[redacted]

PROJECT 10073 RECORD CARD

1. DATE	2. LOCATION	12. CONCLUSIONS
25 March, 1960	Dalton, Massachusetts	☐ Was Balloon ☐ Probably Balloon ☐ Possibly Balloon
3. DATE-TIME GROUP Local 1030 P.M. GMT	**4. TYPE OF OBSERVATION** XX ☐ Ground-Visual ☐ Ground-Radar ☐ Air-Visual ☐ Air-Intercept Radar	☐ Was Aircraft ☐ Probably Aircraft ☐ Possibly Aircraft
5. PHOTOS ☐ Yes physical specimen XX ☐ No	**6. SOURCE** Civilian	☐ Was Astronomical ☐ Probably Astronomical ☐ Possibly Astronomical
7. LENGTH OF OBSERVATION / **8. NUMBER OF OBJECTS** / **9. COURSE**		XX ☐ Other ice ☐ Insufficient Data for Evaluation ☐ Unknown
N/A / one / down		

10. BRIEF SUMMARY OF SIGHTING

A 30 lb. chunk of ice fell in Dalton, Mass. The area wassurveyed by an ATIC investigator and there was no overhead object from which the ice could have fallen. The spatter pattern was a fairly even distribution over an area 28' x 28'. The ice was analysed and described as porus, or like rime ice.

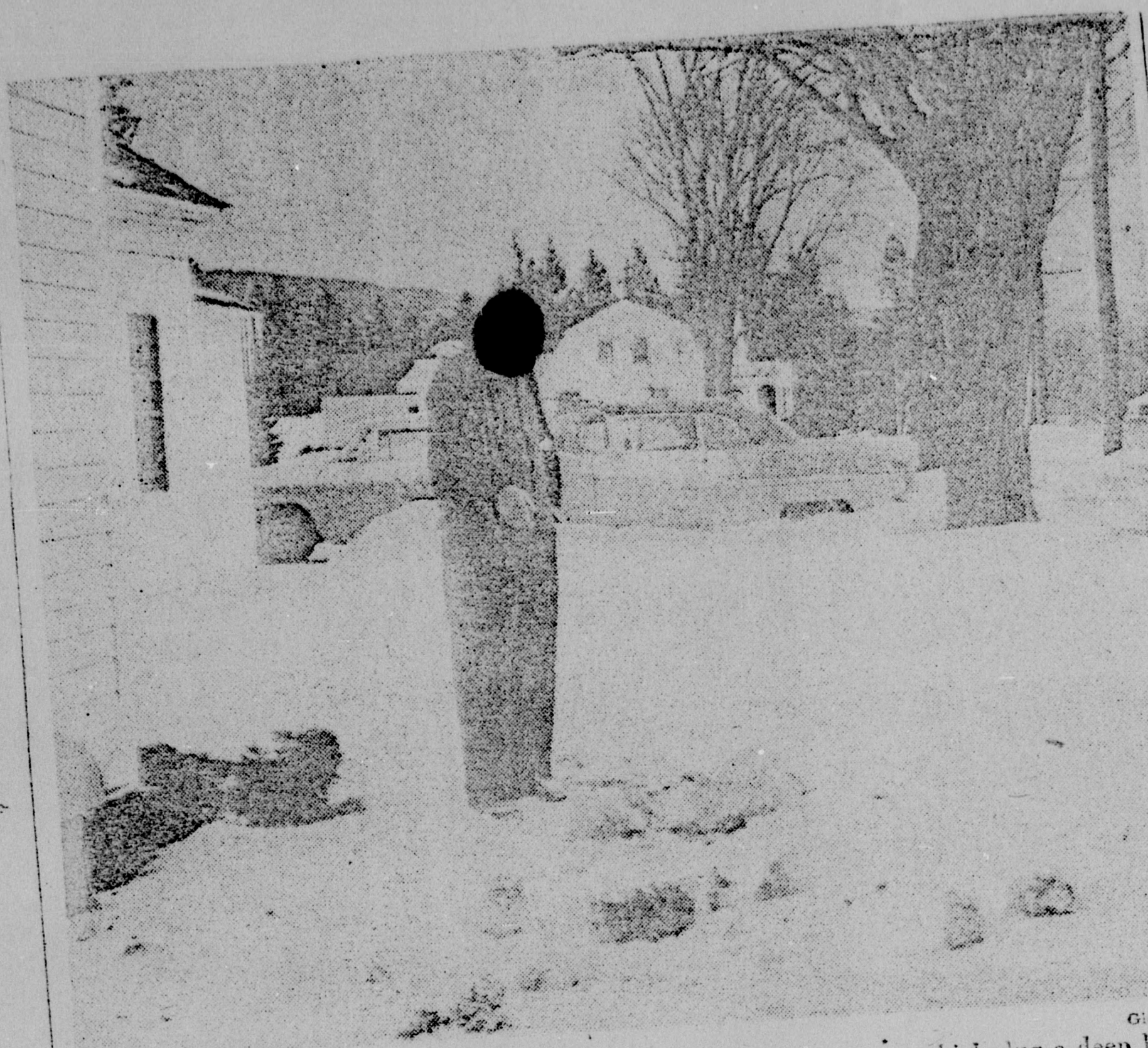
11. COMMENTS

ATIC has arrived at no conclusion as to the origin of the ice. Future cases may indicate a pattern which will lead to a conclusion.

ATIC FORM 329 (REV 26 SEP 52)

Ice Fall - Dalton, Massachusetts

On 25 March 1960, a 30 pound chunk of ice fell in Dalton, Massachusetts. The area was surveyed by an ATIC investigator, and there were no overhead objects from which the ice could have fallen. The splatter pattern was a fairly even distribution over an area 28' by 28'. The ice was described as rather porous, or like rime ice. A sample was taken from the center of one of the larger pieces in an attempt to preclude contamination from the local area. The sample was transported to ATIC in an air tight container. An analysis of the sample was accomplished by the physics laboratory of the Wright Air Development Division, and a copy of the report is attachment #1 to this document.



Glendon

OUT OF THE SKY Friday night came a 30-pound chunk of ice which dug a deep hole in the yard of Mr. and Mrs. Larry Roche of Dalton. Mr. Roche points to some of the shattered pieces he thinks fell from an airplane. Particles of sand were found in the broken pieces. A Cambridge scientist has asked Roches to save melted residue so he can analyze it.



Glendon

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7 April 1960

MEMO TO: Major Friend

SUBJECT: Report of Dalton, Mass. Ice Fall, 25 March 1960

1. At 10:30 P.M., EST, Friday, 25 March 1960, Mr and Mrs [redacted], Dalton, Mass. reported the fall of many pounds of ice from the sky. This was reported on the radio, and I called Mr [redacted] and asked him to put a sample of the ice in the freezer. Later in the week Mr [redacted], a friend of mine, volunteered to make the trip from Boston to Dalton, Mass. (300 miles) round trip, to pick up the ice. He cut a chunk out of the center of the ice sample and the melted sample is herewith submitted.

2. The circumstances of the fall were these: Shortly before 10:30 the Roche's 15 year old son returned from an errand making copious tracks in the snow; within a few minutes there was a very loud noise outside that "shook the house". Everyone dashed outside thinking that there had been a bad automobile accident someplace. All that was found was the fallen ice which landed very close to the tracks in the snow made by the [redacted] boy just a few minutes earlier. This made a hole in the ground about one inch deep. The landing spot of the ice is pictured in inclosure, and also close-ups of the ice. It was determined that the ice could not have fallen from the roof or the trees. The landing pattern of the ice is shown in inclosed diagram.

3. The ice itself resembled tapioca snow and was considerably less dense than ordinary ice for it was quite coarse and a chunk the size of a man's head probably weighed not much more than a pound. By no consideration could the frozen snow-ice be thought the same as the surrounding snow and ice.

4. Exact weather conditions have not yet been determined, but witnesses stated that they could see stars. They also stated that their house does not lie under any scheduled airlines.

5. A sample of the water has been given to Dr [redacted] at Smithsonian for tritium analysis. It is suggested the present sample be subjected to analysis at Wright Field.

Dr J. Allen Hynek

NOTE: Water sample should be analyzed for type of water (coastal, rain, etc), mineral content, and organic content, and such other analysis as is deemed appropriate - also spectrographic analysis of residue in water.

9-6 8 APR 1960

SUBORDER

(See WADCR 83-16)

1. TO (Supporting Orgn) WWRCPA	2. DATE 8 April 60	3. FOR SERVICE IN SUPPORT OF: SYSTEM NO.	4. FILE OR LEDGER NO. INITIATING ORGN
5. DATE COMPLETION REQ ASAP	6. PRIORITY	PROJECT NO. 577101	SUPPORTING ORGN 5892
7. SECURITY CLASSIFICATION OF WORK REQUESTED UNCL	8. PRECEDENCE RATING	TASK NO.	
9. A/C TYPE, MODEL AND SERIAL NO.		TECH GROUPING	OTHER
WADC FORM 33 ☐ HAS ☒ HAS NOT BEEN INITIATED.		TITLE Analysis of ice water	

10. DESCRIPTION OF WORK

Water sample should be analyzed for type of water (coastal, rain, etc), mineral content, organic content, and such other analysis as is deemed appropriate - The residue in the water should be given a spectrographic analysis

CONTINUED ON REVERSE SIDE ☐

FOR USE OF RESPONSIBLE ORGANIZATION

11. INITIATOR James. Bolen ORGN CODE AFCIN EXT 69716 4E2	12. SECTION CHIEF ORGN CODE EXT	13. CHIEF (Responsible Orgn or Rep)

FOR USE OF SUPPORTING ORGANIZATION

14. ESTIMATED COMPLETION DATE 26 April 1960 MAN-HOURS 40	15. PROJECT ENGINEER OR PLANNER Wade H Jones ORGN CODE WWRCPA EXT 71219	16. CHIEF (Supporting Orgn or Rep) Solomon J. Brokshoulder Capt USAF

CLOSING ACTION

17. REASON: ☒ COMPLETED ☐ CANCELLED	20. CHIEF (Supporting Orgn or Rep)	21. CHIEF (Responsible Orgn or Rep)

ROUTING AND COORDINATION SHEET

FILE CLASS: _____

OFFICIAL FILE COPY

_____

___OFFICE OF RECORD

ROUTING/COORDINATION

WRIGHT AIR DEVELOPMENT CENTER
WRIGHT-PATTERSON AIR FORCE BASE, OHIO

This report is not to be used in whole or in part for advertising or sales promotion purposes.

~~DIRECTORATE/LABORATORY~~
MATERIALS CENTRAL

PHYSICS LABORATORY

EVALUATION REPORT

ANALYSIS OF ICE WATER

REPORT NR: WWRC P60-7

DATE: 4 May 1960

PROJECT NR: 577101

TYPE EVALUATION:

MANUFACTURER:

SPEC NR:

SUBMITTED BY: AFCIN-4K2
James O. Bolian

ITEM SERIAL NR:

I. PURPOSE

To analyze a sample of thawed ice water and determine its composition.

II. FACTUAL DATA

1. The sample was received and assigned Physics Laboratory Suborder No. P-6.

2. The sample was analyzed by emission spectroscopy and x-ray diffraction analysis.

3. Emission spectrographic analysis indicated the water to have the following composition:

Filtered thawed ice water -

Minor - Magnesium

Traces - Silicon, manganese, aluminum, iron, nickel, copper, sodium, zinc, chromium and calcium

Large and small particles (residue) -

Principal - Calcium

Majors - Silicon, magnesium, aluminum and iron

Minors - Manganese, copper, sodium, zinc, titanium and chromium

Traces - Tin, lead and nickel

4. X-ray diffraction analysis indicated that the large and small particles are the same compound. The compound was identified as silicon dioxide (SiO_2), a natural mineral.

III. CONCLUSIONS

There was not enough of the thawed ice water to conduct any other analysis.

IV. RECOMMENDATIONS

None, data merely submitted.

PREPARED BY:

Wade H. Jones

WADE H. JONES, WWRCPA-2

PUBLICATION REVIEW

This report has been reviewed and is approved.

Solomon F. Brokeshoulder

SOLOMON F. BROKESHOULDER, Capt, USAF
Chief, Organic Analysis Section
Physics Laboratory
Materials Central

DISTRIBUTION:

WWRCP (1 cy)
WWRCPA (3 cys)

OFFICIAL FILE COPY

AFCIN-4E2 /Maj Friend/amc/69216/typed 17 June 60

21 JUN 1960

Ice Fall, Dalton, Mass.

[redacted]
Cambridge, Mass.

Dear Dr [redacted]

1. On 25 March 1960, an "ice fall" case, which occurred in Dalton, Massachusetts, was reported to ATIC. A summary of this incident is attached to this correspondence.

2. ATIC has come to no conclusion concerning the origin of the ice. However, future cases may indicate a pattern which will lead to a conclusion.

3. This report is forwarded upon the suggestion of Dr J. Allen Hynek, who indicated that it may be of value to you in your present work.

Sincerely,

NICHOLAS POST
Acting Deputy
Science and Components

2 Atch:
1. Cy [redacted] Rpt #WHRC P60-7
2. Ice Fall Summary

COORDINATION:

Robert Friend Major AFCIN 4E2 20 June 60
H & E mailed 6/20/60

(FINAL FILE COPY

AFCIN-4B2/Maj Friend/amc/69216/typed 17 June 1960

21 JUN 1960

Ice Fall, Dalton, Mass.

NASA
1520 "H" Street, NW
Washington 25, D. C.

1. On 25 March 1960, an "ice fall" case which occurred in Dalton, Massachusetts was reported to ATIC. A summary of this incident is attached to this correspondence.

2. ATIC has come to no conclusion concerning the origin of the ice; however, future cases may indicate a pattern which will lead to a conclusion.

3. This report is forwarded to your agency due to your possible interest in these cases.

FOR THE COMMANDER:

[redacted]
Acting Deputy
Science and Components

2 Atch:
1. Cy [redacted] Rpt #WNRC P60-7
2. Ice Fall Summary

COORDINATION:

Robert Friend Maj in AFCIN-4B2 20 Jun
H E Martin c/20/

OFFICIAL FILE COPY

AFCIN-4,42/Maj Friend/amc/69216/typed 17 June 60

21 JUN 1960

Ice Fall, Dalton, Mass.

Dr [redacted]
[redacted]
Convair Astronautics
San Diego 12, Calif.

Dear Dr [redacted]

1. On 25 March 1960, the Aerospace Technical Intelligence Center received a report of an "ice fall" in Dalton, Massachusetts. A summary of this incident is attached to this correspondence.

2. As yet ATIC has no opinion concerning the origin of the ice.

3. This report is forwarded due to your interest in these cases as possible substantiation of your theory that the green fireball type meteors may be composed of frozen gases.

Sincerely,

NICHOLAS POST
Acting Deputy
Science and Components

2 Atch:
1. [redacted] Rpt #WMRC P60-7
2. Ice Fall Summary

COORDINATION:

Robert J. Friend Major AFCIN-4E2 20 June 60
Atch 2 hereto 6/2:/60

This case contains

1, 8"x10" photograph.



Very light
Typeface seems
almost bad by a few more
Great differences in comparing.