

mailed 1936 8/30

# THE AMERICAN METEOR SOCIETY

## BULLETIN NO. 13

FLOWER OBSERVATORY OF THE UNIVERSITY OF PENNSYLVANIA—REPRINT NO. 13

A very brilliant meteor or fireball is reported to have passed in your vicinity on 1936 Aug 17 at the hour of about 7.07. Will you please answer as fully as possible the following questions, which are asked on behalf of the American Meteor Society in order that permanent records of such phenomena may be obtained. When these reports are published each contributor whose report is fairly complete will be mentioned by name and due credit given. It is only by the help of those who can give personal information that data can be secured for the computation of the orbits of meteors. These

data are of great scientific value and all reasonable efforts should be made to obtain them. If you are unable to answer all questions below, answer those you can, as they may be of the greatest importance. Fill in replies in blank spaces left and enclose an additional sheet with any further comments or description if you need more space.

*Complete instructions are given at the end of the questions. Please read them all before attempting to write any answers.*

- (1) Give your name and address.

*Mrs. Eugene Stewart  
Frederick, Okla.*

- (2) Where were you when you saw the meteor?  
(If the town is small please give county as well.)

*Frederick, Okla., Tillman County*

- (3) Give the hour and minute when the meteor appeared; also kind of time used.

*Between 7:00 - 7:15 o'clock, Central Standard Time*

- (4) In what direction did it appear (or in what direction was it first seen)?

*20° N of E*

- (5) In what direction did it disappear (or in what direction was it last seen)?

For questions 4 and 5, simply N, E, S, or W is not accurate enough, unless these were the *exact* directions.

*30° N of N.E.*

- (6) At what height did it appear? (Use degrees in answering.)

*60° from horizon*

- (7) At what height did it disappear? (Use degrees in answering.)

*58° from horizon*

- (8) Did it pass *directly* overhead (i.e., through the zenith)?

- (9) If not, to which side of the zenith did it go, and how far from it? (Use degrees in answering.)

*please read instructions and answer as carefully as possible*

(10) Did it appear to reach the horizon?

No

(11) What angle did the path of the meteor make with the horizon and in which direction was it then going?

North and slightly east.

(12) If you are familiar with constellations describe the path of the meteor through the sky with reference to stars.

(13) Did the meteor appear to explode?

No

(14) What was the duration of its flight in seconds?

10.

(15) Describe the trail if one was left.

Smoke and falling pieces

(16) What was the duration of the trail in seconds?

(17) Did you hear any sound?

How long after seeing the meteor was it before you heard this sound?

No.

Did you hear an actual explosion?

How long after seeing the explosion was it before you heard it?

No.

(18) Of what color was the meteor?

Silver, red sparks

(19) What was the size of the meteor? (Compare it with the Moon or with a planet or star.)

note - The full moon to this lady looks the size of a dinner plate  
Compared to a full moon the size of a tennis ball

(20) Was more than one body seen before the explosion (if any)?

(21) Give names and addresses of others who saw the meteor.

Wilbur Kandle, Cordell, Oklahoma  
Floyd King, Frederick, Okla.

(22) Please mail this reply to

Owen Fry,

(was in Dallas at that time)

Oscar Monning  
312 W Linda  
Chas. P. Olivier,  
Flower Observatory,  
Upper Darby, Pa.

Fl Worth Inv.