

HEADQUARTERS
401ST BOMBARDMENT GROUP (H)
AAF STATION 128

F-A-1

A.P.O. 557,
23 April 1944

SUBJECT: B-4 Combat Mission Report on Mission 22 April 1944.

TO : Commanding Officer, 1st Bombardment Division, APO 557
ATTN: Statistical Control Officer.

1. The following Engineering failures were reported
with the number of cases in parenthesis:

None reported

2. The following Armament failures were reported
with the number of cases in parenthesis:

None reported

3. The following failures other than Engineering and
Armament were reported with the number of cases in parenthesis:

None reported

CHARLES W. HUNT,
Capt., Air Corps,
Group Engineering Officer.

HEADQUARTERS
401ST BOMBARDMENT GROUP (H)
AAF STATION 128

P-C-1

A.P.O. 557
23 April 1944

SUBJECT: Armament Narrative, Mission No. 53, 22 April 1944.

TO : Commanding Officer, 401st Bombardment Group (H),
APO 557, U.S. Army.

1. Negative Armament and Bomb Rack malfunction report
is submitted for the mission of 22 April 1944.

SAM P. BROOMHALL, JR.,
1st Lt., Air Corps,
Group Armament Officer.

HEADQUARTERS
401ST BOMBARDMENT GROUP (H)
Office of the Engineering Officer
Station 128

A.P.O. 557
22 April, 1944

SUBJECT: Mission Summary Report

TO : Group Operations, Station 128, APO 557

1. Abortives.

None.

2. Battle Damage.

42-97487. Flak hole through bottom of left elevator, near
station 188; Flak hole through right side of fuselage, near
station 11a; Flak hole in left tail gunners window.

<u>TOTAL NO.</u> <u>OF A/C</u>	<u>MAJOR</u> <u>DAMAGE</u>	<u>MINOR</u> <u>DAMAGE</u>	<u>BY</u> <u>FLAK</u>
1	0	1	1

CHARLES W. HUNT
Capt., Air Corps,
Group Engineering Officer

Emg

LOW BOX 94TH CBW

Combat Flight Leader: CAPT. MC CREE 22 APRIL 1944
(Date)

Deputy Flight Leader: LT. DAILEY

Group Call Sign: _____ Fighter Call Sign: _____

Ground Control: _____

13:00 Briefing

612TH SQDN
GOODMAN (MC CREE)

61st SC JABWOCK
61st IN MACRO
61st IN GOLFOLE
615th IY BUZZARD

IN C 1081

<u>KELLY</u>	<u>DAILEY</u>
SC D 6992	SC B 1662

SMITH, S.E.
SC J 0050

<u>BINGHAM</u>	<u>WEST</u>
SC F 9943	SC O 7487

614 SQDN 615 SQDN

<u>OWENS</u>	<u>LEWIS</u>
IN O 1116	IY O 1091

<u>BARTLEY</u>	<u>WALSH</u>	<u>CAMPBELL</u>	<u>LOZINSKI</u>
IN L 0001	IN X 1863	IY M 1521	IY E 7092

<u>WILSON, C.L.</u>	<u>WYSOCKI</u>
IN M 9846	IY H 7843

<u>LEW</u>	<u>SHARP</u>	<u>KNIGHT</u>	<u>FERYDN</u>
IN K 1072	IN E 7009	IY G 1983	IY L 1619

SPARES

HESS
IN J 1591

<u>HERSHEY</u>	<u>SCHARFF</u>
SC G 1034	IN A 9840

SPARE LEAD IY X 1485
GROUND SPARES IY A 1077
" " IY C 9904

612TH BOMBARDMENT SQUADRON (H)
401ST BOMBARDMENT GROUP (H)
OFFICE OF THE ENGINEERING OFFICER
STATION 128
APO 557

22 April 1944

SUBJECT: Battle Damage Report

TO: Engineering Officer, 401st Bombardment Group (H),
Station 128, APO 557, U. S. Army

1. The following is the battle damage report for the
airplanes operated by this Squadron on the combat mission
completed this date.

AIRPLANE NO.	BATTLE DAMAGE
42-97487	1. Flak hole in left elevator near station 188, in bottom out top. 2. Flak hole in right side of fuselage near station 11a, out left side. 3. Flak hole in left tail gunners window.

Herbert O. Kimmel

HERBERT O. KIMMEL
1st Lt, Air Corps
Engineering Officer

Classification changed to
SECRET
RESTRICTED by auth of

AAF Sta 128 by

JACKSON M. PHIPPS,
Captain, Air Corps,
Adjutant.

"MISSION SUMMARY"

MISSION NO. 54
22ND. APRIL, 1944

94TH. COMBAT BOMB WING
401ST. BOMBARDMENT GROUP (H)

R E P O R T O F O P E R A T I O N A L
 D A Y

MISSION No. **54**

Date: **22 APR. 44**

TO: **HAMM , GER.**

APR 27 1944

OFFICE OF THE INTELLIGENCE OFFICER
STATION 128 - APO 857
U. S. ARMY

25 April 1944.

SUBJECT: Comments of Crews Participating in Mission to NANCY/ESEY, 25 Apr 44.

TO : COMMANDING OFFICER, 401st Bombardment Group (H), APO 857, U.S. Army.
(Thru Lt. Col. B.X. Voorhees and Lt. Col. A.C. Brooks)

1. Lt. Bryan M. Shotts (Pilot) A/C 1081, commented on excellent leadership of high squadron lead and low squadron lead. Lt. Shotts and Lt. Eugene H. Duder (Navigator) A/C 2393, both complimented Wing navigator for excellent job of navigation.

2. Major Ralph J. White (Co-pilot) A/C 9904, was of the opinion that half of the 360° turns were uncalled for. Lt. Lloyd W. Sellers (Navigator) A/C 9904 - "In letting down on the Deenethorpe buncher why not use it. Took 30 minutes hunting for a hole."

3. Lt. Sandy Lew (Pilot) A/C 1037, says "worst formation I ever saw, don't know whether group leader or squadron leader is to blame". Lt. William J. Kelly (Pilot) A/C 6992 also said group and wing formation "very poor".

4. The following comments were made concerning the Combat Mess:

- a. Crew of Lt. William J. Kelly (Pilot) A/C 6992, said breakfast was too greasy and caused stomach trouble.
- b. Lt. John J. Kelly (Bombardier) A/C 1037, "poor mess insult to crews to eat such food".
- c. Lt. Jay A. Wade (navigator) A/C 7843, and crew complained they could not eat breakfast. Eggs not seasoned and greasy black potatoes.
- d. Crew of Lt. Charles F. Hess (Pilot) A/C 1591, suffered gas pains from breakfast which included cold and greasy potatoes. Navigator, Lt. Charles W. Bryant had never suffered like this before.
- e. Lt. David H. Stephen (Navigator) A/C 7043, complained of poor food on return from late mission.
- f. S/Sgt. Michael Lefkin (TG) A/C 7039, and entire crew complained that breakfast was not fit to eat.

5. T/Sgt Charles F. Casner (ROG) A/C 1077, says that he always misses his transportation because of having to take "flimsies" to communications. Suggests and requests that they be collected by communications at Interrogation.

6. Lt. Edwin A. Post (Pilot) A/C 1077, advises friendly fighters not to come through formation out of the sun - to much risk of not being recognized.

8018

7. Lt. John J. Kelly (Bombardier) A/C 1037, heard whole crew talking on Sea Channel, VHF all about target. Unable to identify.

/s/ Paul R. Myers 2nd Lt.
W. B. FRY,
Major, Air Corps,
Group S-2 Officer.

Target No.
6 (d) (vi) 5

RAILWAY MARSHALLING
YARD

HAMM
(GERMANY)

Illustration No.
6 (d) (vi) 5/4

0 500 1000 1500 2000 YARDS
0 1 MILE

(1: 16,000) approx.

Photographed 20 June 1941
Issued December 1942



PRIMARY
MPI.

SECONDARY
MPI

Illustration No.
6 (d) (vi) 5/4

BRIEFING NOTES (22 Apr 1944)

TARGET:

Your target is located here(use pointer). Today you are attacking a very important Marshalling Yard in the German Railway Traffic system in that it handles the great majority of the rail traffic between the Ruhr and North and Central Germany. The yard has a capacity of at least 10,000 rail cars a day and is so busy that it has been called "the nerve center of German rail traffic".

The target has an overall length of more than 3 miles with varying width's up to 630 yards. The width of the target at your MPI is approx. 400 yards. You can see off subsequent photographs that your MPI is a "choke-Point" or Junction" which if properly hit will completely put the whole marshalling yard out of commission from ~~xxxxxx~~ the North end. Also there are numerous Warehouses bordering the rail lines which will lie in the path of your Bomb pattern, and a good bomb pattern should cause great destruction in them also.

SECONDARY TARGET: Higher Hdqs. said the same target is the secondary so it is evident that it is an important one. Your Secondary MPI is the center of the built up area to north of the Marshalling Yard.

LAST RESORT: Any military objective in Germany or ANY A/D NOT ADJACENT TO A BUILT UP AREA, IN THE OCCUPIED COUNTRIES THAT CAN BE ATTACKED WITHOUT DISRUPTING FIGHTER SUPPORT.

FRIENDLY ACTIVITIES:

1. The rest of the CBW of this BD will be attacking other MPI's at the same target. Our CBW is 4th on the target and you can expect lot of smoke.
2. 2nd BD will be attacking the same target.
3. 3rd BD will be attacking the same target.

EPIDIASCOPE:

1. 1-~~250~~,0000---indicate IP and MPI and direction in & out. Indicate location of MPI approx.

2. Target Map: Indicate the location in relation to city and show built up areas, the length of the target and our MPI/

3. PHOTOGRAPH: Bring out same thing as it will appear visually.

4. FLAK MAP: Flak route should be generally good but today is another one that necessitates an accurate route being flown if you are to stay out of the bad areas of ~~Mappe~~ the Ruhr or Munster here. Check other towns they are to be aware of. *Invalle on left part Zinder Zie - Hevater on right - stay No. 8 Koblenz - So of Liege, Brussels and hit point between*

FIGHTER ESCORT

1 GP 47 -
 1 GP 38
 1 GP 47
 1 GP 47

1 - 51 on target sweep 1 hr. before bomb -
 1 - 51 Karl & Frank withdrawn

LAST MINUTE INTELLIGENCE:

NO CONVOYS ARE EXPECTED.

FW POOP AND LAST MINUTE INSTRUCTIONS:

1 GP 47 sweep withdrawal (8 yrs area support from mid 3rd BD)

PW POOP AND LAST MINUTE INSTRUCTIONS:

FROM GERMANY: Big River main Obstacle:
Avoid Ruhr Districts--built up area 30 miles long.
NO HELP FROM Germans but foreign workers will help.
Country side not thickly populated, roads unfrequented at night.
Beware of Auxilliary police, forest patrols, dog patrols at
frontier.
Walk by night and hide at day and don't move. Avoid villages
before 2300.
Holland--You know the instructions for this country.
Belgium--and you know the instructions for Belgium.

DON'T FORGET:

EMPTY YOUR POCKETS
CARRY IDENTITY PHOTOS AND PICK UP ESCAPE KITS AND PURSES
ADJUST YOUR PARACHUTE HARNESS PROPERLY.
DON'T MENTION THE TARGET NOW OR AFTER LEAVING HERE.

CONFIDENTIAL-PRIORITY

FROM: DPE

TO : C. G. 1st Bombardment Division; 94th CBW

(Field Order No. 331)

NARRATIVE TELETYPE

1. No leaflets were carried. None on hand.
2. Bombing results reported fair to good by crew. Smoke covered entire area and a sheet of flame approximately a thousand feet in height was observed slightly north east of the M.P.I. Fire was still burning when last observed with heavy black smoke seeming to indicate oil. No strike photos are available at this time.
3. Meager to moderate flak was encountered at Edam, target area and Ostend. Accuracy was poor.
4. No enemy ~~XXX~~ air opposition was encountered.
5. Weather was clear with a ground haze at target area. Assembly and formation was good and target was bombed on schedule. Night landings were made at home base by squadrons in good order.
6. Important Observations:
 - a. 2103 hours, area near Ostend appeared partially flooded.
7. Other Information:
 - a. Fighter support was excellent.
 - b. A/C in distress:
 - (1) 1827 hours, (5227-0325E) 3 chutes, observed falling over water.
 - (2) 1917 hours, Target area, unidentified B-17 hit by flak burned and exploded, 3 chutes seen.
 - (3) When combat wing broke up we returned as a group. Some hazard was created by single planes and elements crossing ahead of us at same altitude.

612TH BOMBARDMENT SQUADRON (H)
401ST BOMBARDMENT GROUP (H)
Office of the Operations Officer
APO # 557

5-3

AAF Sta # 128
22 April 1944

SUBJECT : Loading List

TO : Operations Officer, 401st Bombardment Group (H),
APO # 557 AAF Sta # 128.

A/C 42-31081

P	Goodman, James F.	Capt.	612th
CP	McCree, Donald G.	Capt.	"
N	Haberer, Walter E.	Capt.	"
B	Anderson, Donald M.	1st Lt.	"
RO	Graham, James J.	T Sgt	"
TTG	DeWees, Foster, E.	T Sgt	"
BTG	Convertino, Rico S.	Sgt	"
TG	Johnston, Clayton	2nd Lt.	"
LWG	Henderson, Pete D.	S Sgt	"
RWG	Markle, Burton A.	S Sgt	"

A/C 42-31662

P	Dailey, Scribner C.	1st Lt.	612th
CP	Stokes, Alexander C.	1st Lt.	"
N	Shapiro, Aaron (NMI)	1st Lt.	"
B	Winn, Roy R.	1st Lt.	"
RO	Hildreth, Arthur W.	S Sgt	"
TTG	Flynn, William B.	T Sgt	"
BTG	Sable, Jerome (NMI)	S Sgt	"
TG	Sanders, Charles W.	S Sgt	"
LWG	Plate, Robert D.	S Sgt	"
RWG	Hagen, Charles T.	T Sgt	"

A/C 42-06992

P	Kelly, William J.	1st Lt.	612th
CP	Coyne, Daniel J.	2nd Lt.	"
N	VanDyke, George R.	2nd Lt.	"
B	Grate, Louis B.	1st Lt.	613th
RO	VanDuren, Paul R.	S Sgt	612th
TTG	Johanson, Morris W.	T Sgt	"
BTG	Stengel, Percy J.	T Sgt	"
TG	Garity, John B.	S Sgt	"
LWG	Peacock, George P.	S Sgt	"
RWG	Connor, Jay L. Jr.	T Sgt	"

A/C 42-0050

P	Smith, Stuart E.	1st Lt.	612th
CP	Chmura, Stanislaw R.	1st Lt.	"
N	Reese, Victor S.	2nd Lt.	"
B	Lingenfelter, Leo I.	2nd Lt.	"
RO	McCawley, Fred H.	T Sgt	"
TTG	Carr, Maurice A.	T Sgt	"
BTG	Davies, Leonardo F.	S Sgt	"
TG	Parker, Harry C.	S Sgt	"
LWG	Chapman, William E.	Sgt	"
RWG	Surprise, Walter L. Jr.	S Sgt	"

A/C 42-97487

P	West, George E.	1st Lt.	612th
CP	McKinnon, Douglas H.	2nd Lt.	"
N	Nutter, Lloyd A.	2nd Lt.	"
B	Montgomery, Thomas B.	2nd Lt.	"
RO	Andrus, Robert L.	T Sgt	"
TTG	Russell, Francis L.	T Sgt	"
BTG	Womble, John L.	S Sgt	"
TG	Lerkin, Michael (NMI)	S Sgt	"
LWG	Russell, Hugh D.	Sgt	"
RWG	Marini, Alfred J.	S Sgt	"

A/C 42-39943

P	Bingham, George F.	1st Lt.	612th
CP	Ramsey, Robert J.	1st Lt.	"
N	Tomlinson, Harvey G.	2nd Lt.	"
B	Lott, Eugene F.	2nd Lt.	"
RO	Giorgiani, Alex (NMI)	T Sgt	"
TTG	Dunn, Johnny K.	T Sgt	"
BTG	Johns, Carl W.	S Sgt	"
TG	Yeatts, Lawson K.	S Sgt	"
LWG	Carey, Joe R.	S Sgt	"
RWG	Callahan, Michael J.	Pvt	"

A/C 42-31034

P	Hershey, Harry J.	1st Lt.	612th
CP	Woods, Robert R.	2nd Lt.	"
N	Bader, Eugene H.	2nd Lt.	"
B	Boxer, Martin W.	2nd Lt.	"
RO	Cherry, Noel S.	T Sgt	"
TTG	Pugh, Alfred J.	T Sgt	"
BTG	Chiccino, Joseph C.	S Sgt	"
TG	Joseph, Meload C.	S Sgt	"
LWG	Gulan, Frank F.	S Sgt	"
RWG	Civello, Hubert C.	S Sgt	"

returned spare

613th BOMBARDMENT SQUADRON (H)
OFFICE OF THE OPERATIONS OFFICER
AAF STATION 128, APO 557

22 April 1944

SUBJECT: LOADING LIST

TO: OPERATIONS OFFICER, 401st Bombardment Squadron (H), AAF Station 128, APO 557

1. The following is the list of combat crews participating in today's mission.

DUTY	RANK	LAST NAME	FIRST NAME	MI
<u>PLANE NO. 42-31072</u>				
P	1st Lt.	LEW	SANDY	(NMI)
CP	2d Lt.	PRIEST	GORDON	S.
N	2d Lt.	SCHLIEPER	ROGER	P.
B	2d Lt.	KELLY	JOHN	J.
RO	S SGT.	JOHNSON	ALVIN	A.
TT	T SGT.	THAYER	BLISS	P.
BT	S SGT.	FRANKLIN	PAT	H.
TG	S SGT.	HIBBS	ARLIE	E.
LWG	S SGT.	ROBINSON	MARSHALL	E.
RWG	S SGT.	MC CARTHY	WILLIAM	A.

<u>PLANE NO. 42-107009</u>				
P	1st Lt.	SHARP	JAMES	C.
CP	2d Lt.	HUSS	VINCENT	J.
N	2d Lt.	STEPHEN	DAVID	H.
B	2d Lt.	BUSSE	MYLES	R.
RO	SGT.	FINNIE	CHARLES	S.
TT	M SGT.	OLDER	HAROLD	K.
BT	SGT.	SEDERIS	JOHN	J.
TG	S SGT.	TOMKINSON	ALFRED	A.
LWG	S SGT.	TOBINE	RODNEY	T.
RWG	SGT.	DRAIN	JAMES	A.

<u>PLANE NO. 42-31840</u>				
P	2d Lt.	SCHARFF	PAUL	F.
CP	2d Lt.	JOHNSON	WENDALL	T.
N	2d Lt.	SCHWARTZ	BERNARD	(NMI)
B	2d Lt.	KEENE HOOVER	ROBERT	R.
RO	SGT.	STRONG	ROBERT	C.
TT	T SGT.	PACK	JESSE	O.
BT	S SGT.	BEDALL	CHARLES	H.
TG	S SGT.	SMALLIN	JAMES	M.
LWG	S SGT.	TOMLINSON	ROSCOE	P.
RWG	S SGT.	SCHAIR	ARTHUR	(NMI)

<u>PLANE NO. 42-31591</u>				
P	1st Lt.	HESS	CHARLES	F.
CP	2d Lt.	IRWIN	JAMES	R.
N	2d Lt.	BRYANT	CHARLES	W.
B	2d Lt.	ROWE	ROBERT	W.
RO	S SGT.	FAHNESTOCK	JAMES	E.
TT	T SGT.	HARP	MORRIS	O.
BT	S SGT.	GREGORY	BAYLIA	C.
TG	S SGT.	STREET	VICTOR	P.
LWG	S SGT.	KLOIBER	STEPHEN	F.
RWG	S SGT.	CARPENTER	ARNOLD	H.

FLYING WITH 612th :

1st Lt.	GRATE	LOUIS	B.
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SIX HUNDRED AND FOURTEENTH BOMBARDMENT SQUADRON (H)
 FOUR HUNDRED AND FIRST BOMBARDMENT GROUP (H)
 Office of the Operations Officer

AAP Station # 128
 22 April 1944.

SUBJECT: Loading List.

TO : Operations Officer, 401st Bomb Gp (H), AAP Station # 128.

1. Following is the list of Combat personnel participating in today's mission.

*Plane 42-51116

P	1st Lt.	OWENS, ERLE G. JR.	614th
CP	1st Lt.	HERGERSON, CLIFFORD O.	"
M	NOLTE, EDWARD P.	1st Lt.	"
B	1st Lt.	FITZGERALD, ROBERT G.	"
RO	T/Sgt.	Stimmel, Bert W.	"
TT	T/Sgt.	Spacek, Anthony V.	"
BT	Pvt.	Murphy, James J.	"
TG	Sgt.	Jones, Scott D.	"
LWG	S/Sgt.	Parratt, John J.	"
RWG	Sgt.	Elliott, Ralph D.	"

*Plane 42-40001

P	2nd Lt.	BARTLEY, LEO S.	614th
CP	2nd Lt.	HAMMOND, HOWARD W.	"
M	2nd Lt.	RYAN, WILLIAM F.	"
B	2nd Lt.	CARTER, JAMES P.	"
RO	S/Sgt.	Frederick, Eugene D.	"
TT	Sgt.	Rader, Richard A.	"
BT	S/Sgt.	Hurd, Robert O.	"
TG	S/Sgt.	Berg, Edgar M.	"
LWG	S/Sgt.	Dedraff, Andrew D.	"
RWG	Opl.	Sherman, Gilbert	"

Loading List (Con't)

***Plane 42-31863**

P	1st Lt.	WALSH, ROBERT P.	614th
OP	P/O	FAULHABER, DONALD A.	"
N	2nd Lt.	MATRICIAN, MICHAEL	"
B	2nd Lt.	PORTER, GUY R.	"
RO	Cpl.	Zappala, Vincent	"
TT	T/Sgt.	Stallcup, Moss H.	"
BT	S/Sgt.	Collie, Perry O.	"
TG	S/Sgt.	Brgeoch, Ludvick J.	"
LNG	S/Sgt.	Cartmill, Charles L.	"
RWG	S/Sgt.	Leyland, John M.	"

***Plane 42-32845**

P	1st Lt.	WILSON, CARLETON L.	614th
OP	2nd Lt.	KELLEY, CURTIS C.	"
N	2nd Lt.	CONNERY, JOHN K.	"
B	2nd Lt.	POGARTY, FRANCIS M.	"
RO	T/Sgt.	Harlow, Clevy D.	"
TT	T/Sgt.	Quinn, Robert E.	"
BT	S/Sgt.	Passeno, William W.	"
TG	S/Sgt.	Pettit, Gerald H.	"
LNG	S/Sgt.	McMahon, James F.	"
RWG	S/Sgt.	Smith, George R.	"

STATION WEATHER OFFICE
AAF STATION 128
APO 557 U.S. ARMY

22 April 1944

WEATHER INTERROGATION SUMMARY FOR MISSION OF 22 APRIL 1944

BASE AT TAKE OFF : (1615) Nil low and middle cloud, 2/10 cirrus. Visibility 8 miles.

ROUTE OUT: Nil low and middle cloud, 1-2/10 cirrus at 27,000'. Visibility unrestricted.

TARGET: (1917) Nil low and middle cloud, 1-2/10 cirrus at 27,000'. Visibility unrestricted at flight altitude, downward visibility restricted by ground haze.

RETURN ROUTE: Similar to route out except 0-3/10 middle at 14,000' and 3-5/10 cirrus above 25,000' over England. Visibility unrestricted.

BASE ON RETURN: (2215) Nil low cloud, 2-3/10 altostratus at 14,000' and 5/10 cirrus above 25,000'. Visibility 6 miles.

REMARKS: Winds: direction forecast good, velocity was 5 knots stronger than forecast going in to target and 10 knots lighter returning. Temperature at flight altitude was 7 degrees warmer than forecast. Persistent contrails were reported at 17,000' over Channel.

Walter A. Hurthly
WALTER A. HURTHLY,
1st Lt., Air Corps,
Station Weather Officer.

OPERATIONAL ROUTE FORECAST

DATE 27 April 1944
PERIOD 1500-2330

AG P BR HQ SOS 2-44/65M/22929

	A Base to Target	B Target to Base	C	D
1 WEATHER	Partly cloudy	Partly cloudy becoming clear		
2 CLOUDS	Nil to 3/10 cumulus, base 3000 ft., tops 4-5000 ft. Nil medium. Nil high, becoming nil to 3/10, with base above 25000 ft. at tar- get.	Nil to 3/10 cumulus, base 3000 ft., tops 4-5000 ft. Reverse of A-2, except low cloud decreasing to nil on return.		NOTE: Light, non-persistent contrails at cirrus level.
3 ICING	7000 ft. - Nil	7000 ft. - Nil		
4 VISIBILITY	5-10 miles, becoming unrestricted aloft.	Unrestricted aloft, becoming 3-5 miles at surface.		
HEIGHT	DIRECTION	VELOCITY	DIRECTION	VELOCITY
SURFACE	320 deg.	15 knots +12		
5000 FT	300 "	35 " +1		
10000 FT	300 "	40 " -9		
15000 FT	300 "	45 " -13		
20000 FT	290 "	60 " -28		
25000 FT	290 "	70 " -38		
30000 FT	280 "	80 " -50		

BASE ALTIMETER SETTING 30.62 in. TARGET SURFACE TEMP. plus 12 TARGET MEAN TEMP. minus 09
TEMP. AT 21000 FT. minus 30 TARGET SURFACE (PRESSURE-ALT.) minus 400 ft.
Plus height of target