THE METEORITICAL BULLETIN

THE FERMININT COMMISSION ON METECRITES OF THE INTERNATIONAL GEOLOGICAL CONGRESS

No 5 SEFTERBER, 1957 Moscow, USSR

1. DISCOVERY OF METEORITIC AND RETEORIC DUST IN SOIL FROM THE FLACE OF THE TUNGUSKA METEORITE FALL.

The particles of the meteoritic dust are small laminae with sharp corners, chips or pieces measuring a fraction of a millimeter or more, and are the result of the crushing of the meteorite during its fall (explosion). Spectrografic and microchemical analyses showed iron with a 7 to 10 per cont nickel content and approximately 0.7 per cent cobalt. The composition and presence of some dust particles clearly shaped as little columns promt the supposition that the Tunguska Meteorite is of the iron, octahedrite class.

The particles of dust are regular black globules (probably magnetite) 0.03 to 0.06 mm in diameter. So far only nine globules have been discovered and since there are very few of them, analyses have not been made. The globules are the result of melting of meteoritic matter during passage through the earth's atmosphere, and were part of the smoke-train of fire-ball that settled on the earth's surface and became mixed with the soil.

The study of the samples of the soil is being continued.

2. TWO NET AMERICAN METECRITES

1.

Name:

MAYDAY.

The place of discovery:

Latitude 39° 28' 28'' N., Longitude 96° 55.9'W. near a pond on a farm about two miles south-west of Mayday. Riley County, Kansas, USA.

Date of discovery

FOUND, July 1955, identified July 10, 1956.

Class and type:

S T O N E, black chondrite.

The number of separate specimens: 2. (However, it is the opinion of Mr. W.S. Houston and E.F. Henderson that it is a fragment of a larger mass that was broken off before it fell). It measures 10'' x 8'' x 6''. A fragment 2" x 1.5" x 1" was also found.

Total weight:

After some slices were removed the known weight is 6,905 grams.

The circumstances of the discovery:

Sometime in July 1955, "hen Mr. Roberts was visiting his farm pond which lies a half mile back of the house he noticed a stone sticking out of the ground just at the top of the bank. Curious, because it seemed a different color from the local rocks, he dug it out. It "asn't especially heavy. The original weight was taken but is now lost, but at present, after cutting some 6,906 grams remain. It is obviously a fragment off a larger piece, broken on impact, or at any rate near enough to the ground so that no secondary crust formed. Only about a third of the surface shows the original crust.

The chandrite has also obviously been in the ground for a long time. The broken surface is the same reddish color as the crust area, and the crust has no black on it at all.

Main mass is in the Kensas State College, Manhatten, Kensas. About 5 grams are in the U.S. National Museum.

Source:

1. "The Great Plains Observer", editor W.S. Houston, volum 1, number 5, dated October 1956, and 2. A letter written by E.P. Henderson to E.L. Krinov dated August 1, 1957.

2.

Name:

LA VILL.

The place of discovery:

Latitude 26° 16.3° N., Longitude 97° 54.1°W., 2.3 miles south-east of La Villa, Hidalgo County, Texas, USA.

Date of recovery: F 0 U N D, April, 1956, identified March 1957.

Class and type:

S T C N E, Chondrite.

The number of separate specimens: 1.

Total reight:

43.5 pounds (19.8 kilograms).

The circumstances of the discovery:

The meteorite was found in the course of farm work by a Mexican, Alfonso Robles, probably in early April 1956. It was carried to the end of the row and thrown out, but later recognized, apparently partly thru its weight, by Mr. Elmo Wade, the farm manager. He took it to his house. The stone is quite old and weathered. One side has a definite though not thick deposit of limestone. It is rounded and ellipsoidal in shape, with no cutstanding features or pittings. The original

crust is hardly evident, only oxidation. There is one fairly plane surface, indicating that the metaorite possibly broke along this side and that a somewhat smaller piece should be in the region.

Sources:

The main mass of the meteorite is in the Pan American College at Edinburg. Texas. USA.

1. A letter written by Oscar E. Monnig to
E.P. Henderson dated May 11, 1957, and 2. A
letter written by E.P. Henderson to E.L. Krison dated August 1, 1957.

THE LIST No 1.

of the meteorites, which are not included in the Catalogue of meteorites of Prior-Hey, 1953.

	No Name	The place Date Class The num- Total of discovery of dis-and ber of weight covery type separ. grams specim.
1	ANKOBER	Near Ankober, PALL, STONE, 1 6500 northest of July 7 chond- Addis Abeba, 1942 rits at Basso, in at 11:00 the zone of a.m. Bolede, Ethio- pia, Africa. 9 =100N, A = 4000.
2	BONITA SPRINGS	Bonita Springs, FOUND, STCHE, 1 41800 Lee County, Summer chondri- Florida, USA 1938 te - 26°16'N., - 81°45'V.

3	BUNUNU +)	20 miles south FELL, STONE, 1 357
		of Bununu and Spring achendrite
		50 miles south 1942
	•	of Beuche, North about
		Central Nigeria 10:00
		γ =10°N., εα.m. λ = 10°E. ε
4	CLOVER SPRINGS	About 13 miles FOUND, STONY. 27 \$700
		southwest of unknown IRON.
		Glover Springs, mesest-
	•	Gila County, Ari- derite
		zona "USA:
		$\Psi = 34^{\circ}27^{\circ}\text{H}.$
		λ = 111°22'W.
5	GIROUX +)	3 miles northeast FOUND, STONY- 1 4725
		of Girous, Manito. 1953 IRON,
		ba Canuda: 4 =49 pallu-
		60'N., \ -96°37'W. site
6	K. UFMAN	About four or FOUND, STONE, 1 23000
		five miles west about chond-
		of Kaufman, Kauf- 1893 rite
		mun County, Texas, black
		USA; Ψ =32°35'N.,) = 96°25'W.
7	SAINT PETER	St.Peter, Graham FOUND, STONE, ? ?
		County, Kansas, USA unknown chond-
		$4 = 39^{\circ}24'N.$, rite $\lambda = 100^{\circ}02'W.$
8	SUCCESS	Success, Clay Coun- FALL, STONE, 1 3500
		ty, Arkansas, USA April chondri-
		$\Psi = 36^{\circ}29^{\circ}N.$ 18.19241 to
		λ =98°40'W. between
		3:00 and
		4:00 a.m.

Remark: +) Meteorites included in Leonard's Catalogue for 1956.

Information on the meteorites in List Neo 1 was received by E.L.Krinov in a letter from E.P.Henderson dated August 1, 1957.

In future a list of the newly discovered meteorites not mentioned in Prior-Hey's Catalogue will be published regularly.

E.L. Krinov,

Vice-President of the Permanent Commission on Meteorites of the International Geological Congress.

The Committee on Meteorites of the Academy of Sciences, USSR, Osipenko 52, Moscow 127, USSR.