (4.8) * abortive sorties (technical defect or (manipulative error.....43) (sickness of crew.......2)...... 46 4.5 (reserve not required..... 1) (7.3%) (5.2%) " airoraft missing...... Ale an terra Teather Experienced Bases: Fit for take-off and return. 11. Route: Little cloud on outward journey. On return a belt of medium cloud, tops 18,000ft. over North Sea. Slight ioing in cloud tops and non-persistent contrails at 17,000ft. Average tind at 20,000 ft. 310°/40-45 m.p.h. Target: Very small amounts of medium and low cloud. Moderate visibility. Half moon, rising at approximately zero + 60 minutes. Sight Photographic Statistics No.of photographs with bosbing examined ground detail * * photographs No.of aircraft estimated from the photographic evidence to have isrrative of Attack Red T. I's were accurately placed by 6 Obce Mosquitces, and the few gaps a the marking were adequately covered by the green T. I's dropped by the backers-up,

..../whose tining was

whose timing was excellent. The main force delivered a heavy and concentrated attack on Elberfeld, with a slight scatter to the south and southwest, downwind of the line of approach.

Daylight Reconnaissance

Reconnaissance photographs show that the town of Muppertal, formed by the 14. amalgamation of the two towns of Elberfeld and Barnen, was almost wholly wiped Barmen was virtually destroyed on .9/30th. May (see report No. 340), and out. The damage the devastation of Blberfeld on 24/25th June was even more complete. is concentrated in the centre of Elberfold, and extends castwards to the district of Unterbarmen, with a little extra Canage to Barmen itself. It is estimated th 97% of the business and administrative centre of Elberfeld was destroyed and that in the 2 raids 80% of the business and residential property in the fully built-up areas of the whole of Wuppertal was cevast ted. Sericus damage was also caused in the town of Ronsdorf, 2 miles south of Barmen, and there were many incidents of damage in Cronenberg, 22 wiles south of Elberfeld. Neither of thes towns was covered by reconnaissance photographs taken between the two raids, so it is not known to which of the two this damage should be attributed.

15. Elberfeld, like Barnen, contained many shall industrial concerns, and several larger undertakings, mainly associated with the nanufacture of textiles and the production of tools and machinery. 13 identified factorics and at least 137 shall factorics or industrial premises were wrecked or seriously damaged. In Ronsdorf and Cronenberg and scattered over the area between them and Wuppettal, at least 89 similar shall factories were destroyed or damaged. 2 of the 13 identified factories made textile machinery, 3 electrical muchinery, 2 textiles, 3 machinery and machine tools, one cellulose lacquers and one pharmaceutical products.

16. Main buildings of the electricity works and the town gas works were damagel, and other utilities, such as the pupping station and sewage plant, the shaughter house and the cattle market were also affected. The railway administrative building and main station buildings at Riberfeld, Unterbarmen and Steinbeck were gutted, and many goods sheds were almost completely wrecked. The power station for the overhead railway and Doppernberg station were also damaged.

17. Many buildings of both the Theishchn Barracks were demolished, and 88 public buildings, including the term hall, the main post office and telephone exchange, 6 other post offices, 2 fire stations and 7 police stations, were destroyed or severely damaged.

18. More than 320 acres of business and residential property in Elberfeld and 25 acres in Barmen were devactated in this attack, taking a total of over 580 acres for the two raids in the whole of Suppertal. This includes an estimated total of 64,000 housing units removed uninhabitable in the built up areas, 30,000 of these being in Elberfeld alone.

Alternative Targets

19. 30 aircraft att.cked alternative targets, in the areas of Cologne (8), Dusseldorf (6), Solingen (4), Kenpen (near Krefeld) (1), Neerpelt (between Turnhout and Roemond) (1), Flushing (2), antwerp (1), Rotterdam (1), Haanstede airfield (2), Sohouwen airfield (1), and near the primary target (3).

Special Equipment

20. <u>Obse</u> 9 Obse Mosquitoes, includin 2 reserves, were despatched to groundnark the target. Accurate attacks we made by 5 aircraft and one reserve, the timing being fairly good, with only 2 short gaps. 2 sorties were abortive owing to failures in the aircraft transmitter and the second reserve was not called.

21. <u>H2S</u> 24 aircraft carried H2S as a navigational aid, none using it to bonb. 3 Y-type aircraft returned early and 4 were missing.

The Eastern chain operated on the Virginia frequency throughout Gee 22. the raid and on the target (Zancaville) frequency from 00.00 to 02.30 hours. The average range obtained on the outward journey was 235 miles and on the homeward route 245 miles. Three aircraft got fixes at ranges of from 360 to 766 miles - two on the Virginia frequency and one on the Zancsville frequency. The enemy was concentrating more of his effort towards jaming the Zanesville than the Virginia frequency; this is shown by the contrast in the number of fixes obtained on each frequency at ranges greater than 250 miles - namely 255 on This southern the Virginia frequency against 47 on the 7 nesville frequency. route to the Ruhr was found to be as heaving jammed as the Borthern one.

Enemy Defences

23. Flak and Searchlights Bombers encountered flak and searchlights as soon as they reached the Dutch coast. The delences of Walcheren, Zuid-Beveland and Antwerp all went into actich, firing heavy flak, and co-operating with searchlights. No further ground opposition was met until the raiders reached the Ruhr, when the entire Duisburg-Dusseldorf-Cologno-Bonn belt opened up, with both predicted and barrage heavy flak, at times intense, and with searchlight cones of up to 50 beans in action throughout the belt. This area, on both outward and return journeys, was uncoubtedly the most heavily defended of the whole route, and the defences of Wuppertal and Remscheid were weak by comparison. Over the target moverately heavy fick decreased as the attack developed, changing from predicted to barrage fire; scarchlights were ineffective. Throughout the whole of the return route, encay defences were active. One pilot described a continuous flak Lelt from Aachen to Brussels, and other reports mentioned ground activity at Julich, Bupen, Antworp, Gocs, Walcheren, Bruges, Knooke and Ostend. 87 aircraft were damaged by flak, mostly over the Dusseldorf - Cologne gap.

24. Fighters Intercepted wireless trailie indicated that fighter patrols were operating in the Venle, St. Trond and Gilze areas as much as 45 cimites before zero hour. There is not sufficient evidence to show whether this was due to an advance warning or to the maintenance of standing patrols, or whether it was the reaction to intruder flights by Fighter Cornard earlier in the night. The result of this unusual fighter activity was the reporting, both by our crews and by German R/T, of interceptions throughout the whole period that the raiding force was over enous territory. R/T control of 14 enery extrols was overheard; these undertook at least 22 pur uits and a to 11 claim. of victories, and 7 other indefinite claims. Of this total of 18 claims, two agreed with the observations of our crews. Returning bonbers reported 77 interceptions, 30 outbound; 9 over the target, 35 homebound, and 3 unlocated. 39 combats were reported, including the large number of 23 attacks, possibly the result of little cloud cover. Only 3 aircraft were domaged by fighter attack.

Casualties

25.			 damaged by	(flak87)	45	
				(fighter 3)		96(15.45)
N	1.	18	94 ²²² 55	(incendiary bombs		
Y				(other causes 1)		11 (S. 1. 1.

Reports by creas suggest that flak was responsible for at least 10 of the missing aircraft (5 over the Ruhr; one outbound at Woenscrecht, and 4 homebound, including one N.W. of Coblenz, one over Antwerp, and 2 shot down by flak ships over the North Sea). Fighters probably destroyed a minimum of 12 airoraft, 7 other aircraft including 4 outbound bombers, 6 homebound and 2 over the target. were observed falling by a number of bomber crows, but the cause of these is uncertain. One Stirling ditched in the sea, the orcw being rescued, and a Wellington crashed on landi ...; owing to a burst tyre.

2 Ju. 38's were shot down, and 2 mole enemy aircraft were damaged.

..../Duisburg.

2

Duisburg

6.

4 Mosquitoes were despatched to make a hurassing attack on Duisburg. 26. : The task was completed by 2 aircraft, which attacked on E.T.A. Two small fires in a built-up area were seen. One sortie was abortive owing to a technical defect, and another to illness of the orew. The raid was unopposed and all returned undamaged.

Mineleying

. .

. 6 mines were laid in the Giron's Estuary by 2 of 4 Stirlings despatched 27: on this mission. The other 2 returned early owing to ongine trouble. There mas no energy opposition, and no comage was sustained. 1.

Laflets .

28. 5 Whitleys acattorod leaflets over Rennes and one over Paris. One Whitley was unsuccessfully attacked by an enemy aircraft, and there was one other encounter. All returned undermaged.

APPENDIX.

Timing of Attack

,

I. Pathfinder Force

(1) 6 Mosquitoes attacked at: 0101, 0104, 0111, 0120, 0123, 0124.
(2) 33 backers-up attacked at: -0106(2), 0107, 0108, 0109(3), 0110,0111,0112(2), 0113, 0114(3), 0116, 0120, 0121, 0122, 0123, 0125(2),0127(2),0130,0131(2),0132, 0137,0138(2). 0126(2)

Hain Force (0107-0143)

Attack	ed 1 - 5 minutes early 19	
	within prescribed period	ŝ.
. .	1-5 minutes late	-

482

Bomb Loads

man

II. Pathfinder Force

.T. I.	only	6 Moscuitoes)
T. I.	+ H.E	3
T. I.	+ 30 lb. inc	30
	3:	39

Main Force

H.E. + 301b. inc. + 41b. inc	293
H.E. + 301b. inc	2
H.E. + 41b. inc	17
H. E. only	25
301b. inc. + 41b. inc	11.2
30 lb. inc.only	3
	482

ED/JT. BC/S. 26342/1/ORS3 14th. September, 1943.

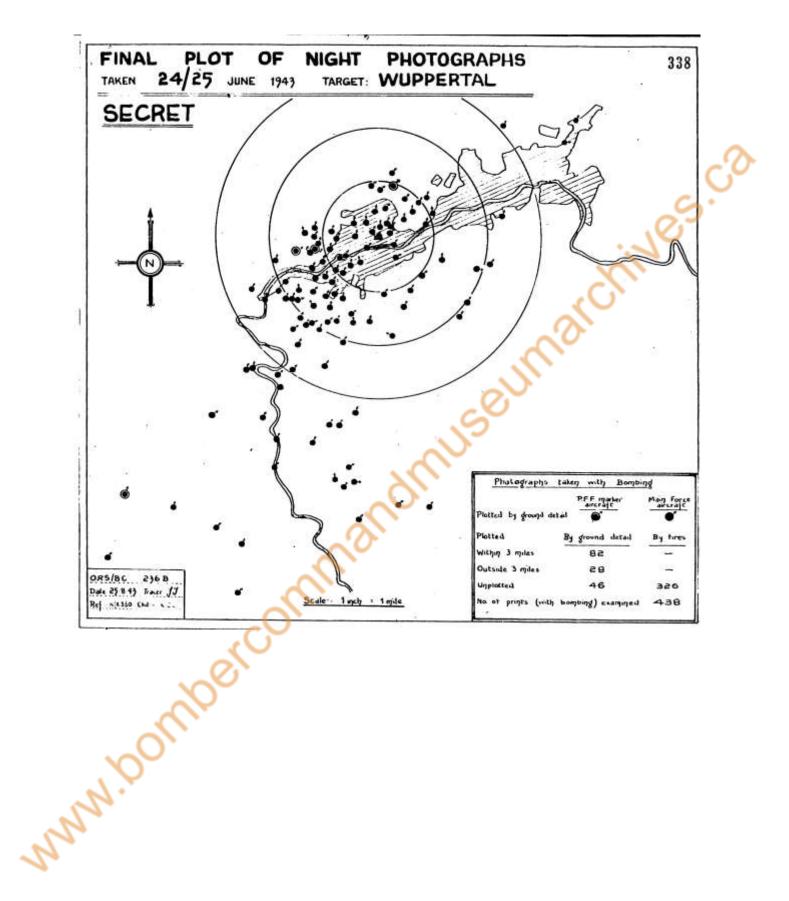
TANGET	GROUP	TYPE	SORTIES	ANC A	WITTING	ABORTI	S SUBSIDE	MIST	D'M	108		IN128CEPT	TCHS	RESULTS
TI SUTURIAL /				PRIM	AREA	OV BR RN DALY TENR	NOT OVER EXEM		FLix	FERTER	NOT E/a.	1072.3K-	NOT LITLICE- ED	
U PERCAL/	8	Nong-IV	9	6	-	1+1#	1	-	-	-	-	-	-	Tons of Om in
C.BERTHERD	PPP.	Stir.I	4	1	1	÷	1	1	-	-	-	-	-	NE. Inc.
	1	Stir.III	2	2	-	-		-	1:		-	1.12	1.2	P 1052-1 120-14
		Hal.IIAV	2	28		-	1 5			1 I I	2	10	- 10 III	63 75
		Long-I	5	5		5	1 2 1	- C -	1.2	2.1	- B. J	1.2	1.2	N 6221 17.5
	1	Long.III	19	15	2		1 1	3	1			1 1	4	
	8	Stir.I	14	3	-	-		1	1	- 1	-	-	-	Krang Banks
	MAIN	Hal. IIAV	2	2	•	-	-	-	1			1.1		8,000 4,000
	VORCE	Hal.IA	5	4	-	-	1 35 1	1	-		÷.	1	1	E) ¥ 34
	1.	Lone.I	3	2	-	-	1	-	17		2	- C	1.	24 - 2 M - 1
		Lang.III	12 28	20	-			2	2		-	1	1-1	
	1.2	Long.III	67	62	2	2	3		2	1.1	4	1 2	5	C
	1	Woll.X	33	28	2		1 -	3	i.	-	14	4	2	
	3	Stir.I	8	6	1	-	-	1	-	-	-	-	-	0."
		Stir-III	-80	64	6		4	6	23+	-	- 1	3	12	
	1	£ –			1 - D		1 1		1.0				I	
	1	Long.TI	14	12	- a t 1	2			+28	1 2 1		1.4	2	
	1	Hal.ILAV	92	72	3	1	11	5	8+		1B	3	6	
	- A.		1999	2012	122	- M - e	1 30 1	1.20	2.0			1 Q		
		Hal-Li	26	23	2	1	- 1	1.2	3+			-	1.	
		Well.I	42	37			4		140	140	14	5 🤌	1	
	5	Land.I	39	31	4	-	3	1	5	-	-	2	5	
	-	Lang. III	64	57	2+1\$	- 1	i i	1	11+1		1.0	-	5	
	6	Hal.ILSV	36	30	÷	-	2	4	4		++		1	A
		Well.X	26	18	2	1	2		2	1,0	18	1	2	
OFFERELL TO	e.L		630	521	30+	7	39	33	84 C+	1+	2B+ 1_C+ 2_+1	23	54	

Reserve aircraft not required. This aircraft also attacked primary. Also hit by flak. . *

336

..../contd:

TARGET	GROUP	TIPE	SORTES	A/C HE	PORTING K ON	ABORTI	VE SORTIES	HISSING		LJK.CE		INTERCI	SPICES	RESULTS
1000188				PRD!. ARRA	ALF. AREA	OVISR ENENCY TUSRE	NOT OVER ENEMY TELE.		FLAK	PIGHTEN	NOT B/A-	ED	ATELCIED.	T
W PERTAL	TOTAL		630	521	30+ 1¢	7	39	33	80+ 5/40 +28	1+ 240	28+ 1+C+ 24+1	23	54	
Cold BURG	8	Mosq.17.	-	2	-	E	2	-	-		-	-	-	P/3.1 to H
BORDE TOT	aL.		634	523	30+ 1¢	7	41	33	80+ 560 +22	1+ 240	23+ 1/C+ 24+1	23	54	
MINELAYING GIRCODE R.	3	Stir.II Stir.III	3	1	~	-	2		2	2	-	2	1	3 mines 3 mines
MINELAYING	TOTAL		4	2	-	-	2	-	-	-	-	-	-	6 mines
LEAPLETS 2.2 REARES	91 91	Whit.V Whit.V	1	1	-				:			- 1 .	1	
LEAFLET TO	TAL .		7	7	-	-	-	-	-	-	-	1	1	
TOTAL		5	3 5	532	30+ 1¢	7	43	33	54.C+ 22	1+ 210	28+ 1C+ 2+1	2,	55	
n'.	6	1	¢ Th	is airer			CK NOT	AVAILA	BLE					



NIGHT RAID REPORT NO. 361

COPY NO.

BONBER CONMAND REPORT ON NIGHT OPERATIONS - 25/26th. JUNE, 1943.

GELSENKURCHEN: Minelaying:

SUMMARY

GELSENKIRCHEN

1. A force of 473 aircraft made an attack on Gelsenkirchen, which was skymarked by Obce Mosquitces. The target was almost obscured by cloud, and the serviceability of the Obce aquipment was low, so that many aircraft had to bomb on B.T.A. No P.R.U. cover having been obtained until after Gelsenkirchen had been bombed again, and no night photographs having been plotted it is not possible to assess the accuracy of the attack but it does not appear to have been successful. Host of the 30 aircraft lost were probably shot down by enemy fighters, 4 of which were destroyed.

Minelaying

2. 8 Wellingtons of 1 Group laid a total of 16 mines off the Frisian Islands, returning without damage. 56 mines were also laid off the coast of France by 22 of 25 aircraft, despatched by 3 and 4 Groups. One of these aircraft failed to return.

Meteorological Forecast

3. Estimated midnight position of fronts: occluded from 64°N. 09°E - 60°N10°E - 55°N.07½°E - Zuider Zee, becoming warm to Paris and cold to Dover to western channel.

Home Bases: fit for take-off and return, with variable strato-cumulus cloud at about 20,000ft. possibly with considerable local clearances for return. Visibility moderate throughout the night, apart from local smoke troubles in 1, 5, 91, 92 and 93 Groups.

Germany:- amail amounts of cloud, with local ground haze in central and E. Germany.

Denmark: much medium and low cloud.

France: broken layer cloud in N.W., but shall amounts of cloud in central and S. France, with moderate visibility.

Route to Ruhr: cloudy; strate-cumulus, base about 1,500 - 2,500 ft. with broken layers above; probably no cloud above 10,000ft.

Ruhr: aloudy conditions will persist, the cloud being in layers between 2,000 ft. and 10,000ft., and mainly 7-10/10ths. Visibility anderate.

Hamburg: total cloud probably 10/10 ths, with local tops above 20,000ft. in tain.

Frisian Islands: considerable strato-cumulus at about 1,500ft. with moderate visibility.

Brest: possibly 10/10ths cloud at 1,000ft., with patches of stratus or sea fog. Lorient and southwards: fine, with moderate visibility.

Winds: 700mb/290°/25 m.p.h.; 500mb./310°/45 m.p.h: 300mb/310°/70 m.p.h.

Persistent contrails are expected above 18,000ft. Higher medium cloud associat with trough will have passed E. of Ruhr before 0100 hours.

CKLSENKIRCHEN

Plan of Attack

Zero hour 0120 hours

Period of attack 0120-0154 hours.

En route to the target, 7 6boe Mosquitoes were to \dot{c}_1 red steady tracking flares at 51°49'N. 07°06'E (21 miles short of the sclease point). At 51°40'N. 07°06'E (11 miles short of the release point) greatered warning flares were to be dropped by the same aircraft. At five minute intervals betwee zero and zero + 30, release point flares (red with green stard + 1 white) were to be dropped so that bombs aimed at them by main force crew:, on a heading of 194°N. and I.A.S. 165 m.p.h., would hit the aiming point. If no skywarkers were visible on arrival, crews were to bomb on E.T.A. All flares were to ignite at 14,000. Three further Oboe Hosquitoes, carrying out a training flight, were to attack at Z + 10, Z + 45 and Z + 50 respectively, each with 3 x 500 H.C. bombs. The main force was to be divided into seven sections, each of about 70 aircraft, with the best Lancaster crews of 1 and 5 Groups in the first two waves. Lancasters and Halifaxes were to carry mixed loads, but Stirlings and Wellingtons (except Wellington 423's)were to carry incendicries only.

Timing

5.	Nosquitoes	Main Force	<i>.</i> :
	Zaro	Sect. 1 Lancasters.	Zero - Z + 4
	Z + 5	Sect. 2 Lancanters.	L+5-3+9
	Z + 10	Sect. 3 Halifaxes	Z + 10 - 3 + 14
	Z + 15	Sect. 4 Stirlings	Z + 15 - Z + 19
	Z + 20	Sect. 5 Halifaxes & Wellingtons	Z + 20 - Z + 24
25	3 + 25	Scot. 6 Lancaster & Halifaxes	2 + 25 - 2 + 29
	2 + 30	Sect. 7 Lancasters	z • 30 - z + 34

plus 2 reserves

Route

6. Base - 52°46'N. 04°40'E - 52°00'N. 07°05'E - GELSENKIRCHEN - turn right -Harderwijk - Egnond - base,

Sorties

www.x

\sim	No.	of	airoraft despatched 473
N	u		reporting attack on primary area
/			" " " alternative area 6 (1.3%)
		n	abortive sorties (technical defect or
			(manipulative error
	848		(attacked by fighter 1)
			aircraft missing

Weather Experienced

8. Bases: Pit all night.

Route: 7-10/10ths. cloud, tops about 10,000 ft. breaking up near bases on return. Visibility generally good. Wind: 15,000ft./310º/45-55 p.p.h;/20.000ft/320º 20,000 ft./320°/60-70 m.p.h. Half moon rose about 0230 hours, on return route.

Target: 7-10/10ths cloud, tops 8-12,000 ft., surface wind lightly northwesterly. Moon below horizon during the attack.

Night Photographic Evidence.

9. Owing to cloud, no night photographs were plotted.

Marrative of Attack.

10. Only 4 Mosquitoes dropped release-point flores, the first being 10 minutes late. The second and third attacked almost simultaneously at zero + 14½ minutes, so that skymarkers were available for only 10 minutes of the allotted period. The fourth Mosquito released at zero + 34 minutes, when the attack was almost over. Many orews bombed before the first skymarkers ignited, and many others bombed in the gap between the extinguishing of the third and igniting of the fourth load of flares. Reports from some of these aircraft that they bombed on release-point . flares indicate that decoy flares were put up by the enemy, but a few orews suggested that the imitations were imperfect.

11. The attack appears to have been scattered. This was due to the lateness of the first Mosquito, and the unserviceability of the Obce sculpment. There were also many reports that the forecast winds were inaccurate, and that the flares drifted rapidly. A large number of crews reported that the flares ignited too high (at 18-20,000 ft. instead of 14,000 ft.), and that it was therefore impossible to bomb them.

12. Since no night photographs were plotted and no reconnaissance was undertaken before Gelsenkirchen had been attacked again, there is no direct evidence of the course of the raid. The Germany computing announcel that the attack was over west German territory, particularly Bochum.

Daylight Reconnaissance.

13. No daylight reconneissance was made over Gelsenkirchen until 24th and 25th July. Damage shown on these photographs includes that caused in the raid of 9/10th July, and is included in the report (No. 374) for that night.

Alternative Targets.

14. 6 aircraft attacked alternative targets in the area of Essen, Dortmund, Ickern, Buer, Hengelo and Winterswijk.

Special Equipment.

15. <u>OBOE.</u> 9 Oboe Mosquitoes, including 2 reserves, were despatched to mark the target, but only 4 aircraft, including one reserve, attacked. The first sky-Derkers were 10 minutes late, and 2 more loads were released almost simultaneously 5 minutes later. The fourth aircraft did not attack until the end of the raid (0154 hours). As a result the target was only marked for 10 minutes of the allotted period of 35 minutes. The remaining 5 OBOE sorties were abortive owing to failures in the airborne OBOE equipment.

16. 3 Mosquitoes equipped with Obce were despatched to drop bombs for training purposes after the conclusion of the main attack. 2 aircraft bombed successful on OBOS, but the third made a visual attack as the OBOS transmitter had detonated.

17. <u>GEE.</u> The Eastern chain operated on the Virginia frequency throughout and on the target (Zanesville) frequency from 0035 to 0205 hours. The average range obtained on the outward journey was 240 miles end on the honeward route 250 miles. The best ranges were all obtained on the Virginia frequency; conditions were almost precisely the same as those encountered on the previous might. Jamming was intense and of the usual type.

Enemy Defences.

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18. <u>Plak and Searchlights.</u> Intense heavy flak was reported at Gelsenkirch and over the Ruhr, initially accurate predicted fire, and later an intense barrage round sky-markers. A small amount of flak was also encountered at Ansterdam, Ijmuiden, Den Helder, and Egnond. In the target area cloud rendered the searchlights ineffective, and only a few were seen en route, mostly at Amsterdam, where comes of 7 to 20 beans were working in co-operation with heavy flak. 63-aircraft sustained danage from flak, mainly in the Ruhr area. This large number was almost certainly due to barrage fire concentrated around the sky markers.

19. <u>Pighters.</u> Intercepted Wireless Traffic revealed considerable control: night fighter activity, mainly during the late stages of the raid. Patrols operated from Bergen/Alkmaar, Gilzo/Rijen, Twente/Enschede, Noordwijk and Venly 11 patrols were overheard, making 37 pursuits. One unsuccessful attack was reported, but there were 22 claims of victories in the areas of Bergen/Alkmaar Arnhem /Delen (2), Twente/Enschede (5), Venlo (3) and Gilze/Rijen (7). 84 int ceptions were reported, including 22 attacks, (5 outbound, 5 over the target an 12 homebound), 33 other combats (11 outbound, 7 over the target and 15 homebour and 29 approaches (6 outbound, 14 over the target and 9 homebound). This show an increased activity and a relative increase of attacks on the homeward route.

Onsualties.

- - -

20.

x one also damaged by flak.

Encay wireless traffic and observations by crews suggest that 5 aircraft were shot down by flak and at least 20 by fighters. The flak losses occurred at Ansterdam (2), in Dutch coastal areas (2) and over the target (1). Losses to fighters were mainly on the return route. 2 Ju.88, one Me.109 and one unident fied encay aircraft were shot down.

Minelaying.

21. 8 Wellingtons of 1 Group successfully laid 16 mines off the Frisian Islands, without incident.

22. 3 Group despatched 7 Stirlings and 2 Lancasters to lay mines off La Pallice and in the Gironde Estuary. A total of 28 mines was laid by 8 aircraft but the ninth (a Lancaster) was missing without trace. The other Lancaster was intercepted by an enemy aircraft, but no combat developed.

23. 14 Wellingtons, out of 16 despatched by 4 Group, laid 28 mines off Lorient and St. Nazaire. 2 aircraft returned early, and one was damaged by fi

...../APPENDIX

APPENDIX.

Timing of Attack. Pathfinder Force. 1. e5.0 4 Mosquitoes attacked at: - 0130, 01342(2), 0154 hours. Main Force. Attacked within the prescribed period (0120-0154) . . . 385 2 387 2 Mosquitoes (under training) attacked at 0159, 0204 hrs. Bomb Loads. Pathfinder Force. II. Main Force. H.E. + 30 lb. inc. + 4 lb. inc. . 279 15 H.E. cnly 30 lb. inc. + 4 lb. inc. . . 93 387 3 Mosquitoes (on training flights) carried T.I. + H.E.

EMO/IA3. BC/S.26342/1/ORS.3. 18th September, 1943.

TARGET	GROUP	TYPE	locitous		PORTING	LABORT 1	VE SORTIES	MISSING		MAGE		DALKBON	PTIONS	RESULTS
		24		PRIM-	ALT. AREA	OVER ENENCY TERR	NOT OVER ENEWY THEFT		FLAK	TER.	INOT INIMY ACTION	ED	NOT ATTACK- ED.	H.E. Inc
GELSEN-	8 P.F.F.	Mosq. IV	12*	7	-	5	-	-	1	-	-	-	-	P. 587.8 719.
R TRACEMONT.	1	Lanc.I Lanc.III Well.X	2.64 20	18 52 8	2	-	3	32	1 AC 2 AO+4 1	=	=	ī	6	4. 17.4 8. N. 42.0 44. Heavy Boobs
	3	Stir.II Stir.III Lano.II	66 12	58 9	-	-	3	5	+7	1 40	1,40	32	12	8,000 4,00 P. 8 171 4. 2 4
-	-	Hal.II & V Bal.In Woll.X	87 19 22	75 16 19	-	2 1	7	3	3 40+9	-	1E +x	5	8	<u>x. 1 11</u>
	5	Lone.I Lone.III	37 77	31 64	1 2	-	1 8	\$	1E + 8 2AC+15	-	1 ^B .±	1 4	8 14	
20	6	Hal.I & V Well. X	28 8	23 . 8	2	:	2	3	1	- 1 B	-	3	6	
ELSENCIACHEN	TOTAL		473	394	6	8	35	30	12+843	24C +1+1B	15+13	22	62	
INRLAYING PRISLAS	1	Well.I	8	8	8	-	-	-	-	-	-	-		16 rdines
A PALLICE	3	Stir.I Stir.III Lano.II	2 1 2	2 1 1	-	-	Ξ		-	-	Ξ	-	-	6 minos 3 mines 6 mines
IRONDS R	3	Stir.I Stir.III	3	3	2	:	2	-	-	2	- 1	:	-	1 mines
OR DENT	4	Well.X Well.X	8	6	-	-	2		-	-	-	-	-	2 minos
States in the second states in	OTAL		33	30	-		2	1	1	-	-	-	7 +	16 mines 72 mines
TOT	4 L		506	424	6	8	37		1F+P 10 + 53	18+ 2AC+1	1E+18 34C+1	22	63	

3 On training flight
 x Also damaged by flak - included in flak column.

in La China ana

RAID TRACKS AND BOMB PLOTS NOT AVAILABLE

5.

NICHT R. ID REPORT NO.

COPY NO. .

14 - 14 - 14 - Je

.... Weather Experienced '

BOHBER COLORAND REPORT ON NIGHT OPER TICKS 26/27th JUFE, 1943.

Hemburg: Duisburg: Minclaying: Leaflets.

SU92.RY

) + (+, s1)

Hamburg: Duisburg

1. 4 Mosquitocs of No. 8 Grou were despatched on a harassing raid against Hamburg and 3 against Duisburg. .11 attacked their targets and returned undamaged. - 19 No. 🗸

Minelaying

2. 12 Wellingtons, out of a force of 16, aia 23 rines off Brest and Lorient. One aircraft did not return. 5 F 17.474 Nara P. Spectra ...

Leaflets

3. - 13 aircraft, out of a force of 14, dispersed looflets over Rennes, Tours, Le Mans and Caen. The remaining direraft was unable to pinpoint, and dropped

Meteorological Forecast

Midnight frontal positions:- occlusion from 57°F. 01°E. to Zuyder Zee to 50°N, 1010E. to Munich, becoming cold along the .lps to ". Spain.

Bases :- little cloud, apart from a strip of 8-10/10ths strato-cumulus in tro layers down the east coast covering Yorkshire and East inglic; base ',500', locally 1,000'. Visibility moderate to good, but local snoke troubles, particularly in N. of 6 Group. .

Germany:- Fine in Hamburg - Kiel - Brenen area, with good visibility and little cloud. Broken medium cloud over Central Germany 7. of frontal belt. Noud to great heights with rain in S. Ruhr: three quarters cloud cover in Levers up to 12,000.

France Fine with moderate visibility, except in extreme S. Less than /10ths strato-cumulus over W. coast, base 2-3,000'.

lorti	les	2		1) 1000 - 1000	· ·		Boubin	u kir	elaying	Leaflets	
5.	(a)	No.of	aircra	ft desp	atched.		7		16	14	2000-0
	• (ъ)	n 11				ary area.		(5) (6)	12	13	
7	(0)		.11			ative are			0	1	
1.1	(a)	n 11	aborti	ve sor	ties		0(1	reather.	2)		- 23
		- *** 4	. u	÷.,	jti	ii ea	' '	tochical lefect		•••••••	- s.g.*
	(e)		aircra	"t miss	sing		0	7.1.0 S S S S S S S S S S S S	`o '	. 0	8

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Weather Experienced

6. Bases:- Fit apart from low stratus (base 600') in East Anglia and Lincs. towards dawn.

Humburg:- Large amounts of layer cloud over Forth Sea, tops to 8,000', breaking towards target to small amounts. Good visibility.

Duisburg:- 7-8/10ths. layer cloud, tops 2,000'. Good visibility.

France:- Hazy. No cloud, apart from 10/10ths at Cacn. Moderate v.sibility.

Snerry Defences

No neon.

7. No serious opposition was encountered from ground defences, although two leaflet aircraft suffered slight flak damage over Rennes and Caen. 67 sorties by controlled fighters were overheard, 10 of which were active against British aircraft. Areas of activity included St. Brieue, Bremen/Zwolle, Kiel/Plensburg and Hanburg/Deutsche Bucht. No attempted interceptions, clains or combats were heard. Leaflet aircraft reported 2 approxches, that no combats developed.

Casualtics

8. One minelayer did not return from Breat. Nothing was heard from it, and there is no cvidence of the cause or place of loss.

IGH/JT. EC/3.26342/5/OPE 30th. ...ugust, 194

TARGET	9.0	1225	1	./C REPO		"BOFLIAS	SORTIZ	MISSING		LHGE		INTIRCE	PIIONS	RESULTS
	0			PRDLEY	ARE.	OVER EXENT TERRITORY	A P OVER INDEX VER STORY		PL.K	FIGHER	NOT ENERC: ACTION	TL.CK- B-/	NOT 1TCK ED	
H.MBORD	8 P.F.F.	Wong-IV	4	4	-	+	-	-	-	-	-	1.00	-	P. 3.1
DUISBURG	8 P.F.F.	Mone. IV	3	3	-	-		-	-	-	-		-	P.2.3
BOMBIT TO	LL		7	7	-	1.12	-	-	-		-	127	- 1	an Brine;
LORIBOT	4	Well.X	8	8		-	-		-	. <u>.</u>	-			15 minor
BREST	6	Woll.X	8	4	-		3	1	-	-	-	-	-	8 mines
TELATE	TOT.I.		16	12		-	3	1	-		-		· _	23 mines
TOTAL COLOR	93 93	Woll.III	5	5			-		1	-	-	-	1	
TOURS		Well.III	2	2		-	-	-	-	-	-		-	
LE MLS	93	Well.Ic.	3	3		-	-	-	-	-	-	-	1	
Califi	93	Whit.V	4	5	1			-	1	-	-		-	
LE FLETS TO	T.L		14	13	1			-	2	-	-	-	2	
TOTA	1.		1 37	32	1	-	3	+ 1	2	- 1	- 1	-	2	

RAID TRACKS AND BOMB PLOTS NOT AVAILABLE

LICHT HAID REPORT NO. 363

COPY NO.

ALL 1.

BOMBER CONCAST HERONT ON NIGHT OPER. TIONS 27/28th JUNE, 1943.

Minelaying: Leaflets.

SUDELRY

Minelaying

25 aircraft, out of a fonce of 30, laid 150 mines off the Prisians and the French "tlantic coast. One ai craft was lost.

4 44

128

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Leaflets - 1 - 1 ----4 aircraft dispursed leaflets over Paris without loss.

He tecrological Forecast

3. 6 . 1.

the grave the first

3. Midnight frontal positions - (i) weak cold from 54 1.02°E to insterden to Upper Rhine, then cold to S. f Vicnna. (ii) cold from S. . Morvey to Brenor to S. of Breslau.

Bases :- .- Imost cloudless. Local stratus towards dawn. Poor visit ility 40 miles inland from east coust after 0400, not becoming widespread. Nost bases fit till 0400, and some all night. ____

Germany: - 8-10/10ths strato-cumulu near front (ii), with considerable medium cloud and showers. Good breaks 8. of front. Ruh :: 4-9/10ths., base 2,000', tops 3-4,000', noderate visibility. Harburg: strato-cutalus may brook to 5/10ths.

Prance: - Little or no cloud. Fine on W. coast. Moderate visibility.

in the set of the second se Frisians:- 7/10ths or nore strato-cumulus, base 1,500-2,000' tops to. 6,0001. Chance of breaking to 5/10 ths.

Sorties

Minelaying Leaflet

4. (a) No. of circrart des, tched	20
(b) " reaching primary area	25
(c) abortive sorties (weather	. 2)
(planted wild	· 1)
(d) " " aircra't missing	1 0

Weather Experienced

Bases - Cloudless at cusk, apart from 10/10ths strato-cumulus at 1,200' in coastal strip off Fast inglia. Industrial mist and fog patches from 0500, in the patches of low stratus in

Frisians:- 10/i0th: str: -cumurus, ase 1,300' tops 2,500'. Occasional patches at 800'. Good Visibil ty.

W. France: - No cloud. Ecty. No moon.

1994), Anna 1994, An Znony Lefences'

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6. Moderate heavy flak was encountered by leaflet aircraft at Rouen, St.Val and Paris, accurately predicted. ... single hit was sustained from heavy flak of the capital. Minelayers in the Bay of Biscay met noderate light flak from the usual coestel areas, and fairly intense her y flak with searchlights at Nantes and La Pallice. 33 sorties by controlled lighters are overheard, but only 2 were active against British ircraft in the areas of Declen and Nantes. 2 interceptions were reported at Nantes and Teachy Head, but in both cases our aircraft took successful evasive action.

Cusúalties ·

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7. One minelayer was lost or in Pallice without evidence of how or where.

MIH/JT. BC/S. 20342/5/ORS. 30th. August, 1943.

CuPTR:	CROUP	TIPE	SORTERS		PORITING	BORTIV	S 30.2785	MISSING	-	Art line		1.7.20.292	IONS	RESULTS
	Giote				.LTIPROTIVE	OVE: ENENTORY	2017 OV22 202011 202011		FLax	AIGNUS,	YOU ENDIY 	TEPTCARD	NOT ATLACKED	
MINGEL YING GIRONDE	1	Lanc . III	9	7	1	-	2	-	-	-	-	-	1	42 mines
LI A LLICE	11	Long. I	4	3			-	1						18 mines
FRISL NS	3 .	Stir. I Stir.III	3	3 10	-		- 2			-	-			60 mines
MDOL.YDG	TOZ.L		30	25		-	4	1		-	-		1	150 mines
P JRIS	92	2822-201	4	4	-	-	-		1	-	-		1	+
TOTLE			34	29	-	-	4	1	1	-		-	2	

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itio	·	*****	MIGHT RALD REPORT NO.
V Jaho !	(* * *		COLL NO.
5 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	1.00	VA SE ALL	
19	BOMBER CON	MAND REPORT ON NIG	HT OFERATIONS - 28/29th JUNE, 1943.
	· · · · ·	COLOGNE: Hamburg	Minelaying.
		SUBDIAR	r.
		12	

and the second second

COLOGNE.

211

A successful sky-marking attack was made on Cologne by 608 bombers. . Very 1. extensive damage, probably caused by this raid, occurred around the aiming point on the west side of the river. Reconnaissance was made after the ground-marking raid of 3/4th July, which was shown by night photo raphs to have fallen mainly on the east of the Rhise; go that although no definite statement can be made, it is likely the this was an accurate and concentrated roid. 25 aircraft failed to roturn, mainly owing to night fighters, B of which were destroyed or probably destroyed. ter Hi St M. A. di no State of the state

Hamburg.

Z. A harassing reid on Homburg was carried out by 4 Mosquitees without incident 14 . .

Minelaying.

· 2-24 . 6 Stirling's laid a total of 19 mines in the Gironde Estuary, all returning 3. undamged. ANT Soft and

Meteorological Forecast.

Anticyclone over British Isles, remaining stationary.

Home bases: Fit for take-off in all Groups, except some northern stations of 6 Group, which may have poor visibility in smoke. Coastal stations 8-10/10ths strato-cumalus at 1,000/1,500 ft, with moderate visibility. Inland stations will have small empunts of cloud and moderate to good visibility. For return up to 0500 hours, strato-curafius is likely to spread inland during the night, affecting all stations is except perhaps those in 4 and 6 Groups. Cloud will be 8-10/10ths at 1,000/1,500 ft, possibly with lower patches at high level stations. Visibility 2,000 yards or mon Little cloud in 4 and 6 Croups. Visibility more than 2 miles in 4 Group, but only 1-2,000 yards in 6 Group, where fog is expected to develop in some stations after hours. Moreton-in-Marsh, Honoybourne, Pershore and most of 92 Group stations will available for diversions.

France: fine, with moderate visibility.

Germany: In N.W., strato-cumulus, with good cloarances in Hamburg, Bromen, F area, and a few breaks over the Ruhr. Contral Germany, small abounts of cloud. Visibility moderate to good except in the Ruhr; where industrial haze is expected. 11

Cologno and route: abbably 10/10ths strato-cumulus, base 2,000 ft. tops -- j000 ft.

Hisburg: small amounts of cloud apart from possible cirrus. Visibility good ·· · · ·

Winds:	750'm.b.	500 n.b.	300 mb.
Basos S. of 52°N to 3°E	010 ⁰ /25 m.p.h.	020°/35 m.p.h.	360 ⁰ /40 m.p.h.
" N. " " " " "	350 ⁰ /25 m.p.h.	350°/35 m.p.h.	020 ⁰ /45 m.p.h.
3°E to Cologne	010 [°] /40 m.p.h.	010°/40 m.p.h.	020 ⁰ /60 m.p.h.

..../OOLOGNE

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COLOGNE.

2.

1 1.etc.

Plan of Attack.

5. Zero hour. 0140 hours.

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Period of Attack 0136-0219 hours.

· ** : : : : : :

En routo to the target, 9 Obce Mosquitoes were to drop green steady flores at $50^{\circ}41$ 'N $06^{\circ}45$ 'E., 18.7 miles S.E. of the release point. At the target, between Z - 4 and Z + 35, the Mosquitoes were to drop red T.I's in salve on the aiming point and also release point flores (red with green stars + white) in case the groundmarkers could not be seen through cloud. Between Z + 2 and Z + 39, 32 backers up were to aim green X.I's to overshoot, by 2 seconds, red T.I's if seen, otherwise the estimated centre is all green T.I's visible. If no T.I's could be seen the backers up were to be been force, and aim their bonds at the release point flores, bringing their own T.I's back. Grows of the main force, divided into 8 sections of about 70 air-craft each, were to aim at red T:I's or at the estimated centre of all green T.I's, but, if no T.I's could be seen, they were to aim at the release point flores on an exact hedding of 030° M at a speed of 165 m.p.h. (I.A.S.). If no marker of either kind was visible on arrival, crews were to bomb on E.T.A.

12 12 a 11"

6. Between Z and Z + 10 the T.I's were to cascade at 3000' or 6000' and after Z + 10 at 10,000'. All flores were to ignite at 12,000'. All Longasters and Halifaxes were to carry mixed loads; Stirlings and Wellingtons (except Wellington 423's) were to carry incendiaries only. The most experienced crews were to be detailed to attack in the first three sections. As a training flight, an Obee Ibsquite, carrying 3'x 500 M.C. bombs, was to attack the target at Z + 40 hrs.

Tining.

-zan experience and the second second		
7. Mosquitoes	Backers-up.	Main Force.
(2-4) & zero		Sect. 1 Lonos. Zero - (2+4)
ene en l'étaite	2 at (Z + 2)	including the maintains
10.5	2 at 1 min. intervals (2+3)-((2+4) - $(2+5)(2-5)$
(Z+5)	4 at 1 min.intervals (2+6)-	Sect.2 Lanca (Z+5)-(Z+9)
····(2+10)	4 at 1 min. intervais (2+0)-	(2+9) Seat.3 Hals.& Wolls. (2+10)-(2+14)
(2110)	4 at 1 min. intervals (Z+11).	-(2+14)
(2+15)		Soct.4 Stirlings (Z+15)-(Z+19)
•	4 at 1 tin. int rvals (Z+16).	-(2+19)
(Z+20)		Soct.5 Wells: (Z+20)-(Z+24)
(a. oc)	4 at 1 min.intervals (2+21)	-(Z+24) [+ - : h_(-:)
(2+25)		Sect.6 Hols. (2+25)-(2+29)
(Z+30)	(2+26)	
. (4+)0)	4 at 1 min.intervals (2+3:)	Suct.7 Lonce. & Hals, (2+30)-(2+34
(Z+35)		Soot.8 Lancs. (2+35)-(2+39)
	4 at 1 min.intervals (2+36).	-(Z+39) -
240	and the second	
		and the second
NOT .		State and the state of the state
ond Loads - miri	kor aircraft.	the state of the s
11 Magarit	and - (1+1 Plana aman) + 1+1	flaros (2 rod/groen + 1. white) + 2 T.I.
		red (1 LB)
	gs - 4 T.I. groon (1 LB) + 3	
10 Halifax	cs = .4.7.1, green (1 LB) + 1	x 2000 HC + 9 x 500 MC.
10 millionst	ers - 4.T.I. green (1 LB) + 4	x 4000 HC + 6 x 1000; MC.
Route .	S. S	and a promy of the
		Network Contract of Manager
9 Base - 51° 3°48'E - Base.	22 N. 03 ⁰ 20.'B - 50 ⁰ 28'N 06 ⁰ 32'	8 - TARGET - loft turn - 51°35'N
(а,	
		/Sortics

rtics. . of aircraft despatched . 608 . . . reporting attack on primary area 515 " " alternative area 380 P. . abortive sorties (technical & manipulativo defect . . 52) (naviational orror . (sickness of onw . (lato (attacked by fi hters aircraft missing , . . .

ather Experienced.

Beses: - Fit, with little cloud morth of the Wash, and some smoke haze in 6 Group; /10ths strato-cumulus at 1,000-2,000 ft. over East Anglia. Visibility good.

Route and Target: 10/10ths layer cloud, tops variously estimated between 4,000 1 12,000 ft. but most frequently as 5,000 ft. Thickness more than 2,000 ft.

· (****)

A St. March

1. 1. 2. 4 1

Surface wind: N.N.W./5-10 m.p.h. Wind at 10/15,000 ft. N'ly/30-35 m.p.h. 20,000 ft. 010 /45-50 m.p.h. A. Wanter

otographic Evidence.

+11 No night photograph was plotted owing to cloud.

13

funce.

rativo of Attack.

Owing to technical defocts the first markers were released 11 minutes late and ereafter at irregular intervals. The red T.I's disappeared rapidly in cloul, so ot it was useless to back up the marking with green T.I's. Thus, the main force ha ther to bomb on E.T.A. or wait until a skymarker was released. A large number of ws woited, and so , despite the lateness and irregularity of the markers, a very ccessful attack was delivered. Unfortunately no P.R.U. cover was obtained bei re logne was attacked again, on 3/4th July. However, the aiming point for the skyrking raid was on the west of the river and for the other raid on the cast. Also ght photographs for 3/4th July show a good concentration on the dast and very fort phs of the west of the river. The very extensive damage on the west can therefore attributed mainly to the raid at present under consideration, although some of it may we been caused in the mid of 16/17th June for which incomplete cover was obtained.

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24 4.

..../singlo

ylight Reconnaissanou.

Reconnaissance photographs were taken on 4th July, but Cologne had received ther attack in the intervening period. Damge shown on the photographs therefore luded that caused by both raids. Several hundred acres of fresh devastation were in on both sides of the Rhine; ruins on the east bank were still smoking. It is bable that most of the damage on the west side was caused by the raid of the 28/29th w, but as it is impossible to separate the incidents exactly an account of the total age due to both raids, and possibly also to the attack on 16/17th Junc, is given in ht Raid Report No, 368 for 3/4th July.

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ternativo Targets,

6 siroraft attacked alternative targets in the areas of Euskirchen (3), Eupen, then and Beoloo. 1 12

icial Equipment.

OBDE. . 9 OBDE 'baquitoes and 2 reserves were despatched to mark the target, but ly 6 aircraft, including both reserves, completed the task. The first to attack was minutes late, and the rest attacked at irregular intervals during the next 35 minutes. "other 5 aircraft all experienced technical trouble with the OBOE equipment. The

single OBOE Mosquito sent to drop bombs at the end of the raid for training purpo attacked visually owing to failure of the OBON equipment.

17. <u>H2S.</u> 19 aircraft carried H2S as a navigational aid, and 8 of these used to determine or check their positions when bombing. One aircraft returned early and 2 worv lost.

18: CEE: The Eastern Chain operated on the Virginia frequency days are a raid and on the target (Zancsville) frequency from 0030 to 0300 hours. The avera raid and on the target (Zancsville) frequency from 0030 to 0300 hours. range obtained on the out, rd journey was 280 milds and on the honeward route 270 9 sireroft obtained fixes at the target, 360 miles from the Master Static milos. The average ranges obtained on this occasion showed an improvement of the order of 35 miles over those reported in recent raids on the Ruhr. This improvement was probably due to an increase in signal strength of the Master Station, which was t result of efforts to bring this station to absolute maximum efficiency following reports from navigators of weaker reception from this station than from the aloves Jamming was of the same type and strength as is reported on the Wuppertal roid of 24/25th June, when this route was last used.

Enemy Defences.

19. Flak and Searchlights. The bombers encountered heavy predicted flak from Walcheron as soon as they crossed the Dutch coast. Further inland, flak was again reported from Antworp. Between Aachen and Liege the force crossed the boundary : the Ruhr defences, and from here to Manchen Gladbach on the return journey, defence overywhere active. Over Cologne 9/10ths cloud prevented searchlights from operating successfully, and the fire was mainly barrage, directed particularly an the sky markers dropped by OBOE aircraft. Some light flak and predicted heavy fl were also reported. The defenses of Eindhoven and St. Trona went into action against returning bombers. 75-aircraft wore daraged by flak. The large number probably due in part to the use of sky markers, with the consequent concentrated barrage, and also to the long distance which bombers had to cover within the Ruhr defensive Bysten. The prevalence of barrage fire would explain the low flak loss

Intercepted Wircless trailid for the night indicates that con-20. Fighters. trolled fighters were operating over a wide area in the Low Countries during the r Details were heard of 16 pursuits against the Cologne raiders and accompanying Fig Occurrend intruders. Of these all but four appeared to be against returning aircres 9 claims were made, and one might-fighter reported on unsuccessful attack. It is interest to note that the WT of one patrol sufficiently ceased at about the same time, and in the same area, as that in which a returning Halifax reported destroying an Bane of one of Fd.190.

104 interceptions, including 33 attacks, 37 other combats, 32 approaches a 2 followings were reported by returning aircing't. It is clear from these reports from the Wireless traffic, and from the analysis of aircraft destroyed, that fight were unusually active on this might. 46 int reptions took place on the outbound 42 on the homebound route. 9 aircraft were comprediby fighter attack.

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Casualtics.

MMM

21. No	aircraft	missing	•		•			10.22	Sec. 2	•	٠	1300		25 (4
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5		100	(ъ)	fighte	rs	1			. 9)					
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112	2020/06:00	++ 71-	(a)	incend	iorv	bont	Da.		. 2)		·7	2576		· ·
		·· 3.5.2.+	60	fire f	men	frier	vlbr	n/c	1 15		÷			
a	8. xa	1 add	(f)	other	onus	es .			: 35	1				
						÷								

Analysis of observations of aircraft shot down indicates that at least 17 losses were caused by fighters; at Hasselt, Aachon, Antworp, Bonn, Liege (2) (all outbound); Cologne, and Munchen-Gladbach, Eindhwen (2), Roermond; Hoogstracton an Dutch Islands (5) (all homebound). Only 3 losses can definitely be attributed to flak, 2 over Cologne and one over Lachen. 3 energy aircrift fore destroyed, 5 probably destroyed, 5 derived and one probable debuged. 4 of the reports of energy fighters destroyed were supported by observati as by other orows.

2 aircraft crashed owing to ongine failure, and a burne tyre caused the a surne tyre caus undercarriage of anoth r to collepse.

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HANBURG.

ives.co 22. 4 Mosquitoes attacked Hamburg from 28,000 ft. A probable explosion followed by a fire was the only result observed. All the Mosquitoes returned un-damaged, although 3 controlled night fighter pursuits were overheard.

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MINBLAYING.

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ć	T.I. + H.E.	Ŷ		- : - :	29 bac			
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MOST SECRET

NIGHT RAID REPORT NO. 365. COPY NO.

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

Minelaying.

SUHMARY.

1. 16 Wellingtons of 1 and 4 Groups were despatched to lay mines off St. Nazaire and Lorient. 15 completed the task, laying 30 mines. The sixteenth was missing without trace.

Meteorological Forecast.

2. Anti-cyclone over Scotland, persisting without such change.

Home Bases: 1 and 4 Group stations will be fit for _:040ff, but very few bases anywhere in England after 0300 hours, owing to low class it 300 ft. and drizzle. Some diversions will be available in 91 Group until 0400-0500 hours,

France:- much low cloud in N.E.; fine with moder to vistaility in W. and centre.

Germany:- small amounts of strato-cumulus cloud, ith a for larger patches in N.W.; variable amounts of strato-cumulus in N.E. h.ch cloud and occasional rain in S.

Sorties

3.	(a)	No.	of	airoraf	't despatched 16
	(Ъ)				reaching primary area
	(0)				reaching primary area 15 (
	(a)		Ħ	mines 1	nid

Weather Experienced.

4. Home bases: - Layer cloud over coastal strip of N.E. England and East Anglia at dusk, spread to 210 W. by dawn, giving slight but widespread drizzle. Base of cloud 1-2,000 ft., but extensive areas below 1,000 ft. Visibility good. S.W. England fine all night. No moon.

N. W. France: - No cloud; visibility moderate to good.

Casualties

5. One Wellington was missing, the cause being unknown. All the others returned undamaged.

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