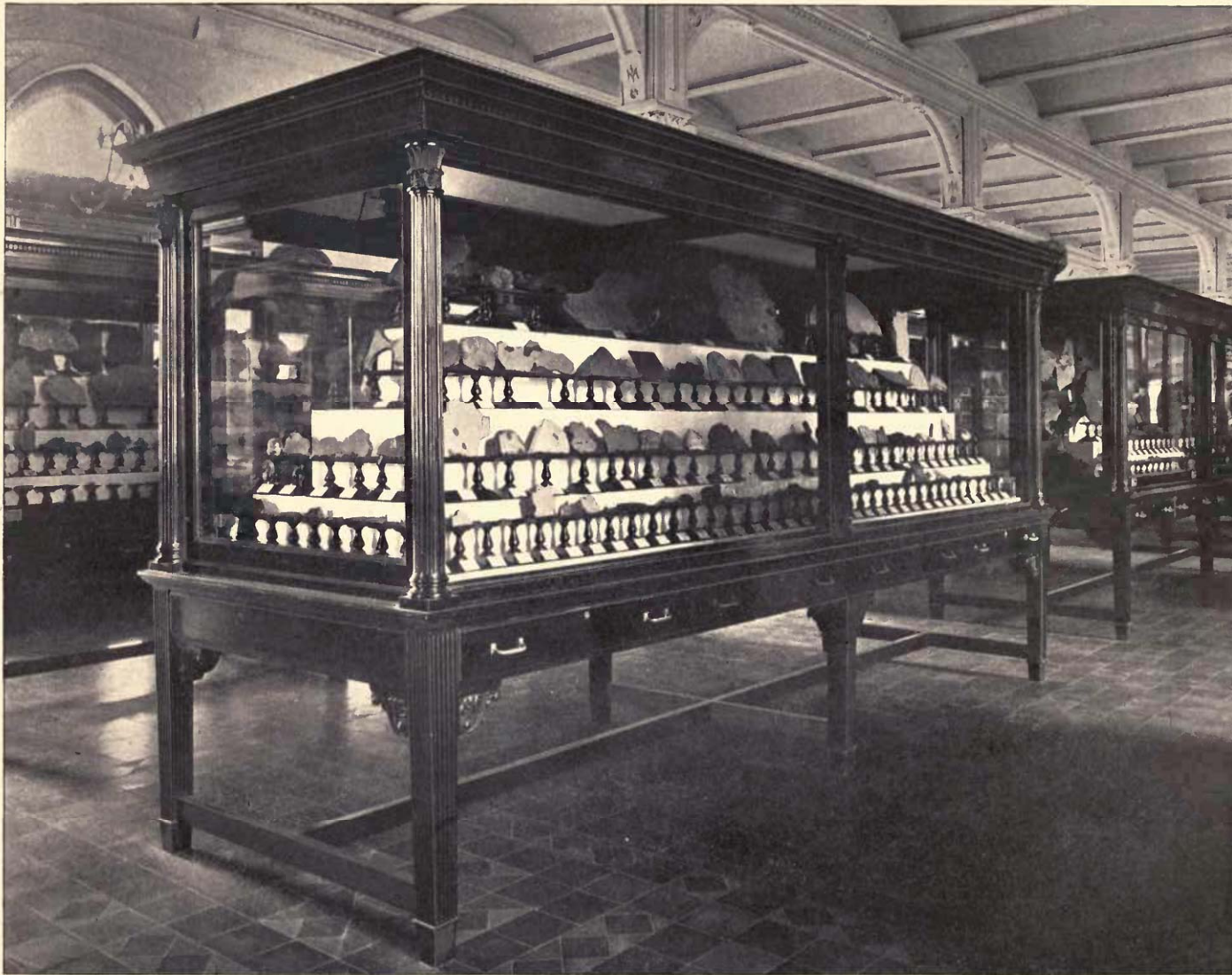




THE
WARD-COONLEY
COLLECTION
...OF...
METEORITES.



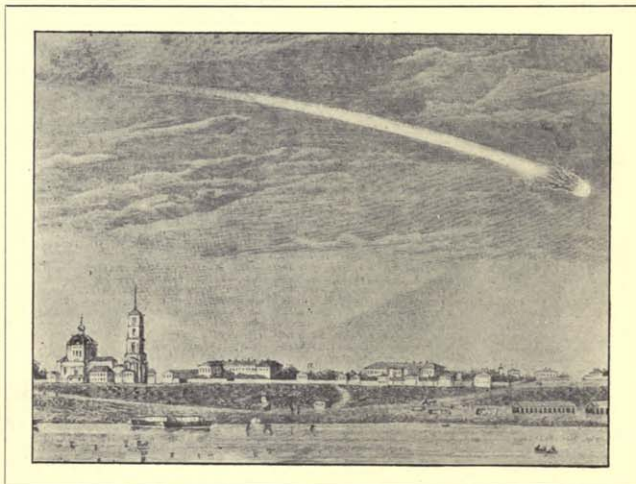
ONE OF SIX LARGEST CASES OF UNIFORM SIZE. (Ward-Coonley Collection of Meteorites.)

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CATALOGUE
OF THE
WARD-COONLEY
COLLECTION
OF
METEORITES

BY
HENRY A. WARD, A.M., LL.D.



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28/7/04

OCHANSEK, 1877
STELLA CADENS, TRANSVOLANS, TRANSCURRENS, TRANSVERSA.

CHICAGO, 1904

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CHICAGO, ILL

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PREFACE.

The Ward-Coonley collection of meteorites has now so nearly reached its expected limit that the time seems favorable for some notice of its origin and growth, together with a statement of its present contents.

The writer of this notice, Mr. Henry A. Ward, had in the course of travel and business activity been largely interested in several branches of nature, among which were meteorites. He made two large collections of these objects, one of which—about 170 falls—formed the basis of the present meteorite collection of the Field Columbian Museum of Chicago. The other—some 200 falls—went to enrich the fine Clarence S. Bement cabinet of these objects. The present collection, which has outstripped them all, was commenced in 1894 with a basis of a few score of choice falls which had been retained from previous transactions. For six subsequent years, during which Mr. Ward collected actively by purchase and exchange at home and in extensive travel abroad, the collection was so increased that in 1900 its first catalogue was issued, with enumerations and a short description of each of its falls. A second list followed in the ensuing year. We now (May, 1904) follow with this third catalogue. The growth which is thus successively registered is shown in the following table:

Catalogue of 1900	424 falls.	Weight 1399 Kilogrammes.
Catalogue of 1901	511 falls.	Weight 1786 Kilogrammes.
Catalogue of 1904	603 falls.	Weight 2495 Kilogrammes.

The increase of growth of the collection in four years of 179 falls, or 45 falls per year, for a collection already numbering 424 falls, is, we believe, unprecedented in the history of meteorite collections.

It may be not improper to notice the especial opportunities which enabled the accomplishing of this undertaking. How has so great a collection been made? From the first a large outlay of money has been necessary. "If one would bring back the wealth of the Indies, one must take the wealth of the Indies with him," is very true in meteorite gathering, as in any other collecting of highly expensive objects. At least one-third of all known meteorites are rated when sold in small pieces—which these rarest always are—at from one to five or even more times their weight in gold. And very few meteorites except in quite large pieces are rated so low as their weight in silver. Thus much money expenditure has been essential. But the managers of those half-dozen meteorite collections in the world which have passed the 400 mark are aware that direct money purchase generally quite fails as a means to secure the rarities. These must be sought by exchange of equally rare or attractive kinds. The museum curator must then take portions (usually small) from his rare kinds to give in exchange for portions (usually alike small) of the rarity which he seeks. This matter of exchange becomes thus the base and *vis viva* of nearly all acquisitions of subsequent already known kinds. The way in which the maker of the Ward-Coonley collection has applied this force is simple in statement, yet not altogether easy in execution. He has sought in a combination of money with extensive travel to continually obtain each year some new kinds which no other collection possessed. These he sought in all the continents, wherever there was sure

promise of obtaining them. Japan, Java, India, Australia, Persia, Siberia, South Africa, South and Central America have each responded to his quest, yielding him new and precious kinds with which to obtain from other museums meteorite rarities which no money would dislodge, and which were nowhere else obtainable. With some of these rarities always with him, he has visited every important meteorite collection in the world, most of them many times over in successive years. In all this the power of exchange as a force in building a meteorite collection has been carried to its extreme limit. There is a third and final power in such building which for a century past has powerfully aided the great European Museums. This is the fact that they have, in periods rarely separated by more than two decades, been the recipients, generally by posthumous gift or purchase, of some large and often celebrated meteorite cabinets. The British Museum, Paris, Tübingen, Vienna, Buda-Pesth, Dresden, Berlin, have all been several times thus endowed. These sources of growth have been recounted in each edition of their catalogues. The Ward-Coonley collection has enjoyed but three such wind-falls. One has been the sustaining of the Ward's Natural Science Establishment at Rochester, which has handled meteorites on a prodigious scale, and has during the last ten years joined its powerful efforts with those of the writer. In the second place, the collection of the late James R. Gregory of London. Mr. Gregory was a true lover of meteorites, and an ardent collector of them. His collection of 406 falls was at the time of his death the largest private meteorite collection in the world. This collection was three years ago put into my hands in its entirety, and I was enabled to add its richest treasures to the Ward-Coonley series.* Finally, I was last year enabled to purchase in St. Petersburg the entire collection of the late Excellenz Julien de Siemaschko. This collection of 402 falls was famous through the Continent of Europe for its comprehensiveness—particularly in the rare Russian and Siberian meteorites. The collection, which at the time of its owner's death (1896) was held at the price of 30,000 rubles, was last August purchased by me and added to my collection. In these ways, with conditions and antecedents particularly favorable, has the collection noted in this catalogue—The Ward-Coonley Collection—been made.

The writer is aware that there is much which is personal in this notice of his own work. His apology must be—if the value of the information given is not sufficient—that he has in this enumeration of contents and sources closely followed the plan of the catalogues of the large European collections. Only he has, unhappily, no list of donors to record.

In placing in the front line *Exchanges* as a means of building up a great museum, the writer would call attention to the easily confirmed and observable fact that those museums which have gone forward and have become great have pursued this course. Per contra, the museums of some important institutions—notably in Russia and in Spain—which refuse exchanges have remained stationary. The somewhat despairing remark of the curators of such museums has been, "I can do nothing not even to exchange a single gramme, without first submitting it to the consideration of the Museum Administration. They meet a few weeks or months hence." Growth of the museum is thus fatally atrophied, and the curator is left to study out the secret of why he, knowing all about the conditions of his subjects, should be *tied up* by a Board who have not that intimate knowledge, and whose action is thus largely perfunctory when not absolutely obstructive. There should be a wider and more liberal distribution of meteorites; both for the sake of science and the more material personal aim of

* Portions of this great Gregory collection may still be obtained from his son, Mr. Victor H. Gregory, 2 Burlington Gardens, Chiswick, W. London, England.

increasing each collection thereby. The present collection and that of the Royal Vienna Museum are eminent instances of what may be done in this way. It is pleasant to the writer to recall how, in the building up of the Ward-Coonley collection, several hundred other meteorite collections, public and private, have been at the same time built up. Wülfing (*Die Meteoriten in Sammlungen*) notices the fact that over seven-tenths of all known meteorites are in the hands of half a dozen great museums. But if it be hard to-day to get specimens from them, it is because they are seeking only new falls. As to the propriety of dividing a large meteorite, there will be different decisions according to the individual specimen under consideration. An aerolite, highly orientated and coated all around with a continuous crust, may well be held exempt from division—further than the few grammes essential for analysis and revealing of its inner structure. But such pieces are the great exception. In more than nine-tenths of the cases the stone has broken in the air or on its fall, and not only is not an integer or entire boloid, but is a fractional mass from which other fractions may be taken with absolutely no damage to its scientific value. In this matter the four large (Royal) museums of Europe appear quite in accord. It may not be amiss to repeat here what Wülfing (*loc. cit.*) has said upon the subject:

"Most Meteorites, especially the Irons, would attain a far greater use in a scientific way by being cut into. There are in many collections great masses of iron which have lain there for long decades of years, covered with the same coating of rust which they had when they were first found, and by reason of which their interesting structure can but slightly be recognized. This opinion has been expressed by many meteorite authorities. Partsch (in *Vienna Royal Mineral Cabinet*, 1843) says: 'Meteorite masses first receive their true scientific interest through attacking and etching.'

"Buchner says (*Pogg. Am.*, Vol. 116, 1862, p. 642): 'Men may wonder at a lump of meteorite iron on account of its size and weight, but so long as it has not a cut and polished section it hardly exists as an object of study. With preparation, its intrinsic value also increases.'

"Finally, Gustav Rose, as he studied the Berlin collection (*Abh. Berlin Acad.*, 1863) announced: 'I have caused the whole series of stone and of iron meteorites to be cut, and the latter (the irons) to be etched, because only thus can there be obtained an insight to the composition of the first and the structure of the latter.'"—(*Wülfing, Die Meteoriten, etc.*, University of Tübingen, 1897, pp. xx and xxi).*

Dr. Brezina, who by exchanges even more than by purchases built up in a masterful manner the Royal Vienna Museum during his Directorship of twenty years, tells us (*Catalogue of 1895*, p. 236) that of 78 meteorites which he had in a given period of time received, he had "unlocked (rendered available to science) 55 of them by cutting them, mostly with many sections, by which means I have obtained a large series of duplicates for other collections (exchanges), also entire series of pieces representing the locality." On the same page Dr. Brezina reports the acquisition of the Eagle Station Pallasite—"The most beautiful of all meteorites, weighing 36 kilogrammes, of which we have cut up in slices 16 kilogrammes."

The increase of a meteorite collection beyond about 400 kinds is at the present day so difficult as to be almost impossible. Purchasable kinds have at that mark been almost

*The writer takes this occasion to express at once his admiration of and his indebtedness to this most comprehensive and useful work. Its list of all meteorites known (in 1897) to science, the indications of where these falls have been scientifically described and where they are now mainly distributed, are invaluable. I say without hesitation and with true pleasure that without the eminent aid of Wülfing's book the Ward-Coonley collection would still be on the stocks.

wholly used up; and exchanges are impracticable with the largest collections, because in most cases the would-be exchanger has nothing new to offer them. Furthermore, the supply of possible material has given out, having found its final resting-place in the great museums, where it cannot be dislodged. Of many meteorites it is known where all is; of the others the part which has disappeared from view is apparently unlikely to be again found. Only the obtaining of new falls, and *all* of the fall, to-day gives material of value for adding any part of the final third to the structure of a world-collection. These are but four—the Vienna collection, the Paris ditto, that of the British Museum and the Ward-Coonley collection. The number of falls of the two latter are known—the British museum (*Cat. of March, 1904*) 577 falls, and the Ward-Coonley 603 falls. Vienna announced 560 falls in its last Catalogue, October, 1902, while the last Paris catalogue of 1898 announced 466 kinds. It would seem that these four will hold the lead as world-collections for the next one or two decades.

Each has its own factor of value in which it excels. But it probably could easily be shown that the meteorite collection of the Royal Vienna Museum leads all the other three. Professor Klein, the savant Director of the large (450 kinds) Royal Berlin Meteorite Cabinet, after telling us (*Cat. of 1903*) that "this extraordinary increase of our large collection is due to the disposal of large sums received from the general Government," still freely admits (*Cat. of 1904*) that "in Vienna is now displayed the largest of meteorite collections. And it will be hardly possible that any other collection will ever attain to it in educational force, beauty and size of the pieces." This collection is now under the directorship of Prof. Friedrich Berwerth, who is enthusiastically increasing its size and excellence. For the present time and until either Vienna or Paris museums issue new catalogues largely in advance of their present ones, the Ward-Coonley collection will bear the palm as to number of falls. As to its further factors of value, we will not speak in this place further than to mention the minor point that we have paid unusual attention to the display of the specimens. The collection is in seven beautiful cases of solid mahogany and plate glass, six of these uniform (12 feet by 4 feet by 7 feet) with the one depicted in the frontispiece, and one, one-third shorter, as shown at the end of this catalogue. The individual specimens, some 1600 in number, are mounted on handsome mahogany pedestals with carved stems, and labels are hand-printed on celluloid plate.

This collection is at present "on deposit" in the Geological Hall on the fourth floor of the American Museum of Natural History, 77th Street and Central Park, West, New York City. Its ultimate destination is undetermined.

Mr. Ward takes this occasion to express his eminent indebtedness to his assistant, Mr. Harry L. Preston, of Rochester, N. Y., who for more than ten years past has done all the mechanical work—notably the cutting, polishing, and etching, of the many thousand specimens involved in making this collection, also the mounting, labelling and listing.

INTRODUCTION

In accordance with established custom, we call attention in this introduction to features of the contents of the Ward-Coonley Collection. As may be seen on page 105, the geographic sources of the collection are world-wide. Australasia and Asia, Africa and South America are represented each by 95% of all their known meteorites, while North America and Europe bring up the train with 99% of the former and 97% of the latter. No collection in the world can say of itself more than this. Attention is particularly drawn to the series from Japan, Australia, Russia and Mexico. It is only within the last decade that the rare and interesting meteorites from these countries have been largely distributed. To-day it is true that in no collection in any one of these four countries are there so many kinds from that country as are represented in this collection. In Japan we have received powerful aid in exchanges with the Imperial Museum of Ueno, Tokio; in Australia, from the Australian Museum of Sydney, Prof. Edward F. Pittman, the Director of the Geological Survey, Dr. E. H. Sterling of Adelaide, South Australia, and Bernhard H. Woodward of the Perth (West Australia) Museum. In Russia we were given eminent position through the purchase of the Siemaschko Collection. While in Mexico during half a dozen visits we were much aided by Prof. Manuel Villada of the Museo Nacional, and of Prof. Jose C. Aguilera, the Director of the Instituto Geologico and of the Geological Survey. From Prof. W. L. Schaler of the Capetown (South Africa) Museum, and from the Director of the Geological Survey of India, we have had signal aid. It is interesting to note that while in the large series which we have received (by visit and by exchange) from the latter country and from Japan, we have received only two irons—the others being stones—we have in Australia and in Mexico received but two stones each, the others being irons. Much effort has been given in this Catalogue to giving the localities and geographical situation correctly. Our formula of latitude and longitude is based upon that first used by Brezina in the 1885 Catalogue of the Vienna Museum. His determinations for European localities have been largely accepted, while those for other countries—notably for the Western Hemisphere—have been wholly recast or, in the case of later falls, have been estimated for the first time. In recording the American specimens we have ever sought (and have often succeeded) to bring the simple “county” indications down to the exact locality. In some cases this has been the more essential because the name of the county itself has been changed since the meteorite fell; and a meteorite which fell in Macon County may now be Lee County, etc. In other cases the fall may have been so widespread that the county name may better be given. In still other cases we have given a principal point of fall, and have added the words “and vicinity.”

Closely allied to the question of locality is the question of *meteorite names*. There has not as yet been announced—as in Botany and Zoölogy—a code of nomenclature for meteorites. (It is to be hoped that this will soon be done, before further confusion arises.) The most common and most generally accepted rule for meteorite naming is to give the meteorite the name of the nearest place—town or village. Where this rule is adhered to, the place of fall or find is easily located without looking up the literature of the fall. It is unfortunate that in the first half of the last century, when our geography was less known and the country less

settled, the name of the county was in frequent cases given to the meteorite. Foreigners almost universally adopted this plan when noticing American meteorites, and they still adhere to it to the extent of causing infinite confusion and mistakes. Moreover, the efforts of certain foreign meteorite students—Museum directors—to diversify the names of American meteorites by altering them has also led them—not conversant with our geography—into infinite errors. These, fortunately, have not been perpetuated by being accepted in this country. A multitude of such cases—some of them quite startling—might be instanced.*

In the maze of synonyms in which all foreign meteorites have been involved by successive writers, I have tried to distinguish and accept those most generally accepted in the large European museums, particularly where these names accord with the rule of identity with locality. It is more than probable that many meteorites now called by separate names belong together. Close topographical contiguity of two stones or irons of general similarity of composition leads to the suspicion that they are of the same fall, even though it does not prove it. A geographical arrangement of a meteorite catalogue, like that of the British Museum, throwing together propinquity kinds, frequently suggests these suspicions. But too little has been done toward showing possible variations of different pieces in an observed fall or in different parts of the same large mass to make the question of distance from each other in those found an entirely safe one in the determination of identity. Brezina has called attention to the two well-observed falls of Jelica (1889, Am) and Guca (1891, C) at a distance of but 30 kilometers from each other. These, while so contiguous topographically, were distinct falls. Conversely, Brezina is disposed to consider Lerici, which fell on the 30th of January, 1868, at the town of that name on the gulf of Spezia, Italy, as being the same as Pultusk, which fell on the same date at Pultusk, in Poland. Another notable and better attested instance of this coincidence in time of distant falls is that of Duruma, which fell in Wanika Land, East Africa, on the 6th of March, 1853, and of Segowlee, which fell *on the same day* in Segowlee, Bengal Presidency, India. We have not undertaken to settle any of these questions of identity or diversity. We have accepted the names which seemed to be of most general acceptance and the most sure to be understood. Nor do we consider it desirable to collect and preserve—as is too often done in meteorite catalogues—the great body of synonyms, several hundred in number, which have been accumulating and clogging meteorite literature for a century past. They have no longer any important value, and should be dropped from the lists.

We have chosen to employ the alphabetic plan in enumerating the specimens of this catalogue. The chronological order has certainly great merit in that it gives all meteorites in the order in which they fell or were found. Among the aerolites, of so large a proportion of which the fall was seen, this manner of presenting them has its evident merits. An order based on the chemical or mineral composition is still more a natural and legitimate one. But for readiness in finding any desired object it is patent that nothing is so easy and so ready in use as is an alphabetical arrangement. In regard to the dates of fall or find of meteorites, there is considerable discrepancy among the various authors as to a small portion of the

*We have frequently wondered why Glorieta, New Mexico, and Trinity County, California, should be so persistently considered abroad as synonymous (See Wülfing, *Die Meteoriten in Sammlungen*, pp. 127, 366). But the whole secret is exposed when we find that Canoncito—a little cañon near Glorieta—is noted in the pages of the Vienna Museum Catalogues of 1895 and 1902 as being the same as Canyon City, the well-known synonym of the Trinity County, California, fall. As these places are about 1050 miles apart, as one iron is Om. and the other Og., and as one was found in 1875 and the other in 1884, it seems desirable that they should be kept distinct.

whole. We have corrected those so far as practicable. And the student will be further aided by our notice of the author and place of first description of each specimen. Their early notice of the meteorite gives a certain probability to their truest knowledge of the date.

We have given the weights of our specimens in two columns. The first gives weight of our largest piece, the second the total weight which we possess of the kind. We follow usual custom in measuring this weight in grammes; we differ from the majority of catalogues in ignoring any fraction of a gramme.*

As a rule our specimens are of many grammes. Indeed, the average of the individual weights of our 603 falls, after eliminating the great masses from the estimate, is, as given on page 105, about 4 pounds—nearly 2 kilogrammes each. A collection with so large a number necessarily includes many falls which were of small weight at the outset, and of which only the large museums have specimens, and these perforce very small—of a few grammes each. There is here no criticism to be made of the specimen being small, but of congratulation on the fall being represented at all. In this feature of the size of the individual specimens it is evident that the smaller collections have opportunity for higher average. Entire boloids—masses which have not been broken since they reached our earth, and are covered on all sides with the crust—are interesting as showing the treatment of the piece by aerial friction and heat action. And the larger they are the greater the surface on which such phenomena are registered. We have a few such entire boloids—notably Baratta, weighing 175 pounds and nearly two feet in length, with several much larger iron masses. In other instances we have specimens showing how small are some entire boloids when they reach our earth after the tribulations of the “middle passage.” We have such meteorite integers of the Pultusk, Forest City and Estherville falls, which are but little more than a centimeter in diameter, and weigh but 2 or 3 grammes.†

Of some of these abundant showers we have several score of specimens of very different sizes. These are of highest interest as showing the breaking up of large masses in an early part of their passage through the air-belt of our planet. A single sample—of a few grammes—which we possess of meteoric dust brought by Baron Nordenskiöld from the snow-fields of Northern Finland is of high interest as probably showing the ultimate trituration of meteoric matter.‡ In our large meteorite series are specimens which illustrate the phenomena of pitting, striation and furrowing of their external surfaces both among Aerolites (Baratta, Knyahinya, Tabor, etc.) and among Siderites, as Cañon Diablo, Glorieta, Youndegin and others. The inner features of the mass, Chondri (Allegan and Bjurbole), Veins (Farmington, Schönberg and Zavid), Breccias resulting from the reunion of distinct mineral or rock fragments (Parnallee, Mezo-Madaras, Fukotomi), and metamorphism analogous to that of our marbles (Tadjera) are shown in a diversity of specimens in this collection. Also the different iron structures are brought out in the Widmanstätten figures—octahedral, hexagonal, etc., alloys and inclusions, together with instances of curved lamellae (Glorieta, Toluca,

*Life is hardly long enough in our estimation to watch the scales in deciding whether one of our meteorites weighs 9170 grammes or 9170.01 grammes! An old catalogue of the British Museum notes its specimen of Rancho de la Pila as weighing 46,512.4 grammes. Can they weigh it a second time and get the same fraction?

†The smallest meteorite known, or strongly supposed, to have been a distinct entire fall (not one in a meteorite shower) is the Mühlah Aerolite, which was found at the village of that name near Innsbruck in the Tyrol in 1877. It weighs 5 grammes, and is sacredly preserved in the Royal Vienna Museum.

‡The deposits found at the bottom of the ocean by the Government exploring ship Challenger and described by Mr. John Murray are thought by him and by the astronomer Proctor to be the submarine equivalent of this meteoric dust, and alike of cosmic origin.

faults (Puquios), slickensides (Tennassilm), etc. We have made no enumeration of the score or more of Pseudo-meteorites—fragments of stone or iron purely of terrestrial origin which are from time to time brought forward as true cosmic bodies. These are not unfrequently enumerated in catalogues—even those of the great museums. We consider it a true misfortune that prominence should thus be allowed to the unreal, and that ancient blunders should be given a continued lease of life.

Within the alphabetical arrangement of the meteorites of this catalogue we have chosen the three main divisions first announced by Story-Maskelyne, and still continued in the catalogue of the meteorites of the British Museum—of Siderites, Siderolites, and Aerolites; the former division including all these meteorites whose composition is almost wholly iron, more or less alloyed with nickel. Those in which silicates—notably Olivine, Enstatite and Bronzite—abound, with little or no iron as aerolites; while the siderolites stand as an intermediate group in which there is a mingling of metallic nickel-iron with stony matter. The former of these groups is the most constant in its composition as well as its structure; the latter is the least constantly and sharply defined. We have given to each meteorite fall a letter-symbol indicating its position in a taxonomic classification. The detail of this classification will be found on pages 97-103. It is the latest expression of Dr. Brezina of Vienna on this subject. The system is essentially that published in his catalogue of the Vienna Museum meteorites in 1896, with its groups based on structural peculiarities augmented by some groups newly found or newly determined. Of the former is (12) Leucituranolite, based on the Schafstädt aerolite (fell June, 1891) and lately described by Professor Klein of Berlin; (43) Crystalline Enstatite Chondrite, based on Hvittis, fell 1901; (62 and 65) on the alike new falls of Kodai-kanal (India) and N'Gourema in the Soudan. Among groups based on new determinations are (27) veined black chondrite—Farmington—separated from black chondrite; (44) Mezosiderites and (45) Grahamite have been separated from each other. The Hexahedrites and the Ataxites have been rearranged according to numerous researches of Cohen and Brezina, and new definitions have been given for them. A number of meteorites have changed their places in the system according to fuller researches on better material—a thing which is likely to continue in the future. It probably can be claimed by no system of meteorite classification that it has further value than a measure of adaptability to bring together falls of generally similar structure and appearances. Analysts and petrographers have still important work to do here. It is to be hoped that they may employ some more natural and less empirical bases for classificatory purposes. We have shown on page 104 how the present collection represents all of Brezina's 74 meteorite groups, with 95% of all the falls.

NOTEWORTHY SPECIMENS

Turning over the pages of our catalogue, we find not a few score of meteorites which present points of especial interest. First among the siderites, Arispe—the Sonora Iron of late (1888) discovery—besides its important size, has special interest in its tripartite structure. A section of the mass shows three areas with differently orientated series of kamacite bands showing distinct centers of structural growth. Our main slice is the type specimen of a description of this iron. Another iron from West Africa presents a feature superficially similar which has been the subject of two memoirs by Professors Berwerth and Brezina of Vienna and Professor Cohen of Greifswald. The former describes four distinct areas of

this iron as due to the twinning of a gigantic crystal. Our series of specimens of Cañon Diablo is very large, from small, thin, sharp-edged nuggets to masses of several hundredweight each. The largest mass, weighing 38½ kilogrammes, has two holes several inches in diameter passing directly through the mass. Several of the other masses have these holes, which were doubtless once filled with cylindrical nodules of Troilite. Indeed, one most interesting specimen contains the Troilite filling still remaining at the bottom of a half-emptied hole. Sections of the Bella Roca iron, as also the Toluca, show alike large Troilite inclusions, while the Australian Youndegin has the deep concavities and bores quite the counterpart of Cañon Diablo. In like manner are inclusions of Schreibersite profusely present in our slices of Chupaderos and Tombigbee River irons. In the latter, the sulphid shows itself through the mass in zigzag lines strongly suggesting Hebrew characters.

Ballinoo, of which we brought the main mass from West Australia, is the only iron which presents two zones of alteration—the outer one shining, the other dull. This and Tazewell, of which latter we have a handsome slab, have the added and most exceptional feature of showing dodecahedral lamellae besides the octahedral ones. There are several pieces of Glorieta, one of them a slice with curved lamellae, a feature which shows better here than in any other meteoric iron. The other is a lengthened mass of flattened cylindrical shape and weighing about 2 kilogrammes, which has upon its lower surface distinct shallow cavities about 1 centimeter in diameter, filled with a pale yellow Olivine. The Puquios iron (first brought by us from Chili) shows a clear *faulting* in some of the kamecite bands. One large slice of Casas Grandes—the great mass of which is in the National Museum at Washington—is a prehistoric iron found in a cave with mummied objects in the State of Chihuahua, Mexico. Other irons in the collection are Charcas, State of Luis Potosi, Mexico, and Victoria on the Saskatchewan River in British America, both of which have been objects of worship by the indigenous people within historical times. The oldest iron, and indeed the oldest well authenticated meteorite, is Elbogen, which was known from early in the fifteenth century. Of this we have a piece, as also of Brannau, which was seen to fall in 1847, and through the study of which Widmanstädt first called attention to the structural figures which have since borne his name. Among siderolites we may notice several unusually large slices of the Brenham Pallasite, with the olivine-filled cells about equaling in volume the iron net-work. Of the Siberian Pallasite Pavlodar (Jamyschewka) we have the largest known piece, with a still larger piece of Marjalahti, a Finland congener which fell two years ago on the west shore of Lake Ladoga. One of the rarest pieces of the collection is a piece weighing one kilogramme of Veramin, a celebrated meteorite in the possession of the Shah of Persia.

Finally, we have a series of nearly fifty pieces varying in size from 5 grammes to 10 pounds of the Estherville, Iowa, meteorite.

AEROLITES.

Of the aerolites we have among our 333 localities many which are of especial rarity or notable from structural or mineralogical interest. Noticing them alphabetically, Baratta, obtained two years since from the place of its fall in Australia, is the largest piece of its fall and one of the largest of aerolites, being nearly two feet long, and is crusted and pitted over its entire surface. It is also noteworthy from the very different sizes of its abundant chondri. Bjurböle, from Finland, is noteworthy from the great size of its chondri, which are of marked

fibro-crystalline structure and are loose in the matrix. Ensisheim is the oldest of recorded aerolite falls—1492. Ergheo is a brecciated chondrite from the northeastern corner of Africa—Somali Land. Farmington, the second greatest Kansas meteorite, is represented by a large slab in which are well seen the fissures which, as has been suggested by Preston, have been filled at a later period with veins of black molten metallic matter. Hvittis, a Finland meteorite of recent fall, is interesting from its unusual per cent of the mineral Oldhamite. Indarch is the largest and heaviest known piece of this or any other of the limited group of carbonaceous meteorites—a noble crusted mass, weighing over 18 kilogrammes. It is accompanied by all the other members of the group, five in number, including among them a magnificent mass of Mighei, also unique in size. Kesen, a well crusted and deeply pitted meteorite, is interesting as a stone which was given sacred honors for many years in a Buddhist temple. MacKinney, a black chondrite, is a piece of nearly a hundredweight. Of Ness County, Kansas, we have many pieces, all handsomely covered with a thick crust. Of Nobleborough—the rarest American aerolite—we have a large piece, with shining black crust. The Russian diamond-bearing meteorite Novo urei is represented by a handsome specimen. Of Pipe Creek we have the largest mass, weighing nearly 4 kilogrammes. Of the interesting meteorite Saline, we have a noble slice, as well as an outside crust. Professor Farmington, describing this meteorite in *Science*, notices its structure, a veined spherulitic chondrite, as allied to Werchne Tschirskaya (Russia) and Trenzano (Italy), both of which, like Saline, fell in mid-November on the date of the Leonid star showers. We note further that Bath Furnace, Kentucky, of which we obtained the main mass, is also a veined chondrite and fell on the same date (15th of November) in 1902. Also, of the Russian meteorite Tabory (Ochansk; see cut on title page) we have two masses of several kilogrammes each, one well crusted.

Finally the Lujan, from Buenos Ayres, which is the only recorded instance of an undoubted geological meteorite.

In closing we enumerate thirty meteorite falls—about equally divided between Irons and Stones—of which the largest single piece or part in any museum is now in the Ward-Coonley collection.

SIDERITES.	Weight in Grammes	AEROLITES.	Weight in Grammes
ARISPE.....	34,442	BARATTA.....	84,694
BACUBIRITO.....	1,630	BLUFF.....	21,707
BALLINOO.....	11,049	CASTINE.....	42
CANON DIABLO.....	1,262,203	INDARCH.....	20,035
CANYON CITY.....	4,734	MACKINNEY.....	51,230
CENTRAL MISSOURI.....	2,535	MIGHEI.....	2,357
COSTILLA PEAK.....	8,544	NESS COUNTY.....	13,267
ILLINOIS GULCH.....	830	OAKLEY.....	8,910
LUIS LOPEZ.....	3,124	PETERSBURG.....	224
NEJED.....	50,233	PIPE CREEK.....	3,965
ROEBORNE.....	34,548	RUSHVILLE.....	23
SAINT GENEVIEVE.....	106,050		
SURPRISE SPRINGS.....	1,410	SIDEROLITES.	
TONGANOXIE.....	709	MORRISTOWN.....	4,259
UTE PASS.....	120	PAVLODAR.....	1,414
WILLAMETTE.....	25,125	VERAMIN.....	1,037

HENRY A. WARD.

620 Division Street, Chicago, Ill., May, 1904.

CATALOGUE OF METEORITES.

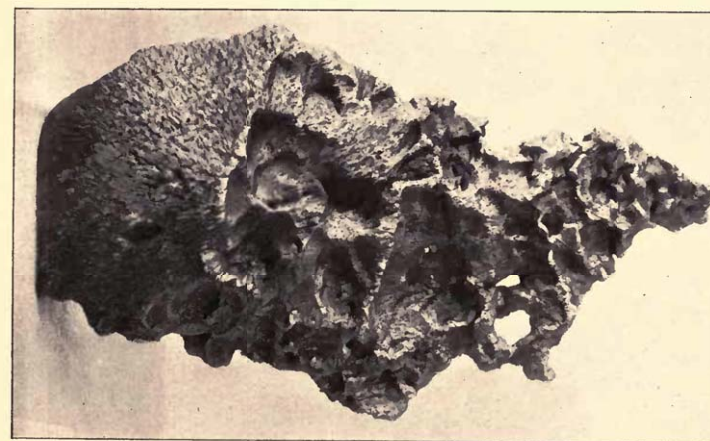
A. IRON METEORITES: SIDERITES.

CHRONOLOGY OF THOSE SEEN TO FALL.

No.	Date of Fall.	NAME OF THE METEORITE, with geographical index of locality.	Chief Piece.	Total Weight.
			Grammes.	
1	1751, May 26	HRASCHINA —Medium Octahedrite Om Hraschina (46° 6' N, 16° 20' E*), Agram, Croatia, S. W. Hungary. Described, Güssman, 1785, <i>Lythophylaceum Mitisanum Dissertatione praeuia et observationibus perpetuis physico mineralogicis explicatum a Francisco Güssman. Viennae typis Josephi Nobilis de Kurzbeck</i> , 1785, Vol. 2, pp. 127-131.	9	9
2	1835, Aug. 1	CHARLOTTE —Fine Octahedrite Of Charlotte (36° 13' N, 87° 20' W), Dickson County, 35 miles west of Nashville, Central Tennessee, U. S. A. Described, Troost, 1845, <i>Am. Jour. Science</i> , Ser. 1, Vol. 49, pp. 337-340.	5	5
3	1847, July 14	BRAUNAU —Normal Hexahedrite H Braunau (50° 36' N, 16° 20' E), Hauptmannsdorf and Ziegelschlag, District of Königgrätz, N. E. Bohemia. Described, Humboldt, 1847, <i>Comptes Rendus</i> , Vol. 25, p. 627.	276	329
4	1870, Jan. 23	NEDAGOLLA —Ataxite, Nedagolla Group Dn Nedagolla (17° 35' N, 82° 20' E), 6 miles south of Parvatipur, Vizapatam District, Madras Presidency, India. Recorded, Saxton, 1870, <i>Letter in Proc. Roy. Soc. of Bengal</i> , pp. 64-65.	9	14
5	1876, Apr. 20	ROWTON —Medium Octahedrite Om Rowton (52° 48' N, 2° 32' W), 7 miles north of the Wrekin, Wellington, Shropshire, England. Described, Flight, 1882, <i>Philos. Trans. Royal Soc.</i> , Vol. 3, pp. 894-896.	13	13

*Longitude given from Meridian of Greenwich.

No.	Date of Fall.	NAME OF THE METEORITE, with geographical index of locality.	Chief Piece.	Total Weight.
			Grammes.	
6	1885, Nov. 27	MAZAPIL —Medium Octahedrite Om Rancheria de Concepcion (24° 35' N, 102° 15' W), 8 miles east of Mazapil, State of Zacatecas, Mexico. Described, Hidden, 1887, <i>Am. Jour. Science</i> , Ser. 3, Vol. 33, pp. 221-226.	20	20
7	1886, Mar. 27	CABIN CREEK —Medium Octahedrite Om Six miles east of Lamar (35° 24' N, 93° 17' W), Johnson County, Arkansas, U. S. A. Described, Kimz, 1887, <i>Am. Jour. Science</i> , Ser. 3, Vol. 33, pp. 494-499.	2	2
8	1898, Aug. 1	QUESA —Fine Octahedrite Of Quesa (39° 0' N, 0° 40' W), District of Enguerra, Province of Valencia, Spain. Described, Cohen, 1899, <i>Mittheil. Nat. Ver. für Neu-Pom. u. Rügen</i> , Bd. 31, pp. 63-66.	1	1
9	1900, June 15	N'GOUREMA —Brecciated Oct. N'Gourema Group Obzg N'Gourema (12° 20' N, 6° 0' W), 20 miles north of Koakouru, the port of Jenneh on Island of Massina, Province of Massina, Upper Niger, Sudan, Africa. Described, Meunier, 1901, <i>Comptes Rendus</i> , Vol. 132, No. 7, pp. 441-442.	885	885



N'GOUREMA METEORITE (CAST).

SIDERITES.

3

No.	Found, Noticed or Described.	NAME OF THE METEORITE, with geographical index of locality.	Chief Piece.	Total Weight.
			Grammes.	
10	1887	ABERT IRON —Medium Octahedrite Om Locality unknown. From old collection of Col. J. J. Abert. Main mass now in National Mus- eum, Washington, U. S. A. Described, Riggs, 1887, Bull. U. S. Geol. Surv., No. 42, pp. 95-96.....	49	49
11	1780	ADARGAS (Concepcion)—Medium Octahedrite Om Sierra de las Adargas (26° 6' N, 105° 14' W), nine leagues south of Jimenez, State of Chihuahua, Mexico. Described, Bartlett, Personal Narrative of Explor- ations in Texas, New Mexico, California, Sonora, and Chihuahua. New York, 1854, Vol. 2, p. 457.....	264	375
12	1887	ALGOMA —Medium Octahedrite Om Algoma (44° 30' N, 87° 30' W), Kewaunee County, Wisconsin, U. S. A. Described, Hobbs, 1903, Bull. Geol. Soc. of Am., Vol. 14, pp. 97-116.....	10	10
13	1898	ALT BIELA —Fine Octahedrite Of Alt Biela (49° 49' N, 18° 17' W), near Ostrau, Moravia, Austria.....	19	19
14	1889	AMATES —Medium Octahedrite Om Rancho de los Amates (18° 30' N, 99° 22' W), N. of Iguala, State of Guerrero, Mexico. Described, Castillo, 1889, Cat. Descript. des Météorites du Mexique, p. 3, Paris, 1889.....	3	3
15	1889	APOALA —Fine Octahedrite Of Apoala (17° 40' N, 97° 0' W), 10 miles east of Coixtlahuaca, State of Oaxaca, Mexico. Main mass (85 kilos) in the Museum of the Insti- tute Geologico, City of Mexico, not yet described	2182	2182
16	1898	ARISPE —Broadest Octahedrite Ogg Arispe, (30° 15' N, 110° 0' W) State of Sonora, Mexico. Described, H. A. Ward, 1902, Proc. Rochester Acad. Science, Vol. 4, pp. 79-88.....	33114	34442
17	1894	ARLINGTON —Medium Octahedrite Om Arlington (44° 30' N, 93° 56' W), Sibley County, Minnesota, U. S. A. Described, Winchell, 1896, The American Geolo- gist Vol. 18, No. 5, pp. 267-271.....	94	94
18	1839	ASHEVILLE —Medium Octahedrite Om Baird's Farm (35° 44' N, 82° 30' W), 6 miles N. of Asheville, Buncombe County, North Carolina, U. S. A. Described, Shepard, 1839, Am. Jour. Science, Ser. 1, Vol. 36, pp. 81-85.....	5	5

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WARD-COONLEY COLLECTION OF METEORITES.

No.	Found, Noticed or Described.	NAME OF THE METEORITE, with geographical index of locality.	Chief Piece.	Total Weight.
			Grammes.	
19	1867	AUBURN —Normal Hexahedrite II Auburn (32° 37' N, 85° 32' W), Lee County (form- erly Macon County), Alabama, U. S. A. Described, Shepard, 1869, Amer. Jour. Science, Ser. 2, Vol. 47, pp. 230-233.....	17	17
20	1890	AUGUSTINOWKA —Fine Octahedrite Of Augustinowka (48° 20' N, 35° 0' E), Government Ekaterinoslaw, Southern Russia. Described, Alexejew, 1893, Verh. russ. Min. Ges., Vol. 2, pp. 30 and 470.....	794	1077
21	1842	BABB'S MILL —Ataxite. Babb's Mill Group Db Babb's Mill (36° 18' N, 82° 54' W), 10 miles N. of Greenville, Greene County, Tennessee, U. S. A. Described, Troost, 1845, Am. Jour. Science, Ser. 1, Vol. 49, pp. 342-344.....	72	89
22	1871	BACUEIRITO —Finest Octahedrite Off El Ranchito (26° 0' N, 107° 54' W), State of Sinaloa, Mexico. Described, H. A. Ward, 1902, Proc. Rochester Acad. Science, Vol. 4, pp. 67-74.....	1502	1630
23	1891	BALD EAGLE —Medium Octahedrite Om Bald Eagle Mountain (41° 12' N, 77° 5' W), 7 miles S. of Williamsport, Pennsylvania, U. S. A. Described, Owens, 1892, Am. Jour. Science, Ser. 3, Vol. 43, pp. 423-424.....	300	300
24	1892	BALLINOO —Finest Octahedrite Off Ten miles south of Ballinoo (26° 30' S, 116° 30' E), Murchison River, West Australia. Described, H. A. Ward, 1898, Am. Jour. Science, Ser. 4, Vol. 5, pp. 136-137.....	8448	11049
25	1855	BARRANCA BLANCA —Brecciated Octahedrite Obz Barranca Blanca (28° 0' S, 69° 10' W), Pass through the Cordilleras from Atacama Desert, Chile, South America. Described, Fletcher, 1889, Mineralog. Magazine, Vol. 8, pp. 224, 262-263.....	28	43
26	1897	BEACNSFIELD —Broad Octahedrite Og (Cranbourne) (38° 31' S, 145° 30' E), east of Ber- wick, Mornington, Victoria, Australia. Described, Cohen, 1897, Sitzungsber. Königl. Preuss. Acad. der Wissensch., Berlin.....	815	815
27	1866	BEAR CREEK —Fine Octahedrite Of Aerictopos (39° 38' N, 105° 16' W), Jefferson County, Colorado, U. S. A. Described, Shepard, Am. Jour. Science, Ser. 2, Vol. 42, pp. 250, 251.....	62	62

SIDERITES.

5

No.	Found, Noticed or Described.	NAME OF THE METEORITE, with geographical index of locality.	Chief Piece.	Total Weight.
			Grammes.	
28	1888	BELLA ROCA —Fine Octahedrite Of La Belle Roca (24° 55' N, 105° 25' W), Sierra de San Francisco, State of Durango, Mexico. Described, Whitfield, 1889, Am. Jour. Science, Ser. 3, Vol. 37, pp. 439, 440.....	754	1224
29	1784	BENDEGO —Coarse Octahedrite Og Bendego (10° 20' S, 40° 10' W), Province of Bahia, Brazil. Described, Mornay, 1816, Phil. Trans., pp. 270- 280	735	1678
30	1880	BINGARA —Granular Hexahedrite Ha Bingara (29° 55' S, 151° 35' E), New South Wales, Australia. Described, Liversidge, 1880, Jour. Roy. Soc. of New South Wales, Vol. 14, pp. 308-310.....	1	1
31	1888	BISCHTUBE —Broad Octahedrite Og Bischtube (49° 40' N, 64° 10' E), Province of Turgai, Western Siberia. Described, Kislakovsky, 1890, Bull. Soc. Imp. des Naturalistes de Moscou, Nr. 2, pp. 187-199....	1896	2564
32	1835	BLACK MOUNTAIN —Broad Octahedrite Og Black Mountain (35° 53' N, 80° 3' W), Buncombe County, North Carolina, U. S. A. Described, Shepard, 1847, Am. Jour. Science, Ser. 2, Vol. 4, pp. 82, 83.....	7	7
33	1890	BLUE TIER —Medium Octahedrite Om Northeast coast (42° 0' S, 148° 0' E), Tasmania, Australasia. Described, Petterd, 1893, Catalogue of Minerals of Tasmania, p. 40.....	9	9
34	1829	BOHUMILITZ —Broad Octahedrite Og Bohumilitz (49° 6' N, 13° 49' E), District of Prachin, Southwest Bohemia. Described, Verh. Ges. d. Vaterl. Museums v. Böhmen, April 3, 1830, p. 15.....	1605	1703
35	1890	BRIDGEWATER —Fine Octahedrite Of Bridgewater Station (35° 45' N, 81° 53' W), Burke County, North Carolina, U. S. A. Described, Kunz, 1890, Am. Jour. Science, Ser. 3, Vol. 40, pp. 320-322.....	83	83
36	1819	BURLINGTON —Medium Octahedrite Om Cooperstown (42° 40' N, 75° 8' W), Otsego County, New York, U. S. A. Described, Pierce, 1844, Am. Jour. Science, Ser. 1, Vol. 46, pp. 401-403.....	62	122

WARD-COONLEY COLLECTION OF METEORITES.

6

No.	Found, Noticed or Described.	NAME OF THE METEORITE, with geographical index of locality.	Chief Piece.	Total Weight.
			Grammes.	
37	1874	BUTLER —Finest Octahedrite Off Butler (38° 18' N, 94° 25' W), Bates County, Missouri, U. S. A. Described, Broadhead, 1875, Am. Jour. Science, Ser. 3, Vol. 10, p. 401.....	110	192
38	1867	CACARIA —Octahedrite, Hammond Group Oh Cacaria (24° 28' N, 104° 50' W), north of City of Durango, State of Durango, Mexico. Described, Castillo, 1889, Cat. Descript. des Météorites du Mexique, p. 5, Paris, 1889.....	74	74
39	1818	CAMBRIA —Fine Octahedrite Of Seven miles northwest of Lockport (43° 13' N, 78° 45' W), Niagara County, New York, U. S. A. Described, Silliman, 1845, Am. Jour. Science, Ser. 1, Vol. 48, pp. 388-392.....	100	180
40	1783	CAMPO DEL CIELO —Ataxite, Siratie Group Ds Otumpa (27° 40' S, 62° 37' W), Territory of Gran Chaco, Argentine Republic. Described, Don Rubin de Celis, 1788, Phil. Trans., Vol. 78, pp. 37-42.....	532	793
41	1891	CAÑON DIABLO —Broad Octahedrite Og Cañon Diablo (35° 10' N, 111° 7' W), Coconino County, Central Arizona, U. S. A. Described, Foote, 1891, Am. Jour. Science, Ser. 3, Vol. 42, pp. 413-417.....	383292	1262203
42	1894	CANTON —Broadest Octahedrite Ogg Cherokee Mills (34° 12' N, 84° 30' W), Cherokee County, Georgia, U. S. A. Described, Howell, 1895, Am. Jour. Science, Ser. 3, Vol. 50, p. 252.....	158	310
43	1875	CANYON CITY —Broad Octahedrite Og (Trinity County) (40° 55' N, 123° 5' W), Trinity County, Northern California, U. S. A. Described, Shepard, 1885, Am. Jour. Science, Ser. 3, Vol. 29, p. 469.....	4320	4734
44	1793	CAPE OF GOOD HOPE —Ataxite. Cape Group De (Cape Iron) (34° 40' S, 26° 0' E), Cape Colony, South Africa. Described, Barrow, 1801. Account of Travels into the Interior of Southern Africa, p. 226, Lon- don, 1801.....	169	225
45	1818	CAPE YORK —Medium Octahedrite Om Fifty miles east of Cape York (76° 12' N, 65° 0' W), Melville Bay, northwest coast of Greenland. Described, Peary, 1898, Northward over the Great Ice, Vol. 2, Chapter 6, pp. 125-155.....	15	15

SIDERITES.

7

No.	Found, Noticed or Described.	NAME OF THE METEORITE, with geographical index of locality.	Chief Piece.	Total Weight.
			Grammes.	
46	1869	CAPERR —Medium Octahedrite Om Caperr (45° 15' S, 70° 20' W), Rio Senguer, Chubut Province, North Patagonia. Described, Fletcher, 1899, Mineralog. Mag., Vol. 12, No. 56, pp. 167-170.	9	9
47	1887	CARLTON —Finest Octahedrite Off Carlton (31° 50' N, 98° 10' W), Hamilton County, Central Texas, U. S. A. Described, Howell, 1890, Proc. Rochester Acad. of Science, Vol. 1, pp. 87-89.	2882	5592
48	1844	CARTHAGE —Medium Octahedrite Om (Caney Fork) (36° 20' N, 85° 56' W), Smith County, Tennessee, U. S. A. Described, Troost, 1846, Am. Jour. Science, Ser. 2, Vol. 2, pp. 356, 357.	447	447
49	Prehistoric	CASAS GRANDES —Medium Octahedrite Om Malantzin (30° 27' N, 107° 48' W), State of Chihuahua, Mexico. Described, Tarayre, 1867, Archiv. de la Com. Sci. du Mexique, Vol. 3, p. 348.	6003	8503
50	1877	CASEY COUNTY —Broad Octahedrite Og Casey County (37° 20' N, 84° 55' W), Central Kentucky, U. S. A. Reported, Smith, 1877, Am. Jour. Science, Ser. 3, Vol. 14, p. 246.	22	43
51	1885	CENTRAL MISSOURI —Broadest Octahedrite Ogg Central portion of State of Missouri, U. S. A. Described, Preston, 1900, Am. Jour. Science, Ser. 4, Vol. 9, No. 52, pp. 285, 286.	2535	2535
52	1814	CHARCAS —Medium Octahedrite Om Charcas (23° 0' N, 100° 30' W), State of San Luis Potosi, Mexico. Described, Sonnenschmid, 1804, Mineralog. Beschreibung der vorzüglichsten Bergwerks-Revire in Mexico oder Neuspanien, n. 288.	1678	3200
53	1847	CHESTERVILLE —Ataxite. Siratic Group Ds Chester ville (34° 42' S, 81° 15' W), Chester County, South Carolina, U. S. A. Described, Shepard, 1849, Am. Jour. Science, Ser. 2, Vol. 7, pp. 449, 450.	139	139
54	1901	CHICHIMEGUILAS — Hacienda of Chichimeguilas, State of Zacatecas, Mexico. Main mass (6 kilos) in Museum of the Instituto Geologico, City of Mexico. Undescribed.	20	40

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WARD-COONLEY COLLECTION OF METEORITES.

No.	Found, Noticed or Described.	NAME OF THE METEORITE, with geographical index of locality.	Chief Piece.	Total Weight.
			Grammes.	
55	1881	CHILCAT —Octahedrite O Chilcoot Inlet (59° 0' N, 135° 15' W), Portage Bay, Southern Alaska. Mass in State Mining Bureau, San Francisco, California. Recorded, Hanks, 1888, First Annual Report of California State Mining Bureau, p. 125.	62	62
56	1873	CHULAFINNEE —Medium Octahedrite Om Chulafinnee (33° 35' N, 85° 42' W), Cleburne County, Alabama, U. S. A. Described, Hidden, 1880, Am. Jour. Science, Ser. 3, Vol. 19, pp. 370-371.	88	88
57	1852	CHUPADEROS —Fine Octahedrite Of Rancho de Chupaderos (27° 20' N, 105° 10' W), State of Chihuahua, Mexico. Described, Bartlett, 1854, Personal Narrative of Explor. in Texas, New Mexico, California, Sonora and Chihuahua. New York, 1854, Vol. 2, pp. 453-458.	5467	10832
58	1898	CINCINNATI —Ataxite. Siratic Group Ds Found in old collection, Cincinnati, U. S. A. Described, Cohen, 1898, Sitzungsber. Königl. Preuss. Acad. der Wissensch., Berlin, 1898.	1	1
59	1860	CLEVELAND —Medium Octahedrite Om (Lea Iron) (35° 8' N, 84° 53' W), Bradley County, Tennessee, U. S. A. Described, Shepard, 1866, Am. Jour. Science, Ser. 2, Vol. 43, pp. 251.	95	171
60	1837	COAHUILA —Normal Hexahedrite H Santa Rosa, Mexico. Sancha Estate, Mexico. Bonanza, Mexico. Bolson de Mapimi, Mexico. These four localities are in fact large areas covering together several thousand square miles in the State of Coahuila. Over these areas the iron masses exist in wide distribution, and with but partial gathering toward any distant centers. The Santa Rosa region alone, which is over one hundred miles in its longest diameter, has furnished many scores of iron fragments, ranging in weight from a few pounds to several hundredweight each. Described, Smith, 1855, Am. Jour. Science, Ser. 2, Vol. 17, pp. 160, 161.	1200 163 1253 3428	6044
61	1880	COLFAX —Octahedrite O Near Ellenborough (35° 18' N, 81° 45' W), Rutherford County, North Carolina, U. S. A. Described, Eakins, 1890, Am. Jour. Science, Ser. 3, Vol. 39, pp. 395, 396.	42	42

SIDERITES.

9

No.	Found, Noticed or Described.	NAME OF THE METEORITE, with geographical index of locality.	Chief Piece.	Total Weight.
			Grammes.	
62	1860	COOPERTOWN —Medium Octahedrite Om Coopertown (36° 25' N, 87° 0' W), Robertson County, Tennessee, U. S. A. Described, Smith, 1861, Am. Jour. Science, Ser. 2, Vol. 31, p. 266.....	68	119
63	1837	COSBY'S CREEK —Broad Octahedrite Og Cosby's Creek (35° 48' N, 83° 15' W), Cocke County, Eastern Tennessee, U. S. A. Described, Troost, 1840, Am. Jour. Science, Ser. 1, Vol. 38, pp. 250-254.....	2881	3044
64	1881	COSTILLA PEAK —Medium Octahedrite Om Costilla Peak (36° 50' N, 105° 13' W), Cimarron Range, Taos, New Mexico, U. S. A. Described, Hills, 1895, Proc. Colorado Scientific Soc., p. 1.....	6804	8544
65	1888	COWRA —Finest Octahedrite Off Thirty-five miles southwest of Carcoar (34° 15' S, 148° 58' E), Bathurst District, New South Wales, Australia. Described, Card, 1897, Records of the Geol. Surv. of N. S. W., Vol. 5, part 2, p. 51.....	25	32
66	1852	CRANBERRY PLAINS —Octahedrite O Poplar Hill (37° 13' N, 80° 47' W), Giles County, South Western Virginia, U. S. A. Recorded, Meunier, 1884, Meteorites, p. 116.....	5	5
67	1854	CRANBOURNE —Broad Octahedrite Og Cranbourne (38° 11' S, 145° 20' E), Mornington County, Victoria, Australia. Described, Haidinger, 1861, Wien. Akad. Ber., Vol. 43, Abth. 2, p. 583.....	2615	2638
68	1872	CUBA —Medium Octahedrite Om Middle portion of Island of Cuba, West Indies. Described, Solano y Eulate, 1872, Anales Soc. Esp. Hist. Nat., Vol. 1, p. 183.....	3	3
69	1889	CUERNAVACA —Fine Octahedrite Of Cuernavaca (18° 56' N, 99° 10' W), State of Morelos, Mexico. Described, H. A. Ward, 1902, Proc. Rochester Acad. of Science, Vol. 4, pp. 81, 82.....	1424	1764
70	1863	DAKOTA —Broadest Octahedrite Ogg South Dakota, U. S. A. Described, Jackson, 1863, Am. Jour. Science, Ser. 2, Vol. 36, pp. 259-261.....	305	305
71	1877	DALTON —Medium Octahedrite Om Twelve miles northeast of Dalton (34° 59' N, 84° 54' W), Whitfield County, Georgia, U. S. A. Described, Smith, 1877, Am. Jour. Science, Ser. 3, Vol. 14, p. 246.....	164	290

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WARD-COONLEY COLLECTION OF METEORITES.

No.	Found, Noticed or Described.	NAME OF THE METEORITE, with geographical index of locality.	Chief Piece.	Total Weight.
			Grammes.	
72	1846	DEEP SPRING —Ataxite, Babb's Mill Group Db Deep Springs Farm (36° 20' N, 79° 35' W), Rock- ingham County, North Carolina, U. S. A. Described, Venable, 1890, Am. Jour. Science, Ser. 3, Vol. 40, pp. 161, 162.....	671	738
73	1865	DELLYS —Medium Octahedrite Om Dellys (36° 55' N, 4° 0' E), Department of Alger, Algeria, North Africa. Described, Daubrée, 1866, Comptes Rendus, Vol. 62, p. 78.....	2	3
74	1856	DENTON COUNTY —Medium Octahedrite Om Denton County (33° 14' N, 97° 8' W), Texas, U. S. A. Described, Shumard, 1860, Trans. St. Louis Acad. of Science, Vol. 1, pp. 623-629.....	692	692
75	1780	DESCUBRIDORA —Medium Octahedrite Om Descubridora Range (23° 50' N, 101° 10' W), east of Catorce, District of Catorce, State of San Luis Potosi, Mexico. Described, Del Rio, 1804, Tablas Mineralógicas, p. 57, Mexico, 1804.....	28360	33340
	1885	CATORCE —Ten miles west of above Described, Kunz, 1887, Am. Jour. Science, Ser. 3, Vol. 33, pp. 233-235. Unquestionably belongs with Descubridora.....	41	41
76	1785	ELBOGEN —Medium Octahedrite Om Elbogen (50° 12' N, 12° 44' E), near Carlsbad, Northwestern Bohemia. Described, Neumann, 1812, Gills. Ann., Vol. 42, p. 197.....	41	93
77	1893	EL CAPITAN —Medium Octahedrite Om North slope of El Capitan Range (33° 30' N, 105° 30' W), Lincoln County, New Mexico, U. S. A. Described, Howell, 1895, Am. Jour. Science, Ser. 3, Vol. 50, pp. 253, 254.....	1611	2099
78	1889	EL TULE —Medium Octahedrite Om Rancho del Tule, Balleza (28° 30' N, 107° 40' W), 100 miles west of Chupaderos, State of Chihua- hua, Mexico. Described, Castillo, 1889, Cat. Descript. des Météorites du Mexique, p. 7, Paris, 1889.....	9	9
79	1854	EMMITSBURG —Medium Octahedrite Om Emmitsburg (39° 43' N, 77° 20' W), Frederick County, West Maryland, U. S. A. Described, Brezina, 1885, Wiener Sammlung, pp. 211, 234.....	21	21

SIDERITES.

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No.	Found, Noticed or Described.	NAME OF THE METEORITE, with geographical index of locality.	Chief Piece.	Total Weight.
			Grammes.	
80	1895	FORSYTH COUNTY —Ataxite. Nedagolla Group Dn Forsyth County (34° 12' N, 84° 9' W), North Carolina, U. S. A. Described, Brezina, 1895, Wiener Sammlung, p. 307	550	550
81	1882	FORT DUNCAN —Normal Hexahedrite H Fort Duncan (28° 35' N, 100° 24' W), Maverick County, Southern Texas, U. S. A. Described, Hidden, 1886, Am. Jour. Science, Ser. 3, Vol. 32, pp. 304-306	434	434
82	1856	FORT PIERRE —Medium Octahedrite Cm Twenty miles west of Fort Pierre (44° 23' N, 100° 43' W), Stanley County, South Dakota, U. S. A. Reported, Chouteau, 1858, Trans. St. Louis Acad. of Science, Vol. 1, p. 307	64	64
83	1890	FRANCEVILLE —Medium Octahedrite Om Franceville (38° 48' N, 104° 35' W), El Paso County, Colorado, U. S. A. Described, Preston, 1902, Proc. Rochester Acad. of Science, Vol. 4, pp. 75-78	992	992
84	1866	FRANKFORT —Medium Octahedrite Cm Eight miles southwest of Frankfort (38° 7' N, 84° 57' W), Franklin County, Kentucky, U. S. A. Described, Smith, 1870, Am. Jour. Science, Ser. 2, Vol. 49, p. 331	5	5
85	1884	GLORIETA —Medium Octahedrite Cm Near Canoncito (35° 22' N, 105° 50' W), Santa Fe County, New Mexico, U. S. A. Described, Kunz, 1885, Am. Jour. Science, Ser. 3, Vol. 30, p. 235	1056	4057
86	1883	GRAND RAPIDS —Fine Octahedrite Of Grand Rapids (42° 59' N, 85° 42' W), Walker Township, Kent County, Michigan, U. S. A. Described, Eastman, 1884, Am. Jour. Science, Ser. 3, Vol. 28, pp. 299, 300	1278	3941
87	1836	GREAT FISH RIVER —Fine Octahedrite Of Graaf Reinet (32° 22' S, 24° 33' E), Cape Colony, South Africa. Reported, Sir Alexander, 1838, Exp. of Discov. to Interior of Africa (Countries of Great Namaquas Boschmans, and Hill Damaras), Vol. 2, Appd., p. 272	11	11
88	1880	GREENBRIER —Broad Octahedrite Og Three miles north of White Sulphur Springs (37° 52' N, 80° 18' W), Greenbrier County, West Virginia, U. S. A. Described, Fletcher, 1887, Mineral. Mag., Vol. 7, pp. 183-186	18	18

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WARD-COONLEY COLLECTION OF METEORITES.

No.	Found, Noticed or Described.	NAME OF THE METEORITE, with geographical index of locality.	Chief Piece.	Total Weight.
			Grammes.	
89	1827	GROSSLEE —Finest Octahedrite Off Groslee (45° 45' N, 5° 43' E), near Belley, Départ- ment de l'Ain, France. From Damour Collection, Paris	2	2
90	1822	GUILFORD —Medium Octahedrite Om Guilford County (36° 4' N, 79° 48' W), North Carolina, U. S. A. Described, Olmsted, 1822, Am. Jour. Science, Ser. 1, Vol. 5, p. 262	2	4
91	1884	HAMMOND —Hammond Group Oh Hammond Township (44° 55' N, 92° 22' W), St. Croix County, Wisconsin, U. S. A. Described, Fisher, 1887, Am. Jour. Science, Ser. 3, Vol. 34, pp. 381-383	18	18
92	1888	HANIET EL BEGUEL —Medium Octahedrite Om Seventy miles northwest of Ouaregla (32° 20' N, 5° 0' E), Province of Alger, Algeria, North Africa. Described, Daubrée, 1889, Comptes Rendus, Vol. 108, pp. 930, 931	11	11
93	1890	HASSI JEKNA —Fine Octahedrite Of A few miles east of well of Hassi Jekna (28° 57' N, 0° 31' E), southwest of Province of Alger, Algeria, North Africa. Described, Meunier, 1892, Comptes Rendus, Vol. 115, pp. 531-533	1	1
94	1895	HAYDEN CREEK —Medium Octahedrite Om Hayden Creek (45° 0' N, 113° 45' W), Lemhi County, Idaho, U. S. A. Described, Hidden, 1900, Am. Jour. Science, Ser. 4, Vol. 9, p. 367	42	42
95	1882	HEX RIVER —Normal Hexahedrite H Hex River Mountains (34° 35' S, 19° 30' E), Worcester County, Cape Colony, South Africa. Described, Brezina, 1896, Ann. d. k. k. Naturh. Hofmus., Vol. 10, pp. 291, 349	248	248
96	1887	HOLLANDS STORE —Granular Hexahedrite Ha Hollands Store (34° 22' N, 85° 26' W), Chattooga County, Georgia, U. S. A. Described, Kunz, 1887, Am. Jour. Science, Ser. 3, Vol. 34, pp. 471, 472	248	248
97	1889	HOPPER —Octahedrite O Hopper (36° 35' N, 79° 45' W), Henry County, Virginia, U. S. A. Described, Venable, 1890, Am. Jour. Science, Ser. 3, Vol. 40, p. 162	7	7

SIDERITES.

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No.	Found, Noticed or Described.	NAME OF THE METEORITE, with geographical index of locality.	Chief Piece.	Total Weight.
			Grammes.	
98	1897	ILLINOIS GULCH —Ataxite. Nedagolla Group Dn Near Ophir (46° 39' N, 112° 32' W), Deer Lodge County, Montana, U. S. A. Described, Cohen, 1900, Sitzungsber. der Kön. Pr. Akad. der Wissensch., p. 1132, Berlin, 1900.	830	830
99	1887	INDIAN VALLEY —Granular Hexahedrite Ha Indian Valley Township (36° 58' N, 80° 39' W), Floyd County, Virginia, U. S. A. Described, Kunz, 1891, Mineralog. Mag., Vol. 9, N. 44, p. 394, London, 1891.	1906	1906
100	1871	IQUIQUE —Ataxite. Cape Group De Ten leagues east of Iquique (21° 45' S, 69° 45' W), Province of Tarapaca, Chili. Described, Raimond, 1873, Festschr. d. Ges. nat- forsch. Freunde, Berlin, 1873.	11	11
101	1898	IREDELL —Normal Hexahedrite H Six miles southwest of Iredell (31° 53' N, 97° 52' W), Bosque County, Central Texas, U. S. A. Described, Foote, 1899, Am. Jour. Science, Ser. 3, Vol. 8, p. 415, 416.	8	8
102	1880	IVANPAH —Medium Octahedrite Om Ivanpah (35° 30' N, 115° 28' W), San Bernardino County, California, U. S. A. Described, Shepard, 1880, Am. Jour. Science, Ser. 3, Vol. 19, pp. 381, 382.	221	221
103	1846	JACKSON COUNTY —Medium Octahedrite Om Jackson County (36° 52' N, 85° 37' W), North- west Tennessee, U. S. A. Described, Troost, 1846, Am. Jour. Science, Ser. 2, Vol. 2, p. 357.	10	10
104	1885	JAMESTOWN —Fine Octahedrite Of Jamestown (46° 42' N, 98° 34' W), Stutsman County, North Dakota, U. S. A. Described, Huntington, 1890, Proc. Amer. Acad. Arts and Sciences, Vol. 25, pp. 229-232.	583	583
105	1883	JENNYS CREEK —Broad Octahedrite Og Old fork of Jennys Creek (37° 53' N, 82° 22' W), Wayne County, West Virginia, U. S. A. Described, Kunz, 1885, Proc. Amer. Asso., Vol. 34, p. 246.	7	7
106	1858	JOEL'S IRON —Medium Octahedrite Om Unspecified part of Desert of Atacama, Chili. Described, Brezina, 1885, Wiener Sammlung, pp. 155, 213, 214, 234.	11	27

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WARD-COONLEY COLLECTION OF METEORITES.

No.	Found, Noticed or Described.	NAME OF THE METEORITE, with geographical index of locality.	Chief Piece.	Total Weight.
			Grammes.	
107	1884	JOE WRIGHT —Medium Octahedrite Om Seven miles east of Batesville (35° 43' N, 91° 27' W), Independence County, Arkansas, U. S. A. Described, Hidden, 1886, School of Mines Quar- terly, Vol. 7, No. 2, Jan., 1886.	266	440
108	1866	JUNCAL —Medium Octahedrite Om Juncal (26° 10' S, 69° 3' W), Desert of Atacama, Chili. Described, Daubrée, 1868, Comptes Rendus, Vol. 66, pp. 568-571.	50	50
109	1887	KENDALL COUNTY —Brecciated Hexahedrite Hb Kendall County (29° 24' N, 98° 30' W), Central Texas, U. S. A. Described, Brezina, 1887, Neue Meteoriten III Ann. Hof.-Mus., Vol. 2, p. 115.	410	696
110	1889	KENTON COUNTY —Medium Octahedrite Om Eight miles south from Independence (38° 40' N, 84° 29' W), Kenton County, Kentucky, U. S. A. Described, Preston, 1892, Am. Jour. Science, Ser. 3, Vol. 44, pp. 163, 164.	9545	17930
111	1898	KODAIKANAL —Brecciated Octahedrite Obk Palni Hills (9° 55' N, 78° 0' E), Madura District, Madras Presidency, India. Recorded, Berwerth, 1903, Verz. der Meteoriten im K.K. Naturhistorischen Hof-Museum, p. 64.	128	128
112	1862	KOKOMO —Ataxite. Cape Group De Seven miles southeast of Kokomo (40° 34' N, 86° 2' W), Howard County, Indiana, U. S. A. Described, Cox, 1873, Am. Jour. Science, Ser. 3, Vol. 5, pp. 155, 156.	40	63
113	1887	KOKSTAD —Medium Octahedrite Om Kokstad (30° 28' S, 29° 27' E), East Griqualand, Cape Colony, South Africa. Described, Brezina, 1887, Verh. der. K. K. Geol. Reichsanstalt, p. 289.	270	270
114	1828	LA CAILLE —Medium Octahedrite Om South of St. Auban (43° 47' N, 6° 43' E), Departement des Alpes Maritimes, France. Described, Brard, 1828, Minéralogie, under Article "Fer".	66	108
115	1860	LA GRANGE —Fine Octahedrite Of La Grange (38° 37' N, 85° 25' W), Oldham County, Kentucky, U. S. A. Described, Smith, 1861, Am. Jour. Science, Ser. 2, Vol. 31, p. 151.	33	33

SIDERITES.

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No.	Found, Noticed or Described.	NAME OF THE METEORITE, with geographical index of locality.	Chief Piece.	Total Weight.
			Grammes.	
116	1888	LA PRIMITIVA —Ataxite. Nedagolla Group De Salitre (20° 18' S, 69° 35' W), Tarapaca Desert, 40 miles east of Iquique, Chili. Described, Howell, 1890, Proc. Rochester Acad. of Science, Vol. 1, p. 100.....	30	30
117	1557	LAURENS —Finest Octahedrite Off Laurens Court-house (34° 30' N, 82° 14' W), Laurens County, South Carolina, U. S. A. Described, Hidden, 1886, School of Mines (Colum- bia College) Quarterly, No. 1, Oct. 1886.....	336 41	680 81
118	1814	LENARTO —Medium Octahedrite Om Near Bartfeld (49° 18' N, 21° 41' E), Saroser Dis- trict, Galicia, Austria. Described, Tehel, 1815, Gilb. Ann., Vol. 49, pp. 181, 182.....	336	680
119	1880	LEXINGTON COUNTY —Broad Octahedrite Og Lexington County (33° 57' N, 81° 18' W), South Carolina, U. S. A. Described, Shepard, 1881, Am. Jour. Science, Ser. 3, Vol. 21, pp. 117-119.....	87	108
120	1879	LICK CREEK —Normal Hexahedrite H Lick Creek (35° 45' N, 80° 12' W), Davidson County, North Carolina, U. S. A. Described, Hidden, 1880, Am. Jour. Science, Ser. 3, Vol. 20, pp. 323-326.....	25	40
121	1834	LIME CREEK —Normal Hexahedrite H Near Claiborne (31° 34' N, 87° 30' W), Monroe County, Alabama, U. S. A. Described, Jackson, 1838, Am. Jour. Science, Ser. 1, Vol. 34, pp. 332-337.....	94	109
122	1882	LINNVILLE —Ataxite. Babb's Mill Group Db Linnville Mountain (35° 40' N, 81° 35' W), Clai- borne, Burke County, North Carolina, U. S. A. Described, Kunz, 1888, Am. Jour. Science, Ser. 3, Vol. 34, pp. 275-277.....	28	28
123	1853	LION RIVER —Fine Octahedrite Of Near Bethany (27° 0' S, 17° 30' E), Great Namaqua Land, South Africa. Described, Shepard, 1853, Am. Jour. Science, Ser. 2, Vol. 15, pp. 1-4.....	215	261
124	1857	LOCUST GROVE —Ataxite. Siratik Group Ds Locust Grove (33° 20' N, 84° 8' W), Henry County, Georgia, U. S. A. Described, Brezina, 1895, Wiener Sammlung, 1895, pp. 302, 353.....	227	227

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WARD-COONLEY COLLECTION OF METEORITES.

No.	Found, Noticed or Described.	NAME OF THE METEORITE, with geographical index of locality.	Chief Piece.	Total Weight.
			Grammes.	
125	1888	LONACONING —Broad Octahedrite Og Twelve miles south of Lonaconing (39° 28' N, 79° 2' W), Allegheny County, Western Mary- land, U. S. A. Described, Foote, 1892, Am. Jour. Science, Ser. 3, Vol. 43, p. 64.....	38	38
126	1868	LOSTTOWN —Medium Octahedrite Om Losttown (34° 10' N, 84° 32' W), Cherokee County, Georgia, U. S. A. Described, Shepard, 1864, Am. Jour. Science, Ser. 2, Vol. 46, pp. 257, 258.....	76	76
127	1885	LUCKY HILL —Medium Octahedrite Om Lucky Hill (18° 8' N, 77° 50' W), St. Elisabeth, Jamaica, W. I. Recorded, v. Hauer, 1886, Ann. Hof. Mus., Bd. 2, p. 39.....	27	49
128	1896	LUIS LOPEZ —Medium Octahedrite Om Five miles southwest of Socorro (34° 0' N, 107° 0' W), Socorro County, New Mexico, U. S. A. Described, Preston, 1900, Am. Jour. Science, Ser. 4, Vol. 9, pp. 283-285.....	3124	3124
129	1854	MADOC —Fine Octahedrite Of Madoc Township (44° 29' N, 77° 30' W), Hastings County, Ontario, Canada. Described, Hunt, 1855, Am. Jour. Science, Ser. 2, Vol. 19, p. 417.....	8	8
130	1840	MAGURA —Broad Octahedrite Og (Arva) (49° 20' N, 19° 29' E), Arva District, Northern Hungary. Described, Haidinger, 1844, Wiener Zeitung. 17th April, 1844.....	845	1366
131	1876	MANTOS BLANCOS —Fine Octahedrite Of Mount Hicks (23° 23' S, 70° 5' W), Atacama Desert, Chili. Described, Fletcher, 1889, Mineral. Mag., Vol. 8, pp. 224, 230, 257, 258.....	8	8
132	1860	MARSHALL COUNTY —Medium Octahedrite Om Marshall County (36° 50' N, 88° 17' W), Kentucky U. S. A. Described, Smith, 1860, Am. Jour. Science, Ser. 2, Vol. 30, p. 240.....	17	35
133	1898	MART —Finest Octahedrite Off Mart (31° 10' N, 96° 45' W), McLennan County, Central Texas, U. S. A. Described, Merrill and Stokes, 1900, Proc. Wash. Acad. of Sciences, Vol. 2, pp. 51-56.....	1132	1132

SIDERITES.

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No.	Found, Noticed or Described.	NAME OF THE METEORITE, with geographical index of locality.	Chief Piece.	Total Weight.
			Grammes.	
134	1885	MATATIELA —Medium Octahedrite Om Fifteen leagues west-northwest from Kokstad (30° 20' S, 28° 40' E), East Griqualand, Cape Colony, South Africa. Described, Cohen, 1900, <i>Annals South African Museum</i> , Vol. 2, pp. 9-19.	27	27
135	1884	MERCEDITAS —Medium Octahedrite Om Ten leagues east of Chanaral (26° 25' S, 70° 0' W), Northern Chili. Described, Howell, 1890, <i>Proc. Rochester Acad. of Science</i> , Vol. 1, p. 99.	729	729
136	1804	MISTECA —Medium Octahedrite Om Misteca Alta (16° 45' N, 97° 4' W), State of Oaxaca, Mexico. Described, Del Rio, 1804, <i>Tablas Mineralog.</i> , p. 57.	260	260
137	1899	MOCTEZUMA —Medium Octahedrite Om Moctezuma (28° 49' N, 109° 40' W), State of Sonora, Mexico. Main mass in the collection of the School of Mines, City of Mexico. Undescribed.	364	364
138	1893	MOORANOPPIN —Broadest Octahedrite Ogg Fifty miles west of Coolgardie (32° 0' S, 119° 25' E), Lansdowne County, West Australia. Described, H. A. Ward, 1898, <i>Am. Jour. Science</i> , Ser. 4, Vol. 5, p. 140.	74	74
139	1600	MORITO —Medium Octahedrite Om Hacienda of San Gregorio, State of Chihuahua, Mexico. Recorded, Luis Cabrera de Cordova, 1619, <i>His- toria de Felipe Segundo, Rey de España</i> , Lib. 13, p. 1163, Madrid.	14	14
140	1892	MORRADAL —Ataxite. Babb's Mill Group Db Morradal, near Grjotlien (61° 50' N, 8° 10' E), Skiaker District, Norway. Described, Cohen, 1898, <i>Vidensk. Skrifter. I. Mathem. Naturv. Klasse</i> , No. 7, Christiania, Norway.	5	5
141	1887	MOUNT JOY —Broadest Octahedrite Ogg Five miles southeast of Gettysburg (39° 44' N, 77° 20' W), Adams County, Pennsylvania, U. S. A. Described, Howell, 1892, <i>Am. Jour. Science</i> , Ser. 4, Vol. 44, pp. 415, 416.	15000	29814
142	1892	MOUNT STIRLING —Broad Octahedrite Og Mount Stirling (31° 58' S, 117° 55' E), 60 miles east of York, West Australia. Recorded, Etheridge, Jr., 1897, <i>Records Austra- lian Museum</i> , Vol. 3, No. 3, p. 58.	952	952

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WARD-COONLEY COLLECTION OF METEORITES.

No.	Found, Noticed or Described.	NAME OF THE METEORITE, with geographical index of locality.	Chief Piece.	Total Weight.
			Grammes.	
143	1899	MUKEROP —Finest Octahedrite Off Near Bethany (25° 20' S, 18° 25' E), District of Gibeon, Great Namaqualand, Southwest Africa. Described, Brezina and Cohen, 1902, <i>Jahreshfte des Ver. für Vaterl. Naturk. in Württemberg</i> , Jahrg., 1902, Bd. 58, S. 292-302.	22560	42560
144	1897	MUNGINDI —Finest Octahedrite Off Three miles north of Mungindi (29° 0' S, 149° 0' E), Southern Queensland, Australia. Described, Card, 1897, <i>Rec. Geol. Surv. N. S. Wales</i> , Vol. 3, p. 121.	1385	1385
145	1847	MURFREESBORO —Medium Octahedrite Om Murfreesboro (35° 50' N, 86° 20' W), Rutherford County, Central Tennessee, U. S. A. Described, Troost, 1848, <i>Am. Jour. Science</i> , Ser. 2, Vol. 5, pp. 351, 352.	46	65
146	1839	MURPHY —Normal Hexahedrite H Murphy (35° 6' N, 84° 2' W), Cherokee County, North Carolina, U. S. A. Described, H. L. Ward, 1899, <i>Am. Jour. Science</i> , Ser. 4, Vol. 8, pp. 225, 226.	303	567
147	1890	NAGY-VAZSONY —Medium Octahedrite Om Near Vörös-Bereny (46° 59' N, 17° 41' E), Vesz- primer Comitát, Western Hungary. Described, v. Hauer, 1891, <i>Ann. Hof-Mus.</i> , Vol. 6, p. 54.	36	36
148	1854	NARRABURRA CREEK —Broadest Octahedrite Ogg Twelve miles east of Temora (34° 10' S, 147° 43' E), New South Wales, Australia. Described, Russell, 1890, <i>Jour. Roy. Soc. of N. S. Wales</i> , Vol. 22, p. 81.	10	10
149	1863	NEJED —Medium Octahedrite Om Wadee Banee Khaled (24° 15' N, 46° 25' E), Dis- trict of Nejed, Central Arabia. Described, Fletcher, 1887, <i>Mineralog. Mag.</i> , Vol. 7, pp. 179-182.	50204	50233
150	1860	NELSON COUNTY —Broadest Octahedrite Ogg Nelson County (37° 48' N, 85° 27' W), Kentucky, U. S. A. Described, Smith, 1860, <i>Am. Jour. Science</i> , Ser. 2, Vol. 30, p. 240.	284	435
151	1872	NENNTMANSDORF —Normal Hexahedrite H Neuntmsdorf (50° 57' N, 13° 57' E), 11 miles southeast of Pirna, Saxony. Described, Geinitz, 1872, <i>Im Dresdener Journal vom 31 December, 1872 (Nr. 303)</i> .	22	22

SIDERITES.

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No.	Found, Noticed or Described.	NAME OF THE METEORITE, with geographical index of locality.	Chief Piece.	Total Weight.
			Grammes.	
152	1879	NIAGARA —Broad Octahedrite Om Niagara (47° 58' N, 97° 52' W), Grand Forks County, North Dakota, U. S. A. Described, Preston, 1902, Jour. of Geol., Vol. 10, No. 5, Chicago, 1902.	24	24
153	1876	NOCHTUISK —Broad Octahedrite Og Nochtuisk (59° 50' N, 116° 20' E), Government of Yakutsk, East Siberia.	1	1
154	1895	NOCOLECHE —Medium Octahedrite Om Near Wanaaring (29° 35' S, 144° 10' E), forty miles northwest of Bourke, New South Wales. Described, Cooksey, 1897, Records Austr. Mus., Vol. 3, No. 3, pp. 51-54.	1123	1123
155	1863	OBERNKIRCHEN —Fine Octahedrite Of Bückeberg (52° 16' N, 9° 8' E), Westphalia, Cen- tral Prussia. Described, Wöhler and Wieke, 1863, Gött. Ge. Anz. (Nachr.), 1863, pp. 364-367.	124	185
156	Prehistoric	OCTIBBEHA —Ataxite. Babb's Mill Group Ds Octibbeha County (33° 28' N, 88° 51' W), Missis- sippi, U. S. A. Described, Taylor, 1857, Proc. Phila. Acad. Nat. Sciences, April, 1857.	1	1
157	1856	ORANGE RIVER —Medium Octahedrite Om Gariab, Orange River, Southwest Africa. Described, Shepard, 1856, Am. Jour. Science, Ser. 3, Vol. 21, pp. 213-216.	74	74
158	1893	OROVILLE —Medium Octahedrite Om Oroville (39° 18' N, 122° 38' W), Butte County, Northern California, U. S. A. Main mass in Museum of the Academy of Sciences, San Francisco, California. Undescribed.	315	579
159	1895	OSCURO MOUNTAINS —Broad Octahedrite Og Oscuro Mountains (33° 45' N, 107° 20' W), Socorro County, New Mexico, U. S. A. Described, Hills, 1897, Proc. of Colorado Scientific Soc., 1897, pp. 1-4.	640	640
160	1887	PAN DE AZUCAR —Broad Octahedrite Og Sixty-seven miles inland from Pan de Azucar (26° 0' S, 69° 2' W), Desert of Tarapaca, Chili. Recorded, Fletcher, 1896, Introd. to Study of Meteorites, p. 69, London, 1896.	210	210
161	1903	PERSIMMON CREEK —Medium Octahedrite Om Persimmon Creek (35° 6' N, 84° 7' W), Cherokee County, North Carolina, U. S. A. Mass in U. S. National Museum. To be described	132	132

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WARD-COONLEY COLLECTION OF METEORITES.

No.	Found, Noticed or Described.	NAME OF THE METEORITE, with geographical index of locality.	Chief Piece.	Total Weight.
			Grammes.	
162	1841	PETROPAVLOVSK —Medium Octahedrite Om Petropavlovsk (55° 10' N, 69° 10' E), on Mass River, Government of Akmolinsk, Western Siberia. Described, Erman, 1841, Arch. für wissensch. Kunde v. Russland, Vol. 1, pp. 314-320.	46	46
163	1850	PITTSBURG —Broadest Octahedrite Ogg Miller's Run (40° 27' N, 79° 57' W), Allegheny County, Pennsylvania, U. S. A. Described, Silliman, 1850, Proc. Amer. Asso. for 1850, Vol. 4, p. 37.	9	9
164	1893	PLYMOUTH —Medium Octahedrite Om Plymouth (41° 20' N, 86° 18' W), Marshall County, Eastern Indiana, U. S. A. Described, H. A. Ward, 1895, Am. Jour. Science, Ser. 3, Vol. 49, pp. 53-55.	626	1090
165	1797	PRAMBANAN —Fine Octahedrite Of Prambanan (7° 30' N, 109° 10' E), Soerakarta Residency, Central Java. Described, v. Baumhauer, 1866, Arch. Neerl., Bd. I, pp. 465-467.	16	16
166	1885	PUQUIOS —Medium Octahedrite Om Puquios (27° 16' S, 69° 48' W), 8 miles east of Copiapo, Chili. Described, Howell, 1890, Am. Jour. Science, Ser. 3, Vol. 40, pp. 224-226.	71	132
167	1834	PUTNAM COUNTY —Fine Octahedrite Of Putnam County (33° 16' N, 83° 25' W), Georgia, U. S. A. Described, Willet, 1854, Am. Jour. Science, Ser. 2, Vol. 17, pp. 331, 332.	23	23
168	1894	QUEENSLAND —Broad Octahedrite Og Uncertain locality, South Queensland, Australia. Mass in Public Museum, Brisbane, Queensland. Undescribed.	72	72
169	1886	RAFRUTI —Ataxite. Nedagolla Group Dn Rafuti (47° 3' N, 7° 48' E), Emmenthal, Canton of Berne, Switzerland. Described, E. von Fellenberg, 1900, Centralbl. für Miner. Geol. u. Palæont., pp. 152-158.	7	7
170	1804	RANCHO DE LA PILA —Medium Octahedrite Om Pila (23° 15' N, 104° 0' W), nine leagues east of Durango, State of Durango, Mexico. Described, Del Rio, 1804, Tablas Mineralógicas, Mexico, 1804, p. 57.	1657	2042
171	1810	RASGATA —Ataxite. Siratik Group Ds Rasgata (5° 0' N, 74° 1' W), Province of Boyaca, Colombia, South America. Described, Mariano de Rivero and Boussingault, 1824, Ann. Chim. Phys., Vol. 25, pp. 438-443.	112	112

SIDERITES.

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No.	Found, Noticed or Described.	NAME OF THE METEORITE, with geographical index of locality.	Chief Piece.	Total Weight.
			Grammes.	
172	1808	RED RIVER —Medium Octahedrite Oh Cross Timbers, Head-waters of Red River, Texas. Described, Bruce, 1810, Mineralog. Jour., Vol. 1, p. 124.....	32	84
173	1895	REED CITY —Octahedrite. Hammond group Om Reed City (43° 53' N, 85° 32' W), Osceola County, Michigan, U. S. A. Described, Preston, 1903, Proc. Rochester Acad. Science, Vol. 4, pp. 89-91.....	1657	1657
174	1901	RHINE VALLEY —Medium Octahedrite Om (Rhine Villa?), South Australia. Recorded, Berwerth, 1903, Verzeichniss der Meteoriten im K. K. Nat. Hof-Museum, p. 85, Wien, 1903.....	155	155
175	1850	RODEO —Medium Octahedrite Om Rodeo (25° 20' N, 104° 40' W), State of Durango, Mexico. Main mass in Field Columbian Museum, Chicago, Ill., U. S. A. To be described.....	1500	1500
176	1892	ROEBOURNE —Medium Octahedrite Om Twenty miles from Hammersley Range (22° 20' S, 118° 0' E), Northwest Australia. Described, H. A. Ward, 1898, Am. Jour. Science, Ser. 4, Vol. 5, pp. 135, 136.....	20734	34548
177	1897	ROSARIO —Broad Octahedrite Og Rosario (14° 38' N, 88° 42' W), Northern Hon- duras. Main mass in the Bement Collection. Undescribed.	461	461
178	1844	RUFF'S MOUNTAIN —Medium Octahedrite Om Ruff's Mountain (34° 15' N, 81° 21' W), Lexington County, South Carolina, U. S. A. Described, Shepard, 1850, Am. Jour. Science, Ser. 2, Vol. 10, p. 128.....	118	225
179	1863	RUSSEL GULCH —Fine Octahedrite Of Russel Gulch (39° 47' N, 105° 31' W), Gilpin County, Colorado, U. S. A. Described, Smith, 1866, Am. Jour. Science, Ser. 2, Vol. 42, pp. 218, 219.....	277	277
180	1896	SACRAMENTO MOUNTAINS —Medium Octahe- drite Om Sacramento Mountains (32° 32' N, 105° 20' W), Lincoln County, New Mexico, U. S. A. Described, Foote, 1897, Am. Jour. Science, Ser. 4, Vol. 3, pp. 65, 66.....	6115	6115

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WARD-COONLEY COLLECTION OF METEORITES.

No.	Found, Noticed or Described.	NAME OF THE METEORITE, with geographical index of locality.	Chief Piece.	Total Weight.
			Grammes.	
181	1863	SAINT FRANCOIS COUNTY Broad Octahedrite Og Saint Francois County (37° 55' N, 90° 36' W), Southeastern Missouri, U. S. A. Described, Shepard, 1869, Am. Jour. Science, Ser. 2, Vol. 47, pp. 233, 234.....	753	753
182	1888	SAINT GENEVIEVE —Fine Octahedrite Of Saint Genevieve County (37° 47' N, 90° 22' W), Southeastern Missouri, U. S. A. Described, H. A. Ward, 1901, Proc. Rochester Acad. Science, Vol. 4, pp. 65, 66.....	95469	106056
183	1850	SALT RIVER —Finest Octahedrite Of Twenty miles south of Louisville (37° 56' N, 85° 54' W), Bullitt County, Kentucky, U. S. A. Described, Silliman, Jr., 1850, Proc. Am. Assoc. Science, Vol. 4, pp. 36, 37.....	11	11
184	1897	SAN ANGELO —Medium Octahedrite Om San Angelo (31° 20' N, 100° 20' W), Tom Green County, Central Texas, U. S. A. Described, Preston, 1898, Am. Jour. Science, Ser. 4, Vol. 5, pp. 269-272.....	2638	4516
185	1896	SAN CRISTOBAL —Ataxite. Linnville Group De San Cristobal (23° 0' S, 69° 0' W), Province of Atacama, Chili. Described, Cohen, 1898, Sitzungsber. K. Pr. Akad. der Wissensch, pp. 608, 609.....	114	114
186	1868	SAN FRANCISCO DEL MEZQUITAL —Ataxite. Siatic Group Is (Mezquital) (23° 40' N, 104° 28' W), State of Durango, Mexico. Described, Daubrée, 1868, Comptes Rendus, Vol. 66, pp. 573, 574.....	12	12
187	1872	SANTA APOLONIA —Octahedrite O Near Pueblo of Nativitas (19° 14' N, 98° 15' W), State of Tlaxcala, Mexico. Original mass (1050 kilos) in Museum of the Instituto Geologico, City of Mexico. Undescribed	212	212
188	1824	SANTA ROSA —Decreciated Octahedrite. Zacatecas Group Olz Hill of Tocavita (5° 49' N, 72° 56' E), near Santa Rosa, Province of Boyaca, Columbia, South America. Described, Mariano de Rivero et Boussingault, 1824, Ann. Chim. Phys., Vol. 15, pp. 438-443...	96	96
189	1883	SAO JULIAO DE MOREIRA —Broadest Octahe- drite Ogg Near Ponte de Lima (41° 30' N, 8° 20' W), Prov- ince of Minho, Portugal. Described, Ben-Saude, 1888, Comm. da commiss. dos Trab. Geol. de Portugal, Vol. 2, pp. 14-16...	968	968

SIDERITES.

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No.	Found, Noticed or Described.	NAME OF THE METEORITE, with geographical index of locality.	Chief Piece.	Total Weight.
			Grammes.	
190	1854	SAREPTA —Broad Octahedrite Og Thirty miles north of Sarepta (48° 28' N, 44° 29' E), Government of Saratov, Eastern Russia. Described, Auerbach, 1854, Bull. Soc. Imp. des Naturalistes de Moscou, 1854, Nr. 4, p. 504....	286	322
191	1850	SCHWETZ —Medium Octahedrite Om Near Culm (53° 24' N, 18° 26' E), Eastern Prussia. Described, Rose, 1851, Mon. Ber. Berlin Akad., pp. 104-106.....	91	144
192	1867	SCOTTSTOWN —Hexahedrite H Near Scottsville (36° 45' N, 86° 10' W), Allen County, Kentucky, U. S. A. Described, Whitfield, 1887, Am. Jour. Science, Ser. 3, Vol. 33, pp. 500, 501.....	1153	1153
193	1847	SEELASGEN —Broadest Octahedrite Ogg Seelasgen (52° 14' N, 15° 23' E), Province of Brandenburg, Central Prussia. Described, Göppert, 1847, Verh. Berlin. Akad., 1847, p. 488.....	623	992
194	1850	SENECA FALLS —Medium Octahedrite Om Seneca Falls (42° 57' N, 76° 58' W), near Waterloo, Seneca County, New York, U. S. A. Described, Shepard, 1851, Am. Jour. Science, Ser. 2, Vol. 11, pp. 39, 40.....	104	104
195	1716	SENEGAL —Ataxite. Siratik Group Ds Bambuk (about 14° 0' N, 11° 0' W), Upper Senegal River, West Africa. Described, Compagnon, 1748, Schwabe's Allgemeine Historie der Reisen zu Wasser und Lande, Leipsig, 1748, Vol. 2, Book 5, Chap. 13, p. 510..	17	27
196	1875	SERRANIA DE VARAS —Fine Octahedrite Of Varas (24° 42' S, 69° 10' W), Desert of Atacama, Chili. Described, Fletcher, 1889, Mineralog. Mag., Vol. 8, p. 258.....	5	8
197	1869	SHINGLE SPRINGS —Ataxite. Shingle Springs Group Dsh Shingle Springs (38° 43' N, 120° 53' W), El Dorado County, Northern California, U. S. A. Described, Shepard, 1872, Am. Jour. Science, Ser. 3, Vol. 3, p. 438.....	50	50
198	1784	SIERRA BLANCA —Broad Octahedrite Og Near Huejuquilla (about 27° 8' N, 105° 22' W), Canton of Jimenez, State of Chihuahua, Mexico. Recorded, 1784, Gazeta de Mexico, año de 1784 y 1785, Tome 1, pp. 383, 384.....	2	2

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WARD-COONLEY COLLECTION OF METEORITES.

No.	Found, Noticed or Described.	NAME OF THE METEORITE, with geographical index of locality.	Chief Piece.	Total Weight.
			Grammes.	
199	1887	SILVER CROWN —Broad Octahedrite Og Twenty-one miles west of Cheyenne (41° 5' N, 105° 12' W), Laramie County, Wyoming, U. S. A. Described, Kunz, 1888, Am. Jour. Science, Ser. 3, Vol. 36, pp. 276, 277.....	75	75
200	1839	SMITHLAND —Ataxite. Babb's Mill Group Db Smithland (37° 18' N, 88° 17' W), Livingston County, Western Kentucky, U. S. A. Described, Troost, 1846, Am. Jour. Science, Ser. 2, Vol. 2, pp. 357, 358.....	49	49
201	1863	SMITH'S MOUNTAIN —Fine Octahedrite Of Two miles north of Madison (36° 32' N, 79° 58' W), Rockingham County, North Carolina, U. S. A. Described, Tschermak, 1872, Meteoriten, M. M., Vol. 2, p. 172.....	214	214
202	1840	SMITHVILLE —Broad Octahedrite Og (Caryfort) (35° 55' N, 85° 46' W), De Kalb County, Tennessee, U. S. A. Described, Brezina, 1895, Wiener Sammlung, pp. 256, 256.....	2140	4038
203	1873	SSYROMOLOTOV —Medium Octahedrite Om Angara (59° 0' N, 99° 0' E), Government of Yeniseisk, Eastern Siberia. Described, Göbel, 1874, Bull. Ac. Imp. des Sc. de St. Petersb., Vol. 19, pp. 544-554.....	22	27
204	1858	STAUNTON —Medium Octahedrite Om Staunton (38° 14' N, 79° 1' W), Augusta County, Virginia, U. S. A. Described, Mallet, 1871, Am. Jour. Science, Ser. 3, Vol. 2, pp. 10-15.....	1772	3626
205	1890	SUMMIT —Granular Hexahedrite Ha Near Summit (34° 13' N, 86° 30' W), Blount County, Alabama, U. S. A. Described, Kunz, 1890, Am. Jour. Science, Ser. 3, Vol. 40, pp. 322, 323.....	39	39
206	1899	SURPRISE SPRINGS —Medium Octahedrite Om Surprise Springs (34° 12' N, 115° 54' W), San Bernardino County, California, U. S. A. Described, Rust, 1899, Overland Monthly, pp. 11, 12.....	1410	1410
207	1891	TAJGHA —Medium Octahedrite Om Tajgha (56° 48' N, 94° 0' E), near Krasnojarsk, Government of Yeniseisk, Siberia. Mentioned, Cohen, 1894, Meteoriten-kunde, p. 93.	17	17
208	1880?	TANOGAMI —Medium Octahedrite Om Mount Tanogami (about 35° 20' N, 136° 40' E), Kurifoto District, Province of Omi, Japan. Undescribed.	20	30

SIDERITES.

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No.	Found, Noticed or Described.	NAME OF THE METEORITE, with geographical index of locality.	Chief Piece.	Total Weight.
			Grammes.	
209	1853	TAZEWELL —Finest Octahedrite Off Tazewell (36° 27' N, 83° 48' W), ten miles west of Claiborne County, East Tennessee, U. S. A. Described, Smith, 1854, Am. Jour. Science, Ser. 2, Vol. 17, p. 131.	197	279
210	1784	TENNANT'S IRON —Broad Octahedrite Og From Mineral Collection of the Agricultural Academy of Petrowskoje-Rasumowskoje, near Moscow, Russia. (From old collection of Ten- nant, London.) Undescribed	4	4
211	1903	TEOCALTICHE —Octahedrite O Canton of Teocaltiche (21° 25' N, 102° 27' W), State of Jalisco, Mexico. Original mass (weight 10 kilos) in Museum of the Instituto Geologico, City of Mexico.	40	40
212	1891	TERNERA —Ataxite. Cape Group De Sierra de la Ternera, Atacama, Chile. Described, Kunz u. Weinschenk, 1891, M. P. M., Bd. 12, pp. 184, 185.	1	1
213	1886	THUNDA —Medium Octahedrite Om Windorah (25° 25' S, 142° 40' E), Diamantina District, Queensland, Australia. Described, Liversidge, 1886, Jour. and Proc. Roy. Soc. of New South Wales, Vol. 20, pp. 73, 285	1000	1181
214	1895	THURLOW —Fine Octahedrite Of Thurlow (44° 22' N, 77° 20' W), Hastings County, Ontario, Canada. Recorded, Dana, 1897, Am. Jour. Science, Ser. 4, Vol. 4, p. 325.	209	209
215	1903	TLACOTEPEC —Octahedrite O Tlacotepec (18° 45' N, 97° 39' W), District of Tecamachaleco, State of Puebla, Mexico. Mass (weighing 24 kilos) in Museum of Instituto Geologico, City of Mexico.	40	40
216	1784	TOLUCA —Medium Octahedrite Om Xiquipilco (19° 20' N, 99° 45' W), Toluca Valley, State of Mexico, Mexico. Described, Del Rio, 1804, Tablas Mineralogicas, 1804, p. 57.	19247	69295
217	1878	TOMBIGBEE RIVER —Granular Hexahedrite Ha Tombigbee River (32° 13' N, 88° 10' W), Choctaw County, Alabama, U. S. A. Described, Foote, 1899, Am. Jour. Science, Ser. 4, Vol. 8, pp. 153-156.	530	530
218	1886	TONGANOXIE —Medium Octahedrite Om Tonganoxie (39° 8' N, 95° 7' W), Leavenworth County, Kansas, U. S. A. Described, Snow, 1891, Science, Jan. 2	359	709

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WARD-COONLEY COLLECTION OF METEORITES.

No.	Found, Noticed or Described.	NAME OF THE METEORITE, with geographical index of locality.	Chief Piece.	Total Weight.
			Grammes.	
219	1891	TOUBIL —Medium Octahedrite On Two hundred and fifty miles north of Krasnojarsk (56° 0' N, 91° 0' E), District of Atchinsk, Government of Jeniseisk, Siberia. Described, Khlaponin, 1898, Institute des Mines, St. Petersburg, Russia.	330	330
220	1858	TRENTON —Medium Octahedrite On Trenton (43° 20' N, 88° 12' W), thirty miles north- west of Milwaukee, Wisconsin, U. S. A. Described, Dörfinger, 1868, Smithsonian, Rep. for 1869, pp. 417-419.	3315	3561
221	1851	TUCSON —Ataxite. Muchachos Group Dm Muchachos Ains—Signet Mass Carleton—Tucson Mass. State of Sonora, Mexico. Later transferred to Tucson, Arizona. Described by Dr. John L. Le Conte, 1852. Notice of meteoric iron in the Mexican Province of Sonora, American Journal of Science, Ser. 2, Vol. 13, pp. 289, 290. Iron in Valle de los Muchachos was reported by Mexican writers in 1660.	1660 853 27	2540
222	1846	TULA —Brecciated Octahedrite. Netschaev Group Obn Netschaev (54° 35' N, 37° 34' E), Government of Tula, Central Russia. Described, Auerbach, 1858, Bull. de la Soc. Impér. des Naturalistes, Moscou, Vol. 31, pp. 331, 332.	136	166
223	1853	UNION COUNTY —Broadest Octahedrite Ogg Union County (34° 56' N, 83° 58' W), Northern Georgia, U. S. A. Described, Shepard, 1854, Am. Jour. Science, Ser. 2, Vol. 17, p. 328.	67	67
224	1894	UTE PASS —Broadest Octahedrite Ogg Ute Pass (39° 48' N, 106° 10' W), Summit County, Colorado, U. S. A. Undescribed.	120	120
225	1871	VICTORIA —Medium Octahedrite On Saskatchewan (53° 0' N, 111° 15' W), on Iron Creek, northwest of Edmonton, British America. Described, Coleman, 1886, Proc. and Trans. Roy. Soc. of Canada, 1887, Vol. 4, Sec. 3, 97.	253	253
226	1862	VICTORIA WEST —Fine Octahedrite. Victoria Group Cf Victoria West (31° 58' S, 23° 5' E), Central Cape Colony, South Africa. Described, Gregory, 1868, Geol. Mag., Vol. 5, p. 532	17	17

SIDERITES.

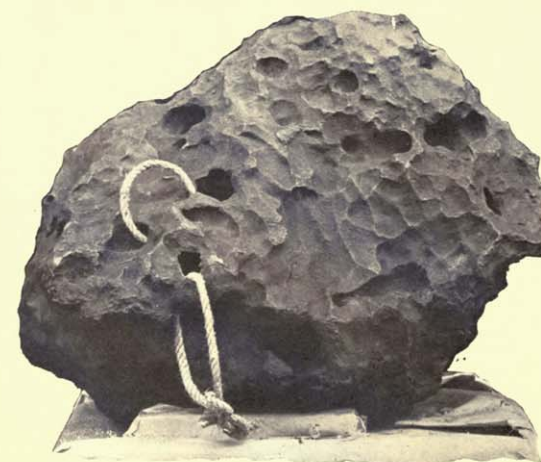
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No.	Found, Noticed or Described.	NAME OF THE METEORITE, with geographical index of locality.	Chief Piece.	Total Weight.
			Grammes.	
227	1887	WALDRON RIDGE —Broad Octahedrite Og Near Tazewell (36° 25' N, 83° 44' W), Claiborne County, Tennessee, U. S. A. Described, Kunz, 1887, Am. Jour. Science, Ser. 3, Vol. 34, pp. 475, 476.	430	430
228	1832	WALKER COUNTY —Normal Hexahedrite H Walker County (33° 50' N, 87° 15' W), Northern Alabama, U. S. A. Described, Troost, 1845, Am. Jour. Science, Ser. 1, Vol. 49, p. 344.	40	40
229	1898	WEAVER —Ataxite H Weaver Mountain (33° 58' N, 112° 35' W), near Wickenburg, Maricopa County, Arizona, U. S. A. Original mass (85½ lbs.) in Museum of State School of Mines, Tucson, Arizona. Undescribed.	394	394
230	1888	WELLAND —Medium Octahedrite Cm Welland (42° 59' N, 79° 14' W), Welland County, Ontario, Canada. Described, Howell, 1890, Proc. Rochester Acad. of Science, Vol. 1, pp. 86, 87.	202	364
231	1876	WERCHNE DNIEPROWSK —Finest Octahedrite Of Werchne Dnieprowsk (48° 25' N, 43° 10' E), Government Ekaterinoslav, Russia. Described, Brezina, 1885, Wiener Sammlung, pp. 208, 233.	99	99
232	1854	WERCHNE UDINSK —Medium Octahedrite Om Werchne Udinsk (52° 20' N, 109° 50' E), Trans- baikalia, Central Siberia. Described, Rose, 1863, Meteoriten, pp. 65, 153.	295	552
233	1836	WICHITA —Broad Octahedrite Og Wichita County (34° 0' N, 98° 40' W), Northern Texas, U. S. A. Described, Shumard, 1860, Trans. Acad. of Science, St. Louis, Vol. 1, pp. 622, 623.	902	1018
234	1902	WILLAMETTE —Medium Octahedrite Om Near Willamette (45° 22' N, 122° 35' W), Clack- amas County, Northern Oregon, U. S. A. Described by H. A. Ward, 1904, Proc. of the Rochester Acad. of Sciences, Vol. 4, pp. 137-148	13267	25125
235	1858	WOOSTER —Medium Octahedrite Cm Wooster (40° 48' N, 81° 58' W), Wayne County, Ohio, U. S. A. Described, Smith, 1864, Am. Jour. Science, Ser. 2, Vol. 38, pp. 385, 386.	10	10
236		YANHUITLAN —Fine Octahedrite Of Yanhuitlan (17° 40' N, 97° 0' E), four leagues north- east of Teposcolula, State of Oaxaca, Mexico. Brought from Teposcolula about 1830. Taken to City of Mexico, 1864.	9587	16380

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WARD-COONLEY COLLECTION OF METEORITES.

No.	Found, Noticed or Described.	NAME OF THE METEORITE, with geographical index of locality.	Chief Piece.	Total Weight.
			Grammes.	
237	1875	YARDEA STATION —Medium Octahedrite Om Four miles south of Yardea Station (32° 20' S, 136° 0' E), Gawler Range, South Australia. Recorded, Etheridge, Jr., 1897, Rec. Austr. Mus., Vol. 3, No. 3.	73	73
238	1884	YOUNDEGIN —Broad Octahedrite Og (Penkarring Rock) (31° 30' S, 117° 30' E), 70 miles east of York, West Australia. Described, Fletcher, 1887, Mineralog. Magaz., Vol. 7, pp. 121-130.	140842	145751
239	1792	ZACATECAS —Brecciated Octahedrite. Zacatecas Group Obz Few miles southwest of Zacatecas (22° 40' N, 102° 36' W), State of Zacatecas, Mexico. Described, Gazeta de Mexico, 1792, T. 5, No. 7, del Martes 3 de Abril de 1792, p. 58-60.	1246	1575



CAÑON DIABLO SIDERITE.

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II. SIDEROLITES.

No.	Found, Noticed or Described.	NAME OF THE METEORITE, with geographical index of locality.	Chief Piece.	Total Weight.
			Grammes.	
240	1881	ADMIRE —Pallasite. Rokicky Group Pr Admire (33° 0' N, 96° 5' W), 15 miles west from Osage City, Lyon County, Kansas, U. S. A. Described, 1902, Merrill, Proceedings of U. S. National Museum, Vol. 24, pp. 907-913.	7402	10902
241	Prehistoric	ANDERSON —Pallasite. Krasnojarsk Group Pk Turner Mounds (39° 10' N, 84° 18' W), Anderson Township, Hamilton County, Ohio, U. S. A. Described, Kinnieutt, 1884, 16th and 17th Annual Report of Museum of Am. Arch. and Ethnol., p. 384.	2	2
242	1842, July 4	BAREA —Mesosiderite M Barea (42° 23' N, 2° 30' W), Sierra de Chaco, Province Logroño, Spain. Reported, Greg, 1854, Catalogue Philos. Mag., Vol. 8, p. 460.	5	7
243	1802	BITBURG —Pallasite. Albacher Group Pa Albacher Mühle (49° 59' N, 6° 30' E), North of Trèves, Rhenish Prussia. Described, Gibbs, 1814, Bruce's Am. Mineralogical Jour., Vol. 1, pp. 219-221.	570	963
244	1810	BRAHIN —Pallasite. Rokicky Group Pr Near Rokicky (51° 46' N, 30° 10' E), Govern- ment of Minsk, Western Russia. Described, Laugier, 1817, Memoires du Museum, Paris.	53	85
245	1890	BREHAM —Pallasite. Krasnojarsk Group Pk Brenham, and vicinity (37° 38' N, 99° 13' W), Kiowa County, Kansas, U. S. A. Described, Kunz, 1890, Am. Jour. Science, Ser. 3, Vol. 40, p. 312.	45073	73030
246	1863	COPIAPO —Brecciated Octahedrite. Copiapo Group Obc Sierra de Deesa, southern part of Desert of Ata- cama (27° 24' S, 70° 20' W), Chili. Described, Haidinger, 1864, Sitzungsber. d. K. Akad. d. Wissensch., Bd. 49, P. 2, p. 490.	195	195
247	1887	CRAB ORCHARD —Grahamite Mg Powder Mill Creek (35° 53' N, 84° 48' W), 8 miles west of Rockwood Furnace, Cumberland County, Tennessee, U. S. A. Described, Whitfield, 1887, Am. Jour. Science, Ser. 3, Vol. 34, pp. 387-390.	1920	2574

No.	Found, Noticed or Described.	NAME OF THE METEORITE, with geographical index of locality.	Chief Piece.	Total Weight.
			Grammes.	
248	1888	DONA INEZ —Mesosiderite M Cerro de Doña Inez (25° 17' S, 68° 58' W), Province of Atacama, Chili. Described, Howell, 1890, Proc. Rochester Acad. of Science, Vol. 1, pp. 93-98.	270	639
249	1880	EAGLE STATION —Pallasite. Rokicky Group Pr Near Eagle Station (38° 37' N, 85° 0' W), Carroll County, Kentucky, U. S. A. Described, Kunz, 1887, Am. Jour. Science, Ser. 3, Vol. 33, pp. 228-232.	168	335
250	(Fall.) 1879, May 10	ESTHERVILLE —Mesosiderite M Estherville (43° 24' N, 94° 50' W), Emmet County, Iowa, U. S. A. Described, Peckham, 1879, Am. Jour. Science Ser. 3, Vol. 18, pp. 77, 78.	5087	7896
251	1902	FINMARKEN —Pallasite. Krasnojarsk Group Pk Amt Finmark (About 69° 42' N, 22° 13' E) Norway. Described, Cohen, 1903, Mitth. d. Naturw. Ver. f. Neu-Vorp. u. Rügen, Jahrg. 35.	300	300
252	1856	HAINHOLZ —Mesosiderite M Hainholz (51° 43' N, 8° 46' E), near Minden, Westphalen. Described, Wöhler, 1857, Pogg. Ann., Vol. 100, pp. 342-345.	1048	2585
253	Prehistoric	HOPEWELL —Medium Octahedrite Om Hopewell Mounds (39° 10' N, 83° 20' W), North Fork of Paint Creek, Ross County, Ohio, U. S. A. Described, Farrington, 1902, Field Columbian Museum, Geol. Series, Vol. 1, pp. 310-314.	1	3
254	1822	IMILAC —Pallasite. Imilac Group P Wells of Imilac (24° 4' S, 68° 36' W), Province of Atacama, Chili. Described, Allan, 1828, Edinburgh Philos. Trans., Vol. 11, pp. 223-226.	206	467
255	1888	LLANO DEL INCA —Mesosiderite M Llano del Inca (26° 40' S, 69° 31' W), Desert of Atacama, Chili. Described, Howell, 1890, Proc. Rochester Acad. of Sciences, Vol. 1, pp. 93-98.	27	119
256	1868	LODHRAN —Lodhranite Lo Twelve miles east of Lodhran (29° 32' N, 71° 40' E) Mooltan, Punjab Province, India. Described, Oldham, 1869, Rec. Geol. Survey, India, Vol. 2, Part 1, pp. 20, 34.	1	2

SIDEROLITES.

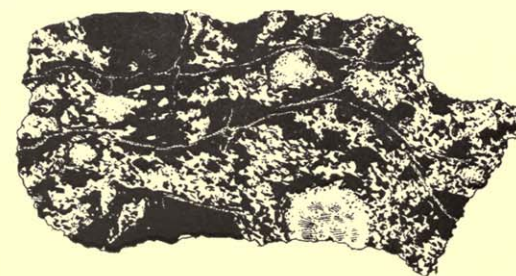
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No.	Found, Noticed or Described.	NAME OF THE METEORITE, with geographical index of locality.	Chief Piece.	Total Weight.
			Grammes.	
257	Prehistoric	LUJAN —Mesosiderite M Near Villa Lujan (34° 40' S, 58° 50' W), Province of Buenos Ayres, Argentine Republic. Recorded, H. A. Ward, 1892, The Ward Collection of Meteorites, p. 37, No. 147, Rochester, 1902..	2	2
258	(Fell.) 1902, June 15	MARJALAHTI —Pallasite. Imilac Group Pi Marjalahti Bay (62° 32' N, 5° 15' E), Ladoga Lake, Finland, Russia. Described, Borgström, 1903, Die Meteoriten von Hvittis und Marjalahti, pp. 45-68, Helsingfors..	543	543
259	1857	MACQUAIRE RIVER —Mesosiderite M Macquaire River (31° 30' S, 152° 56' E), New South Wales, Australia.....	58	58
260	1749	MEDWEDEWA —Pallasite. Krasnojarsk Group Pk Medwedewa (Krasnojarsk), (51° 25' N, 92° 0' E), Government of Jeniseisk, Central Siberia. Described, Pallas, 1776, Reise durch versch., Pro- vinzen des Russ. Reichs, St. Petersburg, Part 3, p. 411	298	785
261	1874	MEJILLONES —Grahamite Mg Near Mejillones (23° 6' S, 70° 21' W), Province of Atacama, Chili. Described, Domeyko, 1875, Comptes Rendus, T. 81, pp. 597, 598.....	185	185
262	1860	MINCY —Mesosiderite M Mincy (36° 35' N, 93° 7' W), Taney County, Missouri, U. S. A. Described, Shepard, 1860, Am. Jour. Science, Ser. 2, Vol. 30, pp. 205, 206.....	2152	2152
263	1887	MORRISTOWN —Grahamite Mg Six miles west-southwest from Morristown (36° 9' N, 83° 24' W), Hamblen County, Tennessee, U. S. A. Described, Eakins, 1893, Am. Jour. Science, Ser. 3, Vol. 46, pp. 283-285.....	2215	4259
264	1903	MOUNT DYRRING —Pallasite. Krasnojarsk Group Pk Mount Dyrring (32° 30' S, 151° 10' E), 8 miles north of Bridgman, Singleton District, New South Wales, Australia. Described, Card, 1903, Rec. Geol. Survey of New South Wales, Vol. 7, Part 3, pp. 217-219.....	132	132
265	1868	MOUNT VERNON —Pallasite. Krasnojarsk Group Pk Mount Vernon, Christian County, Kentucky, U. S. A. Described, Merrill, 1903, American Geologist.....	2190	2190

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WARD-COONLEY COLLECTION OF METEORITES.

No.	Found, Noticed or Described	NAME OF THE METEORITE, with geographical index of locality.	Chief Piece.	Total Weight.
			Grammes.	
266	1885	PAVLODAR —Pallasite. Krasnojarsk Group Pk Pavlodar, Jamyschewa, near (51° 30' N, 76° 40' E), Semipalatinsk, Government of Tomsk, West Siberia, Asia. Described, Brežina, 1893, Verhdl. d. Ges. deutsch. Naturf. und Aerzte, Nürnberg.....	1414	1414
267	1833	STEINBACH —Siderophyre Si Rittersgrün, Saxony (50° 29' N, 12° 48' E).....	149	46
	1861	Breitenbach, Bohemia (50° 23' N, 12° 46' E)..... Described (Rittersgrün), Breithaupt, 1861, Zeitsch. d. d. Geol. Gesellschaft, Vol. 13, p. 148. Described (Breitenbach), Rose, 1864, Zeitsch. d. d. Geol. Gesellschaft, Vol. 16, pp. 353, 356....		195
268	1861	VACA MUERTA —Grahamite Mg Llano de Vaca Muerta (25° 42' S, 70° 18' W), Desert of Atacama, Chili. Described, Domeyko, 1862, Comptes Rendus, T. 55, pp. 873, 874.....	170	283
269	(Fell.) 1880, Feb.	VERAMIN —Mesosiderite M Plain of Veramin (35° 46' N, 51° 36' E), 12 miles east of Teheran, Persia. Described, Dietsch, 1881, Berg-und-Hüttenm. Zeitung, Vol. 40, p. 100.....	1015	1037



MORRISTOWN (HAMBLÉN COUNTY), SIDEROLITE.

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III. AEROLITES.

CHRONOLOGY OF THOSE SEEN TO FALL.

No.	Found, Noticed or Described.	NAME OF THE METEORITE, with geographical index of locality.	Chief Piece.	Total Weight.
			Grammes.	
270	1814, Sept. 5	AGEN —Intermediate veined Chondrite Cia Agen (44° 24' N, 0° 29' E), Département du Lot- et-Garonne, France. Described, M. de Saint-Amans, et M. Thiébaud de Berneaud, Sept. 17th, 1814, Ann. Chim., J. 92, pp. 25-32.	255	255
271	1822, Aug. 7	AGRA —Gray Chondrite, veined Cga Kadonah (27° 20' N, 78° 5' E), near Agram, Province of Doab, India. Recorded, Malte Brun, 1834, Nouv. Annal. des Voyag. de la Geogr. et de la Hist., Ser. 3, T. 2.	13	18
272	1838, Apr. 18	AKBURPUR —Gray Chondrite, brecciated Cgb Akburpur (26° 20' N, 80° 30' E), near Cawnpore, N. W. Provinces, India. Recorded, Greg, 1854, Philos. Mag., p. 460.	7	7
273	1806, Mch. 15	ALAIS —Carbonaceous Chondrite K Alais (44° 0' N, 4° 15' E), and Vicinity, Départe- ment du Gard, France. Described, Pagès et Dhombres-Firmas, 1806, Jour. Phys., T. 62, pp. 440-442.	12	12
274	1766, July	ALBARETO —Spherulitic Chondrite Cc Albareto (44° 41' N, 10° 57' E), near Modena, Province of Modena, Italy. Described, Troili, 1766, Della caduta di un sasso dall aria, Modena.	15	15
275	1835, Aug. 4	ALDSWORTH —Gray Chondrite, veined Cga Aldsworth (51° 43' N, 1° 58' W), near Cirencester, Gloucestershire, England. Described, Greg, 1854, Catalogue, Philos. Magaz., Vol. 4, No. 8, p. 460.	4	4
276	1873	ALEPPO —White Chondrite, brecciated Cwb Aleppo (36° 12' N, 37° 4' E), Province of Aleppo, Asia Minor. Described, Brezina, 1893, Ueber neuere Meteoriten, Verhandl. der Ges. Deutsch Naturf. und Aerzte, Nürnberg, p. 159.	10	19
277	1860, Feb. 2	ALESSANDRIA —Gray Chondrite, veined Cga Alessandria (44° 54' N, 8° 35' E), Valley of San Giuliano Vecchio, Province of Alessandria, Italy. Described, Missaghi, 1861, Nuovo Cimento, T. 13, p. 272.	70	70

No.	Found, Noticed or Described.	NAME OF THE METEORITE, with geographical index of locality.	Chief Piece.	Total Weight.
			Grammes.	
278	1883, Feb. 16	ALFIANELLO —Intermediate Chondrite Ci Alfianello (45° 16' N, 10° 9' E), Province of Ercesia, Italy. Described, Bombicci, 1883, Reale Accademia dei Lincei, 1882-83, p. 11.	4638	5039
279	1899, July 10	ALLEGAN —Ornansite Cco Allegan (42° 34' N, 85° 52' W), Allegan County, Michigan, U. S. A. Described, H. L. Ward, 1899, Am. Jour. Science, Ser. 4, Vol. 8, pp. 412-414.	264	701
280	1895, Mch. 27	AMBAPUR NAGLA —Spherulitic Chondrite, crys- talline Cck Sikandra Rao Tahsil (27° 38' N, 77° 42' E), Aligarh District, N. W. Provinces, India. Main mass (some 4 kilos) in Indian Museum, Cal- cutta. Undescribed.	13	40
281	1898, Aug. 5	ANDOVER —Spherulitic Chondrite Cc Andover (44° 36' N, 70° 47' W), Oxford County, Maine, U. S. A. Described, H. A. Ward, 1902, Proc. Rochester Acad. Science, Vol. 4, pp. 79, 80.	91	91
282	1822, June 3	ANGERS —White Chondrite, veined Cwa Angers (47° 28' N, 0° 34' W), Département de Maine-et-Loire, France. Described, Gilbert, 1822, Gilb. Am. Bd. 71, pp. 345-353.	28	28
283	1869, Jan.	ANGRA DOS REIS —Angrite A Angra dos Reis (22° 52' S, 44° 20' W), Province of Rio Janeiro, Brazil. Described, Tschermak, 1885, Sitzber. Wien. Akad., Ed. 92, Part I, p. 110.	6	10
284	1803, Oct. 8	APT —Gray Chondrite, veined Cga Saurette, near Apt (43° 52' N, 5° 23' E), Départe- ment de Vaucluse, France. Recorded, Bourdon, 1803, Moniteur, Nov. 24, Paris	34	34
285	1805, Nov.	ASCO —White Chondrite, veined Cwa Asco (42° 28' N, 9° 2' E), Island of Corsica, Med- iterranean Sea. Described, Partsch, 1843, Meteoriten, p. 64.	5	9
286	1846	ASSAM —Gray Chondrite, brecciated Cgb State of Assam, India. Recorded, Piddington, 1846, Jour. Asiat. Soc. of Bengal, Vol. 15, p. 46.	3	3
287	1886, May 24	ASSISI —Spherulitic Chondrite Cc Torre (43° 4' N, 12° 36' E), near Assisi, Province of Perugia, Italy. Described, Bellucci, 1887, Tipografia di Vincenzo Santucci, Perugia, 1887, 8 Seiten.	69	119

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No.	Found, Noticed or Described.	NAME OF THE METEORITE, with geographical index of locality.	Chief Piece.	Total Weight.
			Grammes.	
288	1836, Sept. 14	AUBRES —Bustite Bu Aubres (44° 22' N, 5° 8' E), Département de la Drome, France. Described, Gregory, 1887, Geol. Mag., Vol. 3, Nr. 12.....	15	15
289	1842, June 4	AUMIERES —White Chondrite, veined Cwa Aumières (44° 18' N, 3° 13' E), Département de la Lozère, France. Described, de Malbos, 1842, Comptes Rendus, T. 14, pp. 917, 918.....	19	34
290	1858, Dec. 9	AUSSON —Spherulitic Chondrite Cc Ausson (43° 4' N, 0° 34' E), Département de la Haute Garonne, France. Described, Petit, 1858, Comptes Rendus, T. 47, pp. 1053-1055.....	182	342
291	1856, June	AVILEZ —Spherulitic Chondrite Ce Hacienda d'Avilez (24° 50' N, 103° 52' W), State of Durango, Mexico. Described, Wöhler, 1867, Gött. Gel. Anz., pp. 57, 58.....	6	6
292	1814, Feb. 15	BACHMUT —White Chondrite Cw Bachmut, near Alexejewka (48° 34' N, 37° 52' E), Government of Ekaterinoslaw, Russia. Described, Giese, 1815, Gilb. Ann., Bd. 50, pp. 117, 118.....	26	26
293	1871, Dec. 10	BANDONG —Rodite Ro Bandong (6° 50' S, 108° 0' E), Province of Pre- anger, Java. Described, Everwijn, 1872, Jaarboek, van het Mynwezen in Nederlandsch Ost India, Deel 2, p. 197.....	17	25
294	1852	BARRATTA —Gray Chondrite, brecciated Cgb Barratta Station (35° 15' S, 144° 36' E), thirty- five miles northwest of Deniliquin, New South Wales, Australia. Described, Liversidge, 1872, Trans. Royal Soc. New South Wales, Vol. 6, pp. 97, 98.....	72933	84694
295	1790, July 24	BARBOTAN —Gray Chondrite, veined Cga Barbotan (43° 57' N, 0° 4' E) and vicinity, Dé- partement des Landes, France. Described, Bertholon, 1790, Journ. des Sciences utiles, Nr. 23 und 24, p. 305.....	315	329
296	1892, Aug. 29	BATH —Gray Chondrite, brecciated Ccb Near Bath (45° 27' N, 98° 19' W), Brown County, South Dakota, U. S. A. Described, Foote, 1893, Am. Jour. Science, Ser. 3, Vol. 45, pp. 64, 65.....	1744	1744

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WARD-COONLEY COLLECTION OF METEORITES.

No.	Found, Noticed or Described.	NAME OF THE METEORITE, with geographical index of locality.	Chief Piece.	Total Weight.
			Grammes.	
297	1902, Nov. 15	BATH FURNACE —Intermediate Chondrite veined Cia Five miles south of Salt Lick (38° 2' N, 83° 37' W), Bath County, Kentucky, U. S. A. Recorded, Miller, 1903, Science, Jan. 16, 1903....	3055	3055
298	1893, May 26	BEAVER CREEK —Spherulitic Chondrite, crystal- line Cck Near boundary of United States on Beaver Creek, West Kootenai District, British Columbia. Recorded, Howe, 1893, Science, Vol. 12, No. 546, p. 41.....	1103	2081
299	1798, Dec. 19	BENARES —Spherulitic Chondrite Cc Near Krakhut (25° 48' N, 82° 42' E), Benares, Northwestern Provinces, India. Described, Howard, 1802, Philos. Trans., 1802, pp. 175-179.....	8	8
300	1811, July 8	BERLANGUILLAS —Intermediate Chondrite, veined Cia Berlanguillas (41° 41' N, 3° 48' W), Province of Burgos, Spain. Described, Comte Dorsenne, 1811, Bibl. Brit., Vol. 48, pp. 162-164.....	9	20
301	1859, Aug. 11	BETHLEHEM —Spherulitic Chondrite, crystalline Cck Bethlehem (42° 6' N, 73° 47' W), near Albany, Albany County, New York, U. S. A. Described, Shepard, 1859, Am. Jour. Science, Ser. 2, Vol. 28, pp. 300-303.....	1	1
302	1859, May	BEUSTE —Gray Chondrite, brecciated Cgb Beuste (43° 18' N, 0° 37' W), Département des Basses Pyrénées, France. Described, Danbrée, Comptes Rendus, T. 76, pp. 35, 316.....	37	37
303	1827, Oct. 5	BIALYSTOCK —Howardite Ho Bialystock (53° 12' N, 23° 10' E), Government of Bialystock, Russia. Recorded, 1828, Clute d' Aerolithe en Russe, Ann. Chim. Phys., T. 39, p. 421.....	5	5
304	1887, Jan. 1	BIELOKRYNITSCHIE —Intermediate Chondrite, brecciated Gib Bielokrynitschie (50° 8' N, 26° 44' E), Government of Volhynien, Russia. Described, Agafonov, 1891, Trav. Soc. Nat. Pet., T. 21, p. 20.....	257	308
305	1843, Mch. 25	BISHOPVILLE —Chladnite, veined Chla Near Bishopville (34° 12' N, 80° 18' W), Sumter County, South Carolina, U. S. A. Described, Shepard, 1846, Am. Jour. Science, Ser. 2, Vol. 2, pp. 379, 384, 392.....	14	76

AEROLITES.

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No.	Found, Noticed or Described.	NAME OF THE METEORITE, with geographical index of locality.	Chief Piece.	Total Weight.
			Grammes.	
306	1895, April 26.	BISHUNPUR —Black Chondrite Cs Bishunpur (25° 6' N, 82° 37' E), Mirzabur District, Northwest Provinces, India. Recorded, Fletcher, 1896, <i>Introd. to Study of Meteorites</i> , London.	6	6
307	1796, Jan. 15	BJELAJA ZERKOV —Spherulitic Chondrite Ce Bjelaja Zerkov (49° 50' N, 30° 6' E), Ukraine, Government of Kief, Russia. Described, Stoikowitz, 1809, <i>Gilb. Ann.</i> , Bd. 31, p. 307.	5	7
308	1899, Mch. 12	BJURBÖLE —Spherulitic Chondrite, veined Cea Bjurböle (60° 20' N, 26° 0' E), near Borga, South Coast of Finland, Baltic Russia. Described, Ramsay and Borgström, 1902, <i>Bull. de la Commis. Géol. de Finlande</i> , No. 12, Hel- singfors, Russia.	4790	6030
309	1833, Nov. 25	BLANSKO —Gray Chondrite, veined Cga Blansko (49° 20' N, 16° 38' E), Province of Mo- ravia, Austria. Described, v. Reichenbach, 1834, <i>Neues Jahrbuch für Mineralogie, Geologie, etc.</i> , 1834, pp. 125, 126	11	11
310	1878	BLUFF —Crystalline Chondrite, brecciated Ckb Bluff (29° 52' N, 96° 48' W), three miles southwest of La Grange, Fayette County, Texas, U. S. A. Described, Whitfield and Merrill, 1888, <i>Am. Jour. Science</i> , Ser. 3, Vol. 36, pp. 113-119.	8607	21707.
311	1804, Nov. 24	BOCAS —White Chondrite Cw Hacienda de Bocas (22° 28' N, 101° 5' W), State of San Luis Potosi, Mexico. Recorded, Burkart, 1865, <i>Verhdl. Naturh. Ver. von Bonn</i> , Bd. 22, p. 71.	1	1
312	1808, April 19.	BORG SAN DONINO —Ch Borgo San Donino (44° 47' N, 10° 4' E), Cusignano, near Parma, Italy. Described, Guidotti, 1808, " <i>Encyclopédie</i> ," Vol. 5, 1808, pp. 596-602.	6	11
313	1894, May 9	BORI —Intermediate Chondrite, veined Cia Bori (22° 1' N, 78° 1' E), twelve miles northeast of Badnur, Betul District, Northwestern Pro- vinces, India. Described, Brezina, 1895, <i>Wiener Sammlung</i> , p. 248.	497	497
314	1852, Oct. 13	BORKUT —Spherulitic Chondrite Ce Borkut (48° 7' N, 24° 17' E), Comitad of Marmar- osch, Hungary. Described, Leydolt, 1856, <i>Sitzber. Wien. Akad.</i> , Bd. 20, 1856, II, pp. 398-406.	49	49

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WARD-COONLEY COLLECTION OF METEORITES.

No.	Found, Noticed or Described.	NAME OF THE METEORITE, with geographical index of locality.	Chief Piece.	Total Weight.
			Grammes.	
315	1812, Sept. 5	BORODINO —Gray Chondrite, brecciated Cgb Borodino (55° 33' N, 35° 47' E), near Kolotschia, Government of Moscow, Russia. Described, Brezina, 1895, <i>Wiener Sammlung</i> , p. 250.	1	1
316	1823	BOTSCHETSCHKI —Gray Chondrite Cg Botschetschki (50° 23' N, 36° 5' E), Government of Kursk, Russia. Described, Patsch, 1843, <i>Meteoriten</i> , p. 70.	11	11
317	1855, May 13	BREMERVÖRDE —Spherulitic Chondrite, brecciated Ceb Bremervörde (53° 30' N, 9° 8' E), near Gnarrren- burg, Province of Hanover, Germany. Described, Wöhler, 1855, <i>Gött. gel. Anz. (Nachr.)</i> , 1855, p. 142.	17	29
318	1863, June 23	BUSCHHOF —White Chondrite, veined Cwa Buschhof (56° 18' N, 25° 53' E), near Jacobstadt, Kurland, Baltic Provinces, Russia. Described, Grewingk, 1863, <i>Rigaer Zeitung</i> , Nr. 127.	21	45
319	1852, Dec. 2	BUSTEE —Bustite Bu Bustee (26° 47' N, 82° 48' E), District of Goruck- pur, Northwest Provinces, India. Described, Reichenbach, 1862, <i>Pogg. Ann.</i> , Bd. 115, pp. 620-636.	5	5
320	1861, May 12	BUTSURA —Intermediate Chondrite Ci Butsura (27° 5' N, 84° 10' E), 42 miles northeast of Goruckpur, Northwestern Provinces, India. Described, Haidinger, 1862, <i>Sitzungsber. der Akad. der Wissensch.</i> , Bd. 45, pp. 665-671.	27	38
321	1870, Aug. 18	CABEZZO DE MAYO —White Chondrite Cw Cabezzo de Mayo (37° 59' N, 1° 10' W), Province of Murcia, Spain. Described, D. Juan de Velasco, 1870, <i>El Tiempo</i> , Nr. 247, vom. 20 Okt., 1870.	103	160
322	1861, May 14	CANELLAS —Intermediate Chondrite Ci Canelas (41° 15' N, 1° 40' W), near Barcelona, Province of Barcelona, Spain. Described, Greg, 1861, <i>Philos. Mag.</i> , Vol. 22, pp. 107, 108.	7	9
323	1866, Dec. 6	CANGAS DE ONIS —Gray Chondrite, brecciated Cgb Cangas de Onis (Engueras) (43° 26' N, 5° 10' W), Province of Oviedo, Spain. Described, Römer, 1873, <i>Geologische Reisenotizen aus der Sierra Morena</i> , N. J., 1873, p. 257.	54	113

No.	Found, Noticed or Described.	NAME OF THE METEORITE, with geographical index of locality.	Chief Piece.	Total Weight.
			Grammes.	
324	1846, Aug. 14	CAPE GIRARDEAU —Spherulitic Chondrite Cc Seven miles south of Cape Girardeau (37° 13' N, 89° 32' W), Cape Girardeau County, Missouri, U. S. A. Described, Dana and Penfield, 1886, Am. Jour. Science, Ser. 3, Vol. 32, pp. 229, 230.....	43	61
325	1888	CARCOTE —Crystalline Chondrite Ck Carcote, Province of Atacama, Chili, S. A. Described, Sandberger, 1889, N. J., pp. 173-180..	1	1
326	1874, May 14	CASTALIA —Gray Chondrite, brecciated Cgb Near Castalia (36° 4' N, 78° 4' W), Nash County, North Carolina, U. S. A. Described, Kerr, 1875, Rep. Geol. Surv., North Carolina, Vol. I, App., p. 313.....	185	185
327	1848, May 20	CASTINE —White Chondrite, veined Cwa Castine (44° 24' N, 68° 48' W), Hancock County, Maine. Described, Shepard, 1848, Am. Jour. Science, Ser. 2, Vol. 6 pp. 251-253.....	42	42
328	1840, July 17	CERESETO —Spherulitic Chondrite, brecciated Ccb Cereseto (45° 4' N, 8° 20' E), near Ottiglio, Prov- ince of Alessandria, Italy. Described, Sismonda 1840, Atti della seconda riunione degli scienziati Italiani tenuta in Torino nel Settembre del 1840.....	9	9
329	1838, June 6	CHANDAKAPUR —Intermediate Chondrite, brecciated Ccb Chandakapur (21° 10' N, 79° 10' E), Valley of Berar, India. Described, Greg, 1854, Philos. Magaz. (4), Vol. 8, p. 460.....	68	91
330	1812, Aug. 5	CHANTONNAY —Gray Chondrite, brecciated Cgb Chantonnay (46° 40' N, 1° 50' W), Département de la Vendée, France. Described, Chladni, 1819, Vierte Fortsetzung, Gibb. Ann., Vol. 60, pp. 239, 247, 248.....	46	46
331	1810, Nov. 23	CHARSONVILLE —Gray Chondrite, veined Cga Charsonville (47° 56' N, 1° 35' E) (Chartres), Meung sur Loire, Département du Loiret, France. Described, Moniteur, Dec. 1810, Auszug in Bibl. Brit., Vol. 45, Nr. 360, pp. 397-400.....	23	42
332	1834, June 12	CHARWALLAS —Intermediate Chondrite Ci Charwallas (29° 10' N, 75° 27' E), 20 miles south southeast of Sirsa, Punjab States, India. Recorded, 1834, Jour. Asiatic Soc. of Bengal, No. 32, Aug. 1834.....	1	1

No.	Found, Noticed or Described.	NAME OF THE METEORITE, with geographical index of locality.	Chief Piece.	Total Weight.
			Grammes.	
333	1815, Oct. 3	CHASSIGNY —Chassignite C _{1a} Chassigny, near Langres, Département de la Haute- Marne, France. Described, Pistolet, 1816, Ann. Chim. Phys., Vol. 1, pp. 45-48.....	10	10
334	1841, June 12	CHÂTEAU-RENARD —Intermediate Chondrite, veined C _{1a} Château-Renard (47° 56' N, 2° 58' E), Montargis, Département du Loiret, France. Described, Delavaux, 1841, Comptes Rendus, Vol. 12, pp. 1190, 1191.....	174	250
335	1838, Oct. 13	COLD BOKKEVELD —Carbonaceous Chondrite K Cold Bokkeveld (33° 14' S, 19° 6' E), 15 miles north of Tulbagh, Cape Colony, Africa. Described, Maclear and Watermeyer, 1839, Phil. Trans. Royal Soc., London, 1839, I, pp. 83-85..	26	65
336	1890, Feb. 3	COLLESCIPOLI —Spherulitic Chondrite Cc Collescipoli (42° 32' N, 12° 38' E), near Terni, Province of Perugia, Italy. Described, Terenzi, 1890, Rivista di Scienze Naturali di S. Brogi, Anno X, Nr. 3.....	63	107
337	1844, Jan.	COSINA —Crystalline Chondrite Ck Lora de la Cosina (21° 7' N, 100° 34' W), near Dolores Hidalgo, State of Guanajuato, Mexico. Described, Burkart, 1865, Verh. Naturh. Ver. von Bonn, Bd. 22, p. 71.....	5	5
338	1877, Mch. 9	CRONSTADT —Gray Chondrite, veined Cga Cronstad (26° 37' S, 27° 15' E), Orange Free State, Africa. Described, Brezina, 1885, Wiener Sammlung, p. 182.....	6	10
339	1892, May 24	CROSS ROADS —Gray Chondrite Cg Cross Roads Township (35° 38' N, 78° 7' W), Wilson County, North Carolina, U. S. A. Described, Howell, 1893, Am. Jour. Science, Ser. 3, Vol. 46, p. 67.....	18	18
340	1877, Jan. 23	CYNTHIANA —Gray Chondrite Cg Nine miles from Cynthiana (38° 24' N, 84° 16' W), Harrison County, Kentucky, U. S. A. Described, Smith, 1877, Am. Jour. Science, Ser. 3, Vol. 14, pp. 224-229.....	7	22
341	1878, Sept. 5	DANDAPUR —Intermediate Chondrite, veined C _{1a} Dandapur (26° 50' N, 83° 18' E), District of Gorak- pur, Northwest Provinces, India. Described, Meunier, 1884, Météorites, p. 209.....	65	65

AEROLITES.

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No.	Found, Noticed or Described.	NAME OF THE METEORITE, with geographical index of locality.	Chief Piece.	Total Weight.
			Grammes.	
342	1868, Mch. 20	DANIELS KUIL —Crystalline Chondrite Ck Daniels Kuil (28° 10' S, 23° 35' E), Griqualand West, South Africa. Described, Gregory, 1868, Geol. Magaz., Vol. 5, pp. 531, 532.	13	17
343	1868, Nov. 27	DANVILLE —Gray Chondrite, veined Cga Near Danville (34° 24' N, 87° 5' W), Morgan County, Alabama, U. S. A. Described, Smith, 1870, Am. Jour. Science, Ser. 2, Vol. 49, pp. 90-93.	5	5
344	1829, Aug. 14	DEAL —Intermediate Chondrite Ci Deal (40° 14' N, 74° 1' W), near Long Branch, Monmouth County, New Jersey, U. S. A. Described, Vaux and M'Euen, 1829, Trans. Acad. Nat. Sci., Phila., Vol. 16, p. 181.	1	1
345	1887, Jan. 21	DE CEWSVILLE —White Chondrite Cw De Cewsville (44° 56' N, 79° 55' W), Haldimand County, Ontario, Canada. Described, Huntington, 1888, Proc. Amer. Acad. Arts and Sci., Vol. 23, p. 102.	1	1
346	1877, Nov. 27	DHULIA —White Chondrite, veined Cwa Dhulia (20° 54' N, 75° 10' E), near Bhagur, Bombay Presidency, India. Described, Brezina, 1878, Akad. Anzeiger Wien, Bd. 15, pp. 213, 214.	1	2
347	1860, July 14	DHURMSALA —Intermediate Chondrite Ci Dhursala (32° 15' N, 76° 20' E), District of Kangra, Punjab Provinces, India. Recorded, 1862, Jour. Geol. Soc. Dublin, Vol. 10, P. 1, pp. 7-11.	1414	2901
348	1884, Mch. 19	DJATI PENGILON —Crystalline Chondrite Ck Djati Pengilon (7° 18' S, 111° 20' E), District of Ngawi, Island of Java. Described, Verbeek and Retgers, 1886, Jaarboek van het Mijnwezen Nederlandsch Oost-Indie Wetens. Ged., Vol. 15, pp. 145-171.	28	39
349	1864, June 26	DOLGOWOLI —White Chondrite Cw Dolgowoli (50° 46' N, 25° 20' E), Government of Volhynia, Russia. Described, Heis, 1864, Wochenschrift f. Astronomie, 1864, p. 328.	7	7
350	1805, April 6	DORONINSK —Gray Chondrite, brecciated Cgb Doroninsk (50° 30' N, 112° 20' E), Government of Irkutsk, East Siberia, Asia. Described, Gilbert, 1808, Gilb. Ann., Vol. 29, pp. 212, 213.	53	53

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WARD-COONLEY COLLECTION OF METEORITES.

No.	Found, Noticed or Described.	NAME OF THE METEORITE, with geographical index of locality.	Chief Piece.	Total Weight.
			Grammes.	
351	1827, May 9	DRAKE CREEK —White Chondrite, veined Cva Drake Creek (36° 18' N, 86° 34' W), Sumner County, Tennessee, U. S. A. Described, Silliman, 1837, Am. Jour. Science, Ser. 1, Vol. 17, pp. 326-328.	129	129
352	1865, Aug. 12	DUNDRUM —Crystalline Chondrite Ck Dundrum (52° 33' N, 8° 2' W), Tipperary County, Ireland. Described, Haughton, 1866, Philos. Mag., Vol. 32, pp. 260-266.	1	1
353	1815, Feb. 18	DURALA —Intermediate Chondrite, veined Cia Durala (32° 34' N, 76° 36' E), 18 miles south of Umballa, Punjab States, India. Recorded, Bird, 1820, Tillock's Philos. Mag., Vol. 56, pp. 156, 157.	25	25
354	1872, May 8	DYALPUR —Ureilite U Dyalpur (26° 16' N, 82° 9' E), Sultanpur, Oudh States, India. Described, Brezina, 1882, Bericht 4, Sitzber. Wien. Akad., Bd. 85, Pt. 1, pp. 338, 339.	1	1
355	1889	ELI ELWAH — Eli Elwah Station (34° 18' S, 144° 0' E), 15 miles west of Hay, New South Wales, Australia. Described, Liversidge, 1890, Proc. Austr. Assoc. Adv. Science, p. 388.	2	3
356	1492, Nov. 16	ENSISHEIM —Crystalline Chondrite, brecciated Ckb Ensisheim (47° 51' N, 7° 22' E), Province of Elsass, Germany. Described, Sebastian Brand, 1492 (a Latin song with translation).	399	474
357	1822, Sept. 13	EPINAL —Spherulitic Chondrite Cc Epinal (48° 9' N, 6° 35' E), Commune of La Baffe, Département des Vosges, France. Described, Parisot, 1822, Gilb. Ann., Bd. 72, pp. 323-327.	12	19
358	1889, July	ERGHEO —Crystalline Chondrite, breccialike Ckb Amana, near Ergheo (1° 6' N, 43° 50' E), west of Barava, Somali Land, East Africa.	399	474
359	1812, April 15	ERXLEBEN —Crystalline Chondrite Ck Erxleben (52° 13' N, 11° 14' E), Province of Saxony, Prussia. Described, Hausmann and Vieth, 1812, Gilb. Ann., Bd. 40, pp. 450-459.	49	49
360	1837, Aug. 3	ESNANDES —Gray Chondrite Cg Esnandes (46° 14' N, 1° 10' E), Département de la Charente-Inferieure, France. Recorded, 1837, L'Institut, T. 5, No. 220, p. 334.	23	23

AEROLITES.

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No.	Found, Noticed or Described.	NAME OF THE METEORITE, with geographical index of locality.	Chief Piece.	Total Weight.
			Grammes.	
361	1890, June 25	FARMINGTON —Black Chondrite, veined Csa Farmington (39° 48' N, 97° 5' W), Washington County, Kansas, U. S. A. Described, Snow, 1890, Science, July 18, 1890, Vol. 16, pp. 38, 39.....	3570	6753
362	1844, Oct. 21	FAVARS —Intermediate Chondrite Ci Favars (46° 4' N, 0° 38' E), Département de l'Aveyron, France. Described, Boisse, 1844, L'Institut, No. 570, T. 12, p. 399.....	21	29
363	1900, May 15	FELIX —Carbonaceous Chondrite, spherulitic Kc Near Felix (32° 33' N, 87° 12' W), Perry County, Alabama, U. S. A. Described, Merrill, 1901, Proc. U. S. Nat. Mus., Vol. 24, pp. 193-198.....	50	50
364	1894, April 9	FISHER —Intermediate Chondrite, veined Cia Fisher (47° 48' N, 96° 49' W), Polk County, Minne- sota, U. S. A. Described, Winchell, 1894, Am. Geol., Vol. 14, p. 389.....	277	410
365	1890, May 2	FOREST —Spherulitic Chondrite, brecciated Ccb Near Forest City (43° 17' N, 93° 38' W), Winne- bago County, Iowa, U. S. A. Described, Torrey and Barbour, 1890, Am. Jour. Science, Ser. 3, Vol. 39, pp. 521, 522.....	1774	5120
366	1829, May 8	FORSYTH —White Chondrite, veined Cwa Near Forsyth (33° 3' N, 83° 56' W), Monroe County, Georgia, U. S. A. Described, Silliman, 1830, Am. Jour. Science, Ser. 1, Vol. 18, p. 388.....	42	48
367	1868, Dec. 5	FRANKFORT —Howardite Ho Four miles south of Frankfort (34° 30' N, 87° 52' W), Franklin County, Alabama, U. S. A. Described, Brush, 1869, Am. Jour. Science, Ser. 2, Vol. 48, pp. 240-244.....	7	7
368	1882, Mch. 19	FUKUTOMI —Gray Chondrite, veined Cga Fukutomi (about 33° 10' N, 130° 10' W), Kine- shima District, Province of Hizen, West Coast of Japan. Recorded, Clarke, 1888, Am. Jour. Science, Ser. 3, Vol. 35, p. 264.....	179	179
369	1822, Nov. 30	FUTTEHPUR —White Chondrite, veined Cwa Futtehpur (25° 50' N, 80° 40' E), Northwest Prov- inces, India. Described, 1828, Edinburgh Jour. Science, No. 15, p. 171.....	39	77

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WARD-COONLEY COLLECTION OF METEORITES.

No.	Found, Noticed or Described.	NAME OF THE METEORITE, with geographical index of locality.	Chief Piece.	Total Weight.
			Grammes.	
370	1826, May 25	GALAPIAN —White Chondrite, veined Cwa Galapian (44° 13' N, 0° 38' E), near Agen, Départe- ment de Lot-et-Garonne, France. Described, von Hoff, 7, Nachtrag, Pogg. Ann., Bd. 18, p. 185.....	3	5
371	1900	GERONA —White Chondrite, brecciated Cwb Gerona (41° 58' N, 2° 50' E), Province of Gerona, Spain. Mass in Royal Museum of Madrid, Spain. Unde- scribed.....	1	1
372	1897, Sept. 15	GHANBAT —Intermediate Chondrite, veined Cia Ghanbat (27° 32' N, 68° 53' E), Khairpur, Prov- ince of Sind, India. Recorded, 1901, Fedden, Pop. Guide to Geol. Collect., Indian Museum, Calcutta.....	75	75
373	1889	GILGOIN —Crystalline Chondrite Ck Gilgoi Station (30° 35' S, 147° 12' E), 40 miles southeast of Brewarrina, New South Wales, Australia. Recorded, Russell, 1889, Jour. Royal Soc. New South Wales, Vol. 23, p. 47.....	11963	12720
374	1853, Feb. 10	GIRGENTI —White Chondrite, veined Cwa Girgenti (37° 17' N, 13° 34' E), Island of Sicily, Italy. Recorded, Greg, 1854, Philos. Mag., p. 460, London.....	45	74
375	1879, May 17	GNADENFREI —Spherulitic Chondrite Cc Gnadenfrei (51° 41' N, 16° 46' E), Province of Silesia, Prussia. Recorded, Galle, 1879, Jahresber. der Schles. Ges. f. Vaterl. Kult., Bd. 37, pp. 166-169.....	18	29
376	1868	GOALPARA —Ureilite U Goalpara (26° 25' N, 90° 42' E), Province of Assam, India. Described, Haidinger, 1869, Sitzber. Wien. Akad., Bd. 59, II, pp. 665-678.....	2	6
377	1837, July 24	GROSS-DIVINA —Spherulitic Chondrite Cc Gross-Divina (49° 15' N, 18° 44' E), Trentsiner Comitat, Hungary. Recorded, Zipser, 1840, Letter in N. J., pp. 89, 90.	2	5
378	1881, Nov 19	GROSSLIEBENTHAL —White Chondrite, veined Cwa Grossliebenthal (46° 21' N, 28° 14' E), 12 miles northeast of Odessa, Government of Cherson, Russia. Described, Daubrée, 1884, Comptes Rendus, T. 98, pp. 323, 324.....	21	31

AEROLITES.

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No.	Found, Noticed or Described.	NAME OF THE METEORITE, with geographical index of locality.	Chief Piece.	Total Weight.
			Grammes.	
379	1861, June 28	GROSSNAJA —Black Chondrite Cs Grossnaja (43° 21' N, 45° 42' E), Banks of the River Terek, Caucasus Mts., Russia. Described, Rose, 1862, Mon. Ber. Berlin Akad., 1862, p. 186.	76	76
380	1841, Mch. 20	GRÜNEBERG —Gray Chondrite, veined Cga Grüneberg (51° 56' N, 15° 22' E), Province of Slesia, Prussia. Described, Pogg. Ann., 1841, Vol. 52, pp. 495, 496	99	123
381	1892, July 20	GUARENA —Crystalline Chondrite Ck Guarena (38° 44' N, 6° 8' W), Province of Bada- joz, Spain. Described, Calderon, 1892, Act. de la Soc. Esp. de Hist. Nat., Seg. Ser., T. 21.	14	20
382	1851, April 17	GÜTERSLOH —Spherulitic Chondrite, brecciated Ceb Gütersloh (51° 55' N, 8° 21' E), near Minden, Province of Westphalia, Prussia. Described, Dove, 1851, Mon. Ber. Berlin Akad., 1851, pp. 269, 270.	2	3
383	1858, Mch. 28	HARRISON COUNTY —Howarditic Chondrite Cho Harrison County (38° 12' N, 86° 8' W), Indiana, U. S. A. Described, Smith, 1858, Am. Jour. Science, Ser. 2, Vol. 28, pp. 409-411.	1	2
384	1901	HENDERSONVILLE — Hendersonville (35° 19' N, 82° 28' W), Henderson County, North Carolina, U. S. A. Main mass in United States National Museum, Washington, D. C. Undescribed.	23	23
385	1857, April 1	HEREDIA —Spherulitic Chondrite, brecciated Ceb Heredia (10° 1' N, 84° 41' W), 15 miles from San José, Costa Rica, Central America. Described, Harris, 1859, Dissert. Gött., pp. 99, 100.	5	5
386	1869, Jan. 1	HESSLE —Spherulitic Chondrite Cc Hessle (59° 43' N, 17° 25' E), near Upsala, Sweden. Described, Fahnehjelm, 1869, Öfversigt af Vetensk. Akad. Förhandl. Nro. I, pp. 59, 60.	363	407
387	1804, April 4	HIGH POSSIL —White Chondrite Cw High Possil (55° 54' N, 4° 18' W), near Glasgow, Scotland. Described, Tilloch, 1806, Gilb. Ann., Bd. 24, pp. 369-376.	3	4
388	1875, Feb. 12	HOMESTEAD —Gray Chondrite, brecciated Cgb Homestead (41° 39' N, 91° 32' W), and vicinity, Iowa County, Iowa, U. S. A. Described, Hinrichs, 1875, Popular Sci., Sept., 1875	5403	6737

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WARD-COONLEY COLLECTION OF METEORITES.

No.	Found, Noticed or Described.	NAME OF THE METEORITE, with geographical index of locality.	Chief Piece.	Total Weight.
			Grammes.	
389	1825, Sept. 27.	HONOLULU —White Chondrite, veined Cxa Honolulu (21° 17' N, 157° 51' W), Island of Oahu, Hawaiian Islands, U. S. A. Described, Kotzebue, 1823-1826, Reise um die Welt in den Jahren 1823-24-25-26.	11	17
390	1877, May 17	HUNGEN —Gray Chondrite, veined Cga Hungen (50° 28' N, 8° 54' E), Grand Duchy of Hessen, Germany. Described, Buchner, 1877, Mineralogische Mitthei- lungen, 1877, pp. 313-315.	2	2
391	1901, Oct. 21	HVITIS —Spherulitic Chondrite, crystalline Cck Hvittis (61° 10' N, 22° 30' E), Province of Finland, Russia. Described, Borgström, 1903, Die Meteoriten von Hvittis und Marjalathi, pp. 3-44, Helsingfors.	567	567
392	1870, June 17	IBBENBÜHREN —Chladnite Chl Ibbenbüren (52° 17' N, 7° 42' E), Province of Westphalia, Prussia. Described, vom Rath, 1871, Verh. naturh. Ver. Bonn, Bd. 28, pp. 127, 128.	5	5
393	1887, April 17	IHARAOTA —Howarditic Chondrite, veined Cho Iharaota (24° 39' N, 78° 22' E), District of Lalit- pur, Northwestern Provinces, India. Described, Mallet, 1887, Rec. Geol. Surv., Vol. 20, pp. 153, 154.	9	11
394	1891, April 7	INDARCH —Carbonaceous Chondrite, spherulitic Kc Indarch (39° 38' N, 46° 44' W), near Gindoreha, District of Schusseha, Trans-Caucasia, Russia. Described, Siemashko, 1891, Catalogue de la Col- lection des Météorites de Julien de Siemashko, St. Petersburg, 1891, pp. 55, 56.	18060	20035
395	1900	INDIO RICO —Crystalline Chondrite Ck Indio Rico, Province of Buenos Ayres, Argentine, South America.	11	11
396	1879, March	ITAPICURU-MIRIM —Spherulitic Chondrite Cc Itapicuru-mirim (3° 24' S, 43° 50' W), Province of Maranhao, Brazil. Described, Derby, 1888, Meteoritos Brasileiros, Revista do Observatorio, Rio de Janeiro, Brazil.	6	6
397	1889, Dec. 1	JELICA —Amphoterite Am Near Jezevica (43° 54' N, 20° 21' E), District of Cacak, Jelica Mountains, Servia. Described, Doll, 1890, Verh. K. K. geol. Reich- sanst., pp. 70, 77.	82	194

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No.	Found, Noticed or Described.	NAME OF THE METEORITE, with geographical index of locality.	Chief Piece.	Total Weight.
			Grammes.	
398	1894, April 10	JEROME —Spherulitic Chondrite, crystalline Cck Fifteen miles east of Jerome (38° 47' N, 100° 14' W), Smoky Hill River, Gove County, Kansas, U. S. A. Described, Washington, 1898, Am. Jour. Science, Ser. 4, Vol. 5, pp. 447-454.	63	63
399	1873, June	JHUNG —Spherulitic Chondrite Ce Jhung (31° 37' N, 72° 15' E), Punjab States, India. Recorded, Fedden, 1880, Guide to Geol. Collect., in Indian Museum, Calcutta.	7	17
400	1819, June 13	JONZAC —Eukrite Eu Jonzac (45° 26' N, 0° 27' W), Département de la Charente Inferieure, France. Described, Chladni, 1819, Fünfte Fortsetzung, Gilb. Ann., Bd. 63, p. 24.	3	7
401	1876, Feb. 16	JUDESEGERI —Spherulitic Chondrite Ce Judesegeri (13° 20' N, 77° 12' E), District of Tumkur, State of Mysore, India. Recorded, Medicott, 1876, Journal Asiat. Soc. of Bengal, p. 221.	4	4
402	1821, June 15	JUVINAS —Eukrite Eu Juvinas (44° 42' N, 4° 21' E), near Libonnez, Département de l'Ardèche, France. Described, 1821, Extrait d'une lettre de M. Jules de Malbos, cet extrait a été communiqué à l'Académie des Sciences, Ann. Chim. Phys., T. 17, pp. 434-439.	112	294
403	1857, April 15	KABA —Carbonaceous Chondrite K Kaba (47° 22' N, 21° 16' E), southwest of Debreczin, Nord-Bibarer Comitát, Hungary. Described, von Török, 1858, Pogg. Ann., Bd. 105, pp. 329-334.	2	2
404	1858	KAKOWA —Gray Chondrite, veined Cga Kakowa (45° 6' N, 21° 38' E), northwest of Oravitza, Kraschower Comitát, Hungary. Described, Harris, 1859, Dissert. Gött., pp. 22-24.	1	1
405	1840, May 4	KARAKOL —White Chondrite Cw Karakol (about 42° 40' N, 70° 25' E), District of Ajagus, Kirghiz Steppe, Central Asia. Described, Partsch, 1843, Meteoriten, p. 143.	30	30
406	1874, Nov. 26	KERILIS —Gray Chondrite, veined Cga Kerilis (48° 25' N, 3° 26' E), Département des Cotes-du-Nord, France. Described, Daubrée, 1880, Comptes Rendus, T. 91, pp. 28-30.	6	15

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WARD-COONLEY COLLECTION OF METEORITES.

No.	Found, Noticed or Described.	NAME OF THE METEORITE, with geographical index of locality.	Chief Piece.	Total Weight.
			Grammes.	
407	1869, May 22	KERNOUVÉ —Crystalline Chondrite, veined Cka Kernouvé (48° 71' N, 3° 4' W), near Clèguère, Département du Morbihan, France. Described, de Limur, 1869, Comptes Rendus, T. 68, pp. 1338, 1339.	106	106
408	1850, June 13	KESÉN —Spherulitic Chondrite, brecciated Ccb Grave of Buddhist Temple of Choyenji, Village of Kesén, Province of Hondo, Japan. Described, H. A. Ward, Am. Jour. Science, Ser. 3, Vol. 45, pp. 153-155.	1289	1966
409	1873, Sept. 23.	KHAIRPUR —Crystalline Chondrite Ck Khairpur (29° 51' N, 72° 12' E), near Sutlej River, State of Bhawalpur, India. Described, Medicott, 1874, Jour. Asiat. Soc. of Bengal, Vol. 43, Pt. 2, pp. 33-38.	64	64
410	1787, Oct. 12	KHARKOW —White Chondrite, veined Cwa Kharkow (Jigalowka) (50° 17' N, 35° 10' E), 7 miles from Bobrik, Government of Charkow, Russia. Recorded, 1808, Gilb., Ann., Bd. 29, p. 213.	10	10
411	1867, Jan. 19	KHETRIE —Gray Chondrite, brecciated Cgb Khetrie (28° 9' N, 75° 30' E), east of Jhunjhau, Rajputana States, India. Described, Oldham, 1867, Catalogue from Calcutta, p. 8.	6	6
412	1809	KIKINO —White Chondrite, veined Cwa Kikino (55° 17' N, 34° 13' E), District of Wjasemsk, Government of Smolensk, Russia. Described, Eichwald, 1847, Erman's Archiv für vissenschaft. Kunde Russlands, Bd. 5, p. 177.	61	61
413	1844, April 29	KILETER —White Chondrite, veined Cwa Kileter (54° 44' N, 7° 40' W), County Tyrone, Ireland. Recorded, Greg, 1854, Catalogue, Philos. Mag., p. 460.	3	4
414	1899	KISSIJ —Black Chondrite Cs Near Tschuwasschyskye Kissij (55° 20' N, 51° 50' E), District of Tschistopol, Government of Kazan, Russia. Described, Stuckenberg, 1900, Naturf. Ges. in Kasan.	420	420
415	1862, Oct. 7	KLEIN MENOW —Spherulitic Chondrite, crystalline Cck Klein Menow (53° 11' N, 13° 8' E), Grand Duchy of Mecklenburg-Strelitz, Germany. Described, Pogg. Ann., 1862, Bd. 117, pp. 637, 638.	80	145
416	1843, Sept. 16.	KLEIN WENDEN —Crystalline Chondrite Ck Klein Wenden (15° 24' N, 10° 38' E), near Nordhausen, Province of Saxonv, Prussia. Described, Pogg. Ann., 1843, Bd. 60, pp. 157, 158.	2	2

AEROLITES.

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No.	Found, Noticed or Described.	NAME OF THE METEORITE, with geographical index of locality.	Chief Piece.	Total Weight.
			Grammes.	
417	1866, June 9	KNYAHINYA —Gray Chondrite Cg Knyahinya (48° 58' N, 22° 31' E), near Nagy- Berezna, Ungvarer Comitatus, Hungary. Described, Haidinger, 1866, Sitzber., Wien. Akad., Vol. 54, pp. 200-205.	1970	5025
418	1869, May 5	KRÄHENBERG —Howardite Chondrite Cho Krähenberg (49° 20' N, 7° 28' E), near Zwei- brücken, Rhenish Bavaria. Described, Keller, 1869, Palatina, Beibl. z. Pfalzer Zeitung, Vol. 3, Juli, No. 79, p. 318, 1869.	1	1
419	1829, Sept. 29	KRASNOJ-UGOL —Spherulitic Chondrite Ce Krasnoj-Ugol (53° 56' N, 40° 28' E), District of Saposhok, Government of Rasan, Russia. Described, 1830, Pogg. Ann., Bd. 17, pp. 379, 380.	1	1
420	1811, Mch. 12	KULESCHOWKA —White Chondrite, veined Cwa Kuleschowka (50° 43' N, 33° 45' E), District of Romener, Government of Poltava, Russia. Described, Gilbert, 1811, Gilb. Ann., Bd. 38 p. 120.	14	14
421	1879, Jan. 31	LA BECASSE —White Chondrite Cw La Becasse (46° 50' N, 6° 43' E), Commune de Dun-le-Poelier, Département de l'Indre, France. Described, Daubrée, 1879, Comptes Rendus, T. 89, No. 14, p. 597.	21	21
422	1871, June 14	LABOREL —Intermediate Chondrite, brecciated Cib Laborel (44° 20' N, 5° 10' E), Département de la Drôme, France. Described, Brezina, 1895, Wiener Sammlung, p. 249.	11	16
423	1803, April 26	L'AIGLE —Intermediate Chondrite, brecciated Cib L'Aigle (45° 45' N, 0° 38' E) and vicinity, Départe- ment de l'Orne, France. Described, Biot, 1803, Mem. de l'Institut, T. 7, p. 224.	204	645
424	1872, July 23	LANCÉ —Carbonaceous Chondrite, spherulitic Ke Lancé (47° 41' N, 1° 2' E), Département de Loir- et-Cher, France. Described, de Tastes, 1872, Comptes Rendus, T. 75, pp. 273-276.	9	15
425	1897, June 20	LANCON —Intermediate Chondrite, veined Cia Lancon (43° 34' N, 5° 22' E), near Aix en Provence, Département des Bouches-du-Rhône, France.	104	104

WARD-COONLEY COLLECTION OF METEORITES.

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No.	Found, Noticed or Described.	NAME OF THE METEORITE, with geographical index of locality.	Chief Piece.	Total Weight.
			Grammes.	
426	1902	LENORKA — Lenorka, Government of Poltava, Russia. Main Mass in Museum of Kief, Government of Kief, Russia. Undescribed.	2	2
427	1845, Jan. 25	LE PRESOIR —Spherulitic Chondrite Ce Le Pressoir (47° 9' N, 1° 18' E), Commune of Louans, Département d'Indre-et-Loire, France. Described, Daubrée, 1881, Comptes Rendus, T. 92, pp. 984, 985.	9	9
428	1857, Oct. 1	LES ORMES —White Chondrite Cw Les Ormes (47° 51' N, 3° 15' E), near Joigny, Département de l'Yonne, France. Described, Séguier, 1857, l'Institut, T. 25, p. 363.	1	1
429	1896, April 13	LESVES —White Chondrite Cw Lesves (50° 72' N, 4° 33' E), Province of Namur, Belgium. Described, Renard, 1896, Bull. Acad. Royal Bel- gique, 3, 31, No. 6, pp. 654-663.	32	32
430	1845, July 14	LE TEILLEUL —Howardite Ho La Vivionnière (48° 32' N, 0° 53' W), Commune of Le Teilleul, Département de la Manche, France. Described, Daubrée, 1879, Comptes Rendus, T. 88, pp. 544-547.	5	14
431	1813	LIMERICK —Gray Chondrite, brecciated Cgl Adare (52° 31' N, 8° 42' W) and vicinity, County of Limerick, Ireland. Described, Tennant, 1814, Jour. Pharm., p. 211, Sept., 1814.	52	52
432	1854, Sept. 5	LINUM —White Chondrite Cw Linum (52° 46' N, 12° 52' E), near Fehrbellin, Province of Brandenburg, Prussia. Described, Rose, 1854, Berichte Berlin. Akad. der Wissensch., pp. 525-527.	1	1
433	1808, Sept. 3	LISSA —White Chondrite, brecciated Cwb Lissa (50° 12' N, 14° 54' E), District of Bunzlau, Bohemia. Described, v. Schreibers, 1808, Gilb. Ann., Bd. 30, pp. 358-361.	156	198
434	1839, Feb. 13	LITTLE PINEY —Spherulitic Chondrite Ce Pine Bluff (37° 55' N, 92° 5' W), on Gasconade River, ten miles southwest of Little Piney, Pulaski County, Missouri, U. S. A. Described, Herrick, 1839, Am. Jour. Science, Ser. 1, Vol. 37, pp. 385, 386.	2	3
435	1820, July 12	LIXNA —Gray Chondrite, veined Cga Lasdany (56° 0' N, 26° 25' E), near Lixna, Province of Kurland, Russia. Described, Plater-Seiberg, 1820, Allg. Deutsche Zeitung für Russland, No. 180, July 28, 1820, Mitau, Kurland.	61	72

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No.	Found, Noticed or Described.	NAME OF THE METEORITE, with geographical index of locality.	Chief Piece.	Total Weight.
			Grammes.	
436	1891	LONG ISLAND —Intermediate Chondrite, veined Cia Three miles west of Long Island (39° 56' N, 99° 34' W), Phillips County, Kansas, U. S. A. Recorded, Farrington, 1895, Catal. of Meteorites, Field Col. Museum, Pub. No. 3, p. 59.....	9270	15466
437	1768, Sept. 13.	LUCÉ —White Chondrite, veined Cwa Lucé-en-Maine (47° 52' N, 0° 30' E), Département de la Sarthe, France. Described, Bachelay, 1769, Hist. de l'Acad. Royale, pp. 20, 21.....	3	5
438	1869, Oct. 6	LUMPKIN —Spherulitic Chondrite, crystalline Cck Twelve miles southwest (31° 54' N, 84° 57' W), of Lumpkin, Stewart County, Georgia, U. S. A. Described, Smith, 1870, Am. Jour. Science, Ser. 2, Vol. 50, p. 293.....	3	3
439	1889, April 3	LUNDSGARD —White Chondrite Cw Lundsgard (55° 25' N, 15° 52' E), Parish of Ljungby, Lan of Malmöhus, Sweden. Described, Svedmark, 1889, Geol. Fören i Stockholm Förh., 1889, Vol. XI, pp. 245, 246.....	34	55
440	1813, Dec. 13	LUOTOLAKS —Howardite Ho Luotolaks (61° 13' N, 27° 49' E), near Frederikshavn, Government of Viborg, Finland, Russia. Described, Scherer, 1815-'16, Bull. Petersburg Akad., Vol. 7.....	1	3
441	1753, Sept. 7	LUPONNAS —Intermediate Chondrite, brecciated Cib Luponnas (46° 14' N, 4° 59' E), sixteen miles from Pont de Veyle, Département de l'Aine, France. Described, Jerome de la Lande, 1756, Etrennes historiques de la Province de Bresse, p. 32.....	15	15
442	1836, Nov. 11	MACAO —Intermediate Chondrite, veined Cia Macao (5° 10' S, 36° 40' W), mouth of Rio Assu, Province of Rio Grande do Norte, Brazil. Described, Berthon, 1837, Comptes Rendus, T. 5, p. 211.....	11	11
443	1870	MAC KINNEY —Black Chondrite Cs Eight miles southwest (33° 9' N, 96° 45' W), of MacKinney, Collin County, Texas, U. S. A. Described, v. Hauer, Ann. Hof-Mus., Vol. 10, p. 34.....	46773	51230
444	1896, Feb. 10	MADRID —White Chondrite, veined Cwa Madrid (40° 25' N, 3° 43' W), Province of Madrid, Spain. Described, Calderon, 1896, Le Naturaliste, 2, 18, No. 216, pp. 55, 56.....	1	1

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No.	Found, Noticed or Described.	NAME OF THE METEORITE, with geographical index of locality.	Chief Piece.	Total Weight.
			Grammes.	
445	1886, Nov. 10	MAËMÊ —Intermediate Chondrite, veined Cia Maëmê Hislugari (about 31° 45' N, 130° 36' E) Province of Satsuma, Japan. Recorded, Clark, 1888, Am. Jour. Science, Ser. 3, Vol. 35, p. 264.....	158	243
446	1850	MAINZ —Intermediate Chondrite, veined Cia Near Mainz (50° 0' N, 8° 16' E), Grand Duchy of Hessen, Germany. Described, Seelheim, 1857, Jahrb. d. Ver. für Naturk. in Nassau, Heft 12 p. 405.....	13	39
447	1879	MAKARIWA —Gray Chondrite brecciated Cgb Makariwa (46° 20' S, 168° 25' E), near Invercargill, New Zealand. Described, Ulrich, 1893, Proc. Royal Soc., Vol. 53, pp. 54-64.....	3	3
448	1863, Dec. 22	MANBHOOM —Amphoterite Am Manbhoom (23° 52' N, 86° 35' E), Bengal Presidency, India. Described, Haidinger, 1864, Sitzber. Wien. Akad., Vol. 50, pp. 241-246.....	18	18
449	1843, June 29	MANEGAUM —Chladnite Chl Manegaum (17° 59' N, 75° 37' E), District of Kandeish, India. Described, Abbott, 1844, Jour. Asiat. Soc. of Bengal, Vol. 13, pp. 880-886.....	1	1
450	1847, Feb. 25	MARION —White Chondrite, veined Cwa Nine miles from Marion (Hartford) (41° 57' N, 91° 34' W), Linn County, Iowa, U. S. A. Described, Shepard, 1847, Am. Jour. Science, Ser. 2, Vol. 4, pp. 288, 429.....	60	188
451	1848, July 4	MARMANDE —Spherulitic Chondrite Ce Montignac (44° 31' N, 0° 10' E), near Marmande, Département de Lot-et-Garonne, France. Described, Greg, 1862, Philos. Mag., Vol. 24, p. 540.....	2	2
452	1835, Jan. 31	MASCOMBES —White Chondrite Cw Mascombes (45° 20' N, 1° 52' E), Département de la Corrèze, France. Described, Daubrée, 1864, Comptes Rendus, T. 58, pp. 229, 230.....	8	15
453	1803, Dec. 13	MÄSSING —Howardite Ho Mässing (48° 27' N, 12° 36' E), Landgericht Eggenfeld, Bavaria. Described, Blumenbach, 1804, Voigts Mag. für Naturkunde, Bd. 7, p. 233.....	1	2

AEROLITES.

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No.	Found, Noticed or Described.	NAME OF THE METEORITE, with geographical index of locality.	Chief Piece.	Total Weight.
			Grammes.	
454	1768, Nov. 20	MAUERKIRCHEN —White Chondrite Cw Near Mauerkirchen (48° 12' N, 13° 7' E), Upper Austria. Described, Chladni, 1803, <i>Gilb. Ann.</i> , Vol. 15, pp. 310, 316, 317.....	42	73
455	1801, Dec. 22	MAURITIUS —Howarditic Chondrite Cho Isle aux Tonneliers (20° 18' S, 57° 35' E), northwestern Coast of Island of Mauritius, Indian Ocean. Recorded, Bory de Saint-Vincent, 1804, <i>Voyage dans les quatre principales îles des mers d'Afrique fait par ordre du gouvernement pendant les années neuf et dix de la République</i> , 1801 and 1802, T. 3, pp. 254-262.....	6	6
456	1897, May 19	MEUSELBACH —Spherulitic Chondrite, crystalline, veined Ceka Meuselbach (50° 39' N, 10° 5' E), Amt. Gehren, Principality of Schwartzburg-Rudolstadt, German Empire. Described, Linck, 1899, <i>Annalen des K. K. Hofmuseums</i> , p. 103, Wien.....	3	3
457	1859, April 4	MEXICO —Gray Chondrite, brecciated Cgb Mexico (15° 10' N, 120° 40' E), Province of Pampanga, Island of Luzon, Philippine Archipelago. Described, Llanos, 1859, <i>Obs. y diseño de los aeros. caído en Pampanga</i> , 4, VI, 1859.....	2	2
458	1852, Sept. 4	MEZŐ-MADARAS —Gray Chondrite, brecciated Cgb Near Mező-Madaras (46° 37' N, 24° 19' E), Province of Transylvania, Austria. Described, Knöpfler, 1852, <i>Verh. d. Siebenbürg. Ver.</i> , Vol. 3, pp. 153, 154.....	331	497
459	1827, Feb. 16	MHOW —Intermediate Chondrite Ci Mhow (25° 55' N, 83° 37' E), Azamgarh District, Northwestern Provinces, India. Described, Edinburgh Jour. Science, July, 1828, p. 172.....	2	2
460	1851, Mch. 14	MIDDLESBOROUGH —White Chondrite Cw Pennymans Siding (54° 35' N, 1° 14' W), near Middlesborough, County of York, England. Recorded, Herschel, 1881, <i>Notice of the fall of an Aerolite</i> , Newcastle Daily Chronicle, March 30, 1881. Newcastle-on-Tyne, England.....	1	1
461	1889, June 18	MIGHEI —Carbonaceous Chondrite K Mighei (38° 56' N, 46° 9' E), District of Elisabethgrad, Government of Kherson, South Russia. Described, von Siemashko, 1890, <i>Nature</i> , Vol. 41, p. 272.....	2330	2357

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No.	Found, Noticed or Described.	NAME OF THE METEORITE, with geographical index of locality.	Chief Piece.	Total Weight.
			Grammes.	
462	1842, April 26	MILENA —White Chondrite Cw Pusinsko Selo (46° 11' N, 16° 4' E), four miles south of Milena, Warasdiner Comitatus, Province of Croatia, Austrian Empire. Described, Koecevar, <i>Pogg. Ann.</i> , Vol. 56, pp. 349, 350.....	10	14
463	1888	MINAS GERAES —White Chondrite, veined Cwa Province of Minas Geraes, Brazil. Described, Derby, 1888, <i>Revista do Observatorio</i> , Rio de Janeiro, 1888, p. 12, Sept.....	4	6
464	1890, April 10	MISSHOF —Spherulitic Chondrite Cc Manor of Misshof (56° 39' N, 24° 21' E), eight miles west-southwest of Baldohn, Province of Kurland, Baltic Russia. Described, Doss, 1891, <i>Arbeiten des Naturf. Ver.</i> , Riga, N. F., Heft 7.....	176	342
465	1882, Feb. 3	MOCS —White Chondrite, veined Cwa Mocs (46° 48' N, 23° 42' E), and vicinity, near Klausenburg, Province of Transylvania, Austria. Described, Hauer, 1882, <i>Verh. k. k. geol. Reichsanst.</i> , 1882, pp. 77, 78.....	2223	6747
466	1858, Dec. 24	MOLINA —Gray Chondrite, brecciated Cgb Medina (38° 7' N, 1° 10' W), Province of Murcia, Spain. Described, Daubrée and Meunier, 1868, <i>Comptes Rendus</i> , T. 66, pp. 639-642.....	33	33
467	1849, Mch. 31	MONROE —Gray Chondrite, veined Cga Cabarrus County (35° 13' N, 80° 32' W), eighteen miles north of Monroe, Union County, North Carolina, U. S. A. Described, Gibbon, 1850, <i>Am. Jour. Science</i> , Ser. 2, Vol. 9, pp. 143-146.....	80	99
468	1846, May 8	MONTE MILONE —White Chondrite, brecciated Cwb Monte Milone (43° 16' N, 13° 21' E), Potenza River, ten miles from Macerata, Province of Rome, Italy. Recorded, 1846, <i>L'Institut</i> , T. 14, p. 340.....	2	11
469	1838, July 22	MONTLIVAUT —White Chondrite Cw Val Cul de Four (47° 40' N, 1° 25' E), Département de Loir-et-Cher, France. Described, Daubrée, 1873, <i>Comptes Rendus</i> , T. 76, pp. 314, 315.....	3	5
470	1808	MOORADABAD —White Chondrite Cw Mooradabad (28° 36' N, 78° 45' E), Northwestern Provinces, India. Recorded, 1828, <i>Edinburgh Jour. Science</i> , p. 172, July, 1828.....	1	1

AEROLITES.

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No.	Found, Noticed or Described.	NAME OF THE METEORITE, with geographical index of locality.	Chief Piece.	Total Weight.
			Grammes.	
471	1810, Aug.	MOORESFORT —Spherulitic Chondrite, brecciated Ccb Moorefort (57° 27' N, 8° 17' W), County of Tipperary, Ireland. Described, Higgins, 1811, Philos. Magaz., Vol. 38, pp. 262-268.	13	30
472	1826, May 19	MORDVINOVKA —White Chondrite Cw Mordvinovka (48° 32' N, 35° 52' E), thirty miles southeast of Pavlograd, Government of Ekaterinoslaw, Southern Russia. Described, Arch. des Découvertes, 1826, p. 186.	87	129
473	1875, Sept.	MORNANS —Gray Chondrite, veined Cga Mornans (44° 36' N, 5° 8' E), Département de la Drôme, France. Described, Gregory, 1887, Geol. Mag., Ser. 3, Vol. 4, Nr. 12.	12	12
474	1868, Dec. 22	MOTEEKA-NUGLA —Crystalline Chondrite Ck Biana District (27° 15' N, 77° 32' E), State of Bhurtpore, Rajputana States, India. Described, 1880, Popular Guide to Geol. Collections in Indian Museum, Calcutta.	7	12
475	1868, Feb. 29	MOTTA DI CONTI —Spherulitic Chondrite Ce Motta di Conti (45° 8' N, 77° 22' E), and vicinity, District of Casale, Province of Piedmont, Italy. Described, Goirau, Bertolio, Zannetti e Musso, 1868, Sopra gli Aeroliti caduti il giorno 29 febbraio, 1868, nel territorio di Villanova e Motta dei Conti, Piemonte, circondario di Casale, Torino, 1868.	67	67
476	1899, Jan. 25	MOUNT ZOMBA —White Chondrite, veined Cwa Zomba (15° 6' S, 35° 26' E), Nyassa Land, British Central Africa. Main mass in British Museum, London.	18	18
477	1902, July 17	MOUNT BROWNE —Spherulitic Chondrite Ce Mount Browne (29° 42' S, 142° 0' E), Evelyn County, New South Wales, Australia. Described, Card, 1903, Rec. Geol. Survey of New South Wales, Vol. 7, Pt. 3, p. 218.	226	226
478	1865, Sept. 21.	MUDDOOR —Spherulitic Chondrite Ce Muddoor (12° 37' N, 77° 6' E), near Annay Doddi, State of Mysore, Madras Presidency, India. Described, Bowring, 1865, Proc. Asiatic Soc. of Bengal, p. 195.	6	10
479	1875, April 24	NAGERIA — Nageria (27° 8' N, 78° 5' E), District of Agra, Northwestern Provinces, India. Recorded, Medlicott, 1876, Proc. Journal Asiatic Soc., pp. 222, 223.	2	2

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No.	Found, Noticed or Described.	NAME OF THE METEORITE, with geographical index of locality.	Chief Piece.	Total Weight.
			Grammes.	
480	1895, May 9	NAGY-BOROVE —Gray Chondrite Cg Nagy-Borove (49° 2' N, 19° 30' E), Liptoe Comitát, Hungary. Recorded, Brezina, 1895, Wiener Sammlung, p. 307.	184	210
481	1886, Jan. 27	NAMMIANTHAL —Spherulitic Chondrite, veined Cca Nammianthal (11° 17' N, 79° 12' E), District of South Arcot, Madras Presidency, India. Described, Medlicott, 1886, Rec. Geol. Surv. of India, Vol. 19, p. 268.	64	101
482	1825, Feb. 25	NANJEMOY —Spherulitic Chondrite Cc Nanjemoy (38° 25' N, 77° 12' W), Charles County, Maryland, U. S. A. Described, Carver, 1825, Am. Jour. Science, Ser. 1, Vol. 9, pp. 351-353.	82	82
483	1890, June 6	NAWAPALI —Carbonaceous Chondrite K Nawapali (21° 30' N, 84° 10' E), Sambalpur District, Central Provinces, India. Recorded, Fedden, 1901, Guide to Geol. Collect., in Indian Museum, Calcutta.	2	2
484	1864, April 12.	NERFT —Intermediate Chondrite, veined Cia Manor of Nerft (56° 10' N, 25° 20' E), and vicinity, Province of Kurland, Baltic Russia. Described, Grewingk and Schmidt, 1864, Arch. für Naturk. Liv. Ehst. u. Kurl., Ser. 1, Vol. 3, p. 554.	62	83
485	1897	NESS COUNTY —Intermediate Chondrite, brecciated Cib Kansada, Franklinville, Wellmansville (38° 20' N, 99° 37' W), and other localities in Ness County, Kansas, U. S. A. Described, H. L. Ward, Am. Jour. Science, Ser. 4, Vol. 7, p. 233.	3450	13267
486	1860, May 1	NEW CONCORD —Intermediate Chondrite, veined Cia New Concord (39° 58' N, 81° 44' W) and vicinity, Guernsey County, Ohio, U. S. A. Described, Andrews, Evans, Johnson and Smith, 1860, Am. Jour. Science, Ser. 2, Vol. 30, pp. 103-111.	3258	4257
487	1883, Oct. 3	NGAWI Ccn Gentoeng (7° 23' S, 111° 25' E) and vicinity, Department of Ngawi, Residency of Madioen, Central Java. Described, v. Baumhauer, 1884, Arch. Néerl des Sciences exactes et naturelles, Vol. 19, Part II, pp. 175-185.	9	10

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No.	Found, Noticed or Described.	NAME OF THE METEORITE, with geographical index of locality.	Chief Piece.	Total Weight.
			Grammes.	
488	1823, Aug. 7	NOBLEBOROUGH —Howardite Ho Near Nobleborough (44° 4' N, 69° 28' W), Lincoln County, Maine, U. S. A. Described, Cleaveland, 1824, Am. Jour. Science, Ser. 1, Vol. 7, pp. 170, 171.....	19	19
489	1879, July 1	NOGOYA —Carbonaceous Chondrite K Nogoya, near Concepcion (32° 24' S, 59° 46' W), Province of Entre Rios, Argentina. Described, Websky, 1882, Stützber. Berlin Akad., 1882, pp. 395, 396.....	10	10
490	1886, Sept. 22	NOWO-UREI —Ureilite U Nowo-Urei (54° 32' N, 43° 41' E) and vicinity, Government of Penza, Province of Kazan, Russia. Recorded, von Jerofeieff and von Latschinoff, 1887, Nature, Vol. 37, pp. 110, 111.....	49	49
491	1851, Nov. 5	NULLES —Gray Chondrite, brecciated Cgb Nulles (41° 38' N, 0° 45' W) and vicinity, thirty- two miles northwest of Tarragona, Province of Tarragona, Spain. Described, Luis de la Escosura, 1852, Revista Minera, Vol. 3, pp. 246, 247.....	3	8
492	1895	OAKLEY —Crystalline Chondrite Ck Fifteen miles southwest (38° 55' N, 101° 0' W) of Oakley, Logan County, Kansas, U. S. A. Described, Preston, 1900, Am. Jour. Science, Ser. 4, Vol. 9, pp. 410-412.....	6579	8910
493	1871	OCZERETNA —Gray Chondrite, veined Cga Oczeretna (49° 14' N, 29° 3' E), near Lipowitz, Government of Kief, Southern Russia. Recorded, Brezina, 1885, Wiener Sammlung, p. 182.....	3	3
494	1855, May 11	OESSEL —White Chondrite Cw Estate of Kaande (58° 30' N, 22° 2' E), Bay of Piddul, Island of Oesel, Province of Livonia, Baltic Russia. Described, Goebel, 1856, Arch. Naturk. Liv. Ehst u Kurl., Vol. 1, pp. 477-482.....	47	73
495	1730	OGI —White Chondrite Cw Temple of Tukuchi-in Gomado (about 33° 10' N, 130° 0' E), Ogi, Province of Hizen, Japan. Described, Divers, 1882, Transact. Asiatic Soc. of Japan, Vol. 10, Pt. 2, p. 199.....	22	22
496	1857, Mch. 11	OHABA —Gray Chondrite, veined Cga Veresegyhaza (46° 4' N, 23° 50' E), near Ohaba, District of Blasendorf, Province of Transyl- vania, Austria. Described, Neugeboren, 1857, Verh. und Mittheil. des Siebenb. Vereins für Naturw., Bd. 8, p. 229, Hermanstadt.....	6	6

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No.	Found, Noticed or Described.	NAME OF THE METEORITE, with geographical index of locality.	Chief Piece.	Total Weight.
			Grammes.	
497	1833, Dec. 22	OKNINY —Gray Chondrite, brecciated Cgb Okainach (50° 6' N, 25° 40' E), District of Krenenetz, Government of Volhynia, Russia. Described, Wtorschetzki, 1842, Schriften der Russ. K. Ges. für das ges. Min. Bd. 1, Pt. 2, pp. 72, 73.....	10	10
498	1864, May 14	ORGUEIL —Carbonaceous Chondrite K Orgueil (43° 44' N, 1° 24' E) and vicinity, Départe- ment de Tarn-et-Garonne, France. Described, Rose, 1863, Meteoriten, pp. 126, 156..	32	62
499	1868, July 11	ORNANS —Ornansite Cco Lavaux (47° 6' N, 6° 9' E), near Ornans, Départe- ment du Doubs, France. Described, Pisani, 1868, Comptes Rendus, Vol. 67, pp. 363-665.....	49	62
500	1872, Aug. 31	ORVINIO —Orvinite Co Orvinio (42° 8' N, 12° 57' E), and vicinity, Prov- ince of Perugia, Italy. Described, Ferrari, 1872, Ricerche fisico-astrono- miche intorno all' uranolito caduto nell' agro Romano il 31 di Agosto, Roma.....	21	38
501	1886, Oct. 26	OSHIMA — Oshima Mura (about 31° 3' N, 130° 0' E), Ysa Gori, Province of Satsuma, West Coast of Japan. Main mass in Imperial Museum of Uyeno, Japan. Undescribed.....	104	104
502	1896, April 9	OTTAWA —Howarditic Chondrite Cho Ottawa (38° 37' N, 95° 18' W), Franklin County, Kansas, U. S. A. Described, 1896, Ottawa Weekly Times, April 16th, 1896.....	39	111
503	1881, June 18	PACULA —White Chondrite, brecciated Cwb Three miles east of Pacula (21° 3' N, 99° 18' W), District of Jacala, State of Hidalgo, Mexico. Described, Castillo, 1889, Catalogue Deser. des Météorites du Mexique, pp. 12, 15.....	92	180
504	1901	PALEZIEUX —Spherulitic Chondrite, crystalline Cck Forest of Chervettaz (46° 33' N, 6° 50' E), near Palzieux, Canton of Lausanne, Switzerland. Recorded, Renevier, 1901, Rapport de Musée Géologique à Lausanne, Suisse.....	26	26
505	1857, Feb. 28	PARNALLEE —Gray Chondrite, veined Cga Parnallee (9° 14' N, 78° 21' E) and vicinity, six- teen miles south of Madura, Presidency of Madras, India. Described, Taylor, 1857, Trans. Geog. Soc., Bom- bay.....	486	665

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No.	Found, Noticed or Described.	NAME OF THE METEORITE, with geographical index of locality.	Chief Piece.	Total Weight.
			Grammes.	
506	1882, Aug. 2	PAVLOVKA —Howardite Ho Pavlovka (51° 36' N, 42° 20' E), near River Karai, District of Balaschew, Government of Sara- towsk, Russia. Described, Tschernyschow, 1883, Zeitschr. d. d. Geol. Ges., Vol. 35, pp. 190-192.....	94	167
507	1855, Aug. 5	PETERSBURG —Howardite Ho Two miles west of Petersburg (35° 20' N, 86° 33' W), Lincoln County, Tennessee, U. S. A. Described, Smith, 1855, in Safford's Report on Geology of Tennessee, Nashville, Tennessee....	195	224
508	1887, Sept. 12	PHU LONG —Spherulitic Chondrite, veined Cca Phu Long (11° 30' N, 108° 30' E), Canton of Binh Chanh, French Indo-China, Asia. Described, Delauney, 1887, Comptes Rendus, T. 105, p. 1294.....	11	11
509	1863, Aug. 8	PILLSTFER —Crystalline Chondrite Ck Pillstfer (58° 40' N, 25° 44' E), and vicinity, Dis- trict of Fellin, Province of Kurland, Western Russia. Described, Rose, 1863, Mon.-Ber. Berlin, Akad., pp. 441-443.....	35	68
510	1887	PIPE CREEK —Crystalline Chondrite, veined Cka Near Pipe Creek (29° 43' N, 98° 56' W), Branderia County, thirty-five miles southwest of San Antonio, Texas, U. S. A. Described, Ledoux, 1888-89, Trans. of New York Acad. of Science, Vol. 8, pp. 186, 187.....	3596	3965
511	1882, Aug. 29	PIRGUNJE —White Chondrite, veined Cwa Pirgunje (25° 36' N, 88° 40' E), Dinagepur, Presi- dency of Bengal, India. Recorded, Hauer, 1892, Ann. Hofmuseum, Bd. 7, p. 73.....	4	4
512	1884, Feb. 9	PIRTHALLA —Spherulitic Chondrite, brecciated Ceb District of Hissar (29° 35' N, 79° 0' E), Punjab Provinces, India. Described, Medlicott, 1885, Rec. Geol. Surv. of India, Vol. 18, p. 148.....	1	1
513	1723, June 22	PLOSKHOKWITZ —Spherulitic Chondrite, brecciated Csb Ploschkowitz (50° 41' N, 14° 39' E) and vicinity, District of Bunzlau, Bohemia. Described, Rost., 1725, Sammlung von Natur und Medecin, etc., Geschichten (Breslauer Samml.), 31 Versuch, Winter Quartal, 1725, pp. 44-47..	6	6
514	1868, June 30	PNOMPEHN —White Chondrite Cw Pnompehn (11° 38' N, 104° 52' E), State of Cam- bodia, French Indo-China. Recorded, 1868, Report on Luminous Meteors, British Assoc. Adv. Science, pp. 276, 277.....	1	1

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WARD-COONLEY COLLECTION OF METEORITES.

No.	Found, Noticed or Described.	NAME OF THE METEORITE, with geographical index of locality.	Chief Piece.	Total Weight.
			Grammes.	
515	1819, Oct. 13	POHLITZ —White Chondrite, veined Cwa Pohlitz (50° 57' N, 12° 2' E), near Gera, Princei- pality of Reuss-Gera, Germany. Described, Braun, 1819, Gilb. Ann., Vol. 63, pp. 217-228.....	5	11
516	1893	PRAIRIE DOG CREEK —Spherulitic Chondrite, crystalline Cck Prairie Dog Creek (39° 42' N, 100° 24' W), Decatur County, Kansas. Described, Weinschenk, 1895, Tschermak's Min. und Petrog. Mittheil, Wien, 1894-95, Vol. 14, pp. 473-475.....	157	157
517	1893, Feb. 13	PRICETOWN —White Chondrite Cw Pricetown (33° 11' N, 83° 44' W), Highland County, Ohio, U. S. A.....	4	4
518	1863, Mch. 16	PULSORA —Intermediate Chondrite, brecciated Cib Pulsora (23° 22' N, 75° 7' E), six miles northeast of Futlam, State of Indore, India. Described, Buchner, 1869, Vierter Nachtrag, Pogg. Ann., Bd. 136, pp. 454, 455.....	5	5
519	1868, Jan. 30	PULTUSK —Gray Chondrite, brecciated Cgb Pultusk (52° 42' N, 21° 23' E), and vicinity, Province of Poland, Russia. Described, Szymanski, 1868, Briefl. Mitt. N. J., 1868, p. 326.....	9521	15442
520	1857, Dec. 27	QUENGGOUK —Spherulitic Chondrite Ce Quenggouk (17° 20' N, 96° 28' W), near Bassein, Province of Lower Burmah, India. Described, Haidinger, 1860, Sitzber. Wien. Akad., Vol. 41, pp. 750, 751.....	302	302
521	1851	QUINCAY —Gray Chondrite, brecciated Cgb Quincay (46° 25' N, 0° 24' E), Département de la Vienne, France. Described, Meunier, 1884, Meteorites, p. 241....	8	11
522	1878, Nov. 20	RAKOWKA —Intermediate Chondrite Ci Rakowka (about 54° 10' N, 37° 41' E), Govern- ment of Tula, Russia. Described, Trautschold, 1879, Briefl. Mitt. N. J., 1879, pp. 144, 145.....	163	163
523	1824, June 15	RENAZZO —Black Chondrite Cs Renazzo (44° 47' N, 11° 18' E), near Cento, Province of Ferrara, Italy. Described, Orioli, 1824, Nuova Collezione di opusculi scientifici di Bologna, Vol. 3, p. 151..	4	7

AEROLITES.

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No.	Found, Noticed or Describ d.	NAME OF THE METEORITE, with geographical index of locality.	Chief Piece.	Total Weight.
			Grammes.	
524	1828, June 4	RICHMOND —Spherulitic Chondrite crystalline Cck Seven miles southwest (37° 29' N, 77° 28' W) of Richmond, Henrico County, Virginia, U. S. A. Described, Cocke, 1829, Am. Jour. Science, Ser. 1, Vol. 15, pp. 195, 196.....	10	15
525	1876, Dec. 21	ROCHESTER —Spherulitic Chondrite Ce Three miles northwest of Rochester (41° 5' N, 86° 13' W), Fulton County, Indiana, U. S. A. Described, Newton, 1877, Am. Jour. Science, Ser. 3, Vol. 13, pp. 166, 167.....	1	2
526	1871	RODA —Rodite Ro Four miles from Huesca (42° 7' N, 0° 18' W), Province of Huesca, Spain. Described, Pisani, 1874, Comptes Rendus, T. 79, pp. 1507-1509.....	25	25
527	1866	RUSHVILLE —Gray Chondrite Cg Five miles south of Brookville (39° 22' N, 85° 3' W), Franklin County, Indiana, U. S. A. Recorded, Wülfing, 1897, Die Meteoriten in Sammlungen, p. 398. Undescribed.....	15	23
528	1863, Jan. 28	SAINT CAPRAIS DE QUINSAC —Intermediate Chondrite Ci Saint Caprais de Quinsac (44° 40' N, 0° 30' W), Département de la Gironde, France. Described, Lespault et L. Forquignon, 1883, Comptes Rendus, T. 97, pp. 1022, 1023.....	4	4
529	1855, June 7	SAINT DENIS WESTREM —Spherulitic Chondrite, veined Cea Saint Denis Westrem (51° 4' N, 3° 40' E), near Ghent, Belgium. Described, Duprez, 1855, Bull. Acad. Belgique, Vol. 22, pp. 54-58.....	7	13
530	1866, May 30	SAINT MESMIN —Intermediate Chondrite, brecciated Cib Saint Mesmin (48° 26' N, 3° 55' E), near Troyes, Département de l'Aube, France. Described, Ray, 1866, Mém. Soc. Académique de l'Aube, Vol. 30.....	23	42
531	1898, Nov. 15	SALINE —Spherulitic Chondrite, crystalline Cck Saline Township (39° 22' N, 100° 27' W), Sheridan County, Kansas, U. S. A. Described, Farrington, 1902, Science, Vol. 16, pp. 67, 68.....	1445	2489
532	1798, Mch. 12	SALLES —Intermediate Chondrite, veined Cia Sales (46° 3' N, 4° 37' E), near Lyon, Département du Rhone, France. Described, de Drée, 1802, Jour. Phys., T. 56, pp. 383-389.....	4	13

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WARD-COONLEY COLLECTION OF METEORITES.

No.	Found, Noticed or Described.	NAME OF THE METEORITE, with geographical index of locality.	Chief Piece.	Total Weight.
			Grammes.	
533	1869	SALT LAKE CITY —Gray Chondrite, brecciated Cgh Between Salt Lake City and Echo (40° 58' N, 111° 25' W), Utah, U. S. A. Described, Dana and Penfield, 1886, Am. Jour. Science, Ser. 3, Vol. 32, pp. 226-229.....	7	7
534	1887	SAN EMIGDIO —Spherulitic Chondrite Ce San Emigdio Range, San Bernardino County, California, U. S. A. Described, Merrill, 1888, Proc. U. S. National Museum, pp. 161-167.....	24	27
535	1887	SAN PEDRO SPRINGS —White Chondrite Cw San Pedro Springs (29° 27' N, 98° 27' W), near San Antonio, Bexar County, Texas, U. S. A. Recorded, Brezina, 1896, Wiener Sammlung, p. 396.....	3	3
536	1868, Sept. 7	SAUGUIS —White Chondrite, veined Cwa Sauguis-Saint-Etienne (43° 10' N, 1° 21' W), Département des Basses-Pyrénées, France. Described, Daubrée, 1868, Comptes Rendus, T. 67, pp. 873-877.....	3	11
537	1894, July 27	SAWTSCHENSKOJE —Spherulitic Chondrite, crystalline Cck Sawtschenskoje (46° 52' N, 29° 36' E), District of Tiraspol, Government of Cherson, Russia. Described, Prendel, 1895, Katalog der Meteoriten Sammlung in Odessa, Feb., 1895.....	25	25
538	1715, April 11	SHELLIN —Intermediate Chondrite, veined Cia Schellin (53° 20' N, 15° 0' E), near Stargard, Province of Pomerania, Prussia. Described, Gilbert, 1822, Gilb. Ann., Bd. 71, pp. 213-223.....	1	1
539	1814, Jan. 23	SCHOLOKOV —White Chondrite, veined Cwa Scholokov (48° 15' N, 36° 0' E), Government of Ekaterinoslaw, Russia. Recorded, Chladni, 1815, Neues Verzeichniss, Gilb. Ann., Bd. 50, p. 256.....	5	5
540	1846, Dec. 25	SCHÖNENBERG —White Chondrite, veined Cwa Schönenberg (48° 9' N, 10° 26' E), northwest of Pfaffenhausen, Province of Schwaben, Bavaria. Described, Augsburg. Allg. Zeitung vom 1 Jan., 1847.....	24	24
541	1871, May 21	SEARSMONT —Spherulitic Chondrite Ce Searsmont (44° 22' N, 69° 12' W), Waldo County, Maine, U. S. A. Described, Shepard, 1871, Am. Jour. Science, Ser. 3, Vol. 2, pp. 132-136.....	5	5

AEROLITES.

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No.	Found, Noticed or Described.	NAME OF THE METEORITE, with geographical index of locality.	Chief Piece.	Total Weight.
			Grammes.	
542	1853, Mch. 6	SEGOWLIE —Crystalline Chondrite Ck Fourteen miles east of Bettiah (26° 45' N, 84° 45' E), District of Chumparun, State of Bengal, India. Described, Sherwill, 1854, Journ. Asiatic Soc. of Bengal, Vol. 23, pp. 746, 747.....	166	166
543	1773, Nov. 13	SENA —Gray Chondrite, brecciated Cgb Sena (41° 36' N, 0° 0' E), District of Sigena, Province of Huesca, Spain. Described, Proust, 1803, Journ. Phys., Vol. 60, pp. 185-202.....	3	4
544	1865, Aug. 25	SENHADJA —White Chondrite Cwa Senhadja (36° 15' N, 3° 42' E), near Aumale, Brook of Oued Soufflat, Province of Alger, Algeria, North Africa. Described, Daubrée, 1866, Comptes Rendus, T. 62, pp. 72-78.....	282	282
545	1818, June	SERES —Gray Chondrite Cg Seres (41° 5' N, 23° 34' E), Province of Macedonia, Turkey. Described, Stedler, 1847, Oestreich. Bl. für Lit., Nr. 86, p. 343.....	39	46
546	1862, Oct. 1	SEVILLA —Howarditic Chondrite Cho Sevilla (37° 22' N, 5° 52' W), Province of Sevilla, Spain. Described, Buchner, 1865, Zweiter Nachtrag. Pogg. Ann., Bd. 124, p. 591.....	1	1
547	1874, May 11	SEVRUKOWO —Black Chondrite Cs Sevrukowo (50° 9' N, 36° 34' E), District of Belgorod, Government of Kursk, Central Russia. Described, Daubrée, 1875, Comptes Rendus, T. 81, pp. 661-663.....	140	191
548	1850, Nov. 30	SHALKA —Chladnite Chl Shalka (23° 8' N, 87° 24' E), near Bishnupur, District of Bankoora, Province of Bengal, India. Described, Piddington, 1851, Journ. Asiat. Soc. of Bengal, Vol. 20, pp. 299-307.....	11	20
549	1865, Aug. 25	SHERGOTTIE —Shergottite She Umjhiawar (24° 33' N, 84° 50' E), Shergottie District, Province of Bengal, India. Described, Bayley and Costley, 1866, Proc. Asiat. Soc. of Bengal, pp. 193-195.....	46	46
550	1863, Aug. 11	SHYTAL —Intermediate Chondrite, brecciated Cib Shytal (24° 20' N, 90° 24' E), near Tistra River, in Madhupur Jungles, Province of Bengal, India. Described, Haidinger, 1863, Sitzber. Wiener Akad. der Wissensch., Bd. 48, T. 2, pp. 595-600.	9	12

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WARD-COONLEY COLLECTION OF METEORITES.

No.	Found, Noticed or Described.	NAME OF THE METEORITE, with geographical index of locality.	Chief Piece.	Total Weight.
			Grammes.	
551	1794, June 16	SIENA —Howarditic Chondrite Cho Campagna Sanese (43° 7' N, 11° 36' E) and vicinity, near Siena, Province of Tuscany, Italy. Described, Domenico Tata, 1794, Antologia Romano, T. 21, p. 94.....	13	13
552	1901, June 10	SINDHRI —Spherulitic Chondrite Ce Sindhri (18° 10' N, 73° 56' E), near Khipro Jaluca, District of Ihar and Parkar, Presidency of Bombay, India. Main mass in Indian Museum, Calcutta.....	435	435
553	1875, Mch. 4	SITATHALI —Howarditic Chondrite Cho Sitathali (26° 34' N, 76° 40' E), and vicinity, near Nurrah, States of Rajputana, India. Described, Medlicott, 1876, Proc. Asiatic Soc. of Bengal, pp. 115, 116.....	7	14
554	1848, Dec. 27	SKI —White Chondrite, veined Cwa Ski (59° 56' N, 11° 18' E), near Krogstad, Amt. Akershuus, Norway. Described, Ditten, 1855, Jour. für Pract. Chemik, Bd. 64, pp. 121-123.....	1	1
555	1868, May 22	SLAVETIC —Gray Chondrite, brecciated Cgb Slavetic (45° 41' N, 15° 36' E), six miles north-west from Jaska, Province of Croatia, Austria. Described, v. Haidinger, 1868, Sitzber. Wien. Akad., Vol. 58, pp. 162-168.....	11	11
556	1818, Aug. 10	SLOBODKA —Spherulitic Chondrite Ce Slobodka (54° 48' N, 35° 10' E), District of Juchnow, Government of Smolensk, Central Russia. Described, Chladni, 1819, Vierte Fortsetzung, Gilb. Ann., Bd. 60, p. 254.....	26	26
557	1877, Oct. 13	SOKOBANJA —Spherulitic Chondrite Ce Banja (43° 41' N, 21° 34' E), and vicinity, near Alexinae, Kingdom of Servia. Described, Doll, 1877, Verh. der k. k. geol. Reichs- samt., Nr. 16, pp. 283-287.....	243	393
558		SONE MURA — Sone Mura (about 35° 10' N, 135° 20' E), Province of Tampa, Japan.....	2	2
559	1876, June 28	STÄLLDALEN —Gray Chondrite, brecciated Cgb Ställdalen (59° 56' N, 15° 2' E), and vicinity, near Kopparberget, Län of Orebro, Sweden. Described, v. Nordenskiöld, 1877, Föredrag i Mineralogi vid Akademiens årshögtid den 3 April, Stockholm, 1877.....	343	343
560	1808, May 22	STANNERN —Eukrite Eu Stannern (49° 18' N, 15° 36' E) and vicinity, District of Iglaui, Province of Moravia, Austria. Described, v. Jacquin, 1808, Gilb. Ann., Vol. 28, p. 491.....	409	753

AEROLITES.

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No.	Found, Noticed or Describd.	NAME OF THE METEORITE, with geographical index of locality.	Chief Piece.	Total Weight.
			Grammes.	
561	1857, Mch. 24	STAVROPOL —Crystalline Chondrite Ck Petrovsk (45° 4' N, 41° 58' E), near Stavropol, Government of Stavropol, Northern Caucasia, Russia. Described, Abich, 1860, Bull. de l'Acad. Imp. des Sciences de St. Petersburg, T. 2, pp. 404, 422..	6	6
562	1865, Jan. 19	SUPUHEE —Gray Chondrite, brecciated Cgb Near Supuhee (26° 17' N, 83° 23' E), fourteen miles south-southwest of Padrauna, District of Gorakhpur, Northwestern Provinces, India. Described, Buchner, 1869, Vierter, Nachtrag, Pogg. Ann., Bd. 136, p. 455.....	13	18
563	1753, June 3	TABOR —Spherulitic Chondrite, brecciated Ccb Tabor (49° 21' N, 14° 23' E) and vicinity, District of Bechin, Bohemia. Described, Stepling, 1754, De pluvia lapidea Anni 1753 ad Strkow et ejus Causis meditatio. Typis Francisci Ignatii Kirchner. Prag 1754, 33 Seiten.....	79	136
564	1877, Aug. 30	TABORY —Spherulitic Chondrite, brecciated Ccb Tabory (57° 42' N, 55° 16' E), and vicinity, Dis- trict of Ochansk, Government of Perm, East Russia. Described, Daubrée, 1887, Comptes Rendus, T. 105, pp. 987, 988.....	7019	9476
565	1867, June 9	TADJERA —Tadjerite Ct Plain of Tadjera (36° 20' N, 5° 30' E), ten miles southwest of Setif, Province of Constantine, Algeria, Africa. Described, Augeraud, 1867, Comptes Rendus, T. 65, pp. 240-242.....	5	7
566	1875	TALTAL — East of Taltal (25° 27' S, 70° 36' W), in Desert of Atacama, Chili.....	16	16
567	1872, June 28	TENNASILM —Spherulitic Chondrite, veined Cca Farm of Sikkensare (58° 44' N, 24° 54' E), Dis- trict of Jerwew, Province of Ehstland, Baltic Provinces, Russia. Described, v. Schilling, 1873, Arch. für Naturk. Liv. Ehst. u. Kurl., Bd. 8, pp. 1-20.....	63	63
568	1878, July 15	TIESCHITZ —Spherulitic Chondrite Ce Near Tieschitz (49° 9' N, 17° 9' E), District of Prerau, Province of Moravia, Austria. Described, Tschermak, 1878, M. P. M., Bd. 1, p. 289.....	27	55
569	1807, Mch. 25	TIMOCHIN —Spherulitic Chondrite Ce Timochin (54° 58' N, 35° 10' E), District of Juch- now, Government of Smolensk, Central Russia. Described, Gilbert, 1807, Gilb. Ann., Bd. 26, pp. 238, 239.....	37	55

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WARD-COONLEY COLLECTION OF METEORITES.

No.	Found, Noticed or Described.	NAME OF THE METEORITE, with geographical index of locality.	Chief Piece.	Total Weight.
			Grammes.	
570	1869, Sept. 19	TJABE —Crystalline Chondrite Ck Tjabe (7° 6' S, 111° 25' E), District of Padangen, Residency of Rembang, Island of Java. Described, v. Baumhauer, 1871, Arch. Néerl, T. 6 Nr. 4, pp. 305-325.....	47	70
571	1879, Sept. 17	TOMATLAN —Spherulitic Chondrite Ce Haciende d'El Garganitello (20° 17' N, 105° 12' W), eight miles northwest of Tomatlan, State of Jalisco, Mexico. Described, Shepard, 1885, Am. Jour. Science, Ser. 3, Vol. 30, pp. 105-108.....	4	8
572	1863	TOMHANNOCK —Gray Chondrite, brecciated Cgb Tomhannock Creek (42° 52' N, 73° 36' W), Rens- selaer County, New York, U. S. A. Described, Bailey, 1887, Am. Jour. Science, Ser. 3, Vol. 34, pp. 60-62.....	18	29
573	1812, April 12	TOULOUSE —Intermediate Chondrite, veined Cia Toulouse (43° 47' N, 1° 9' E) and vicinity, Canton of Grenade, Département de la Haute Garonne, France. Described, Gilbert, 1812, Gilb. Ann., Bd. 41, pp. 445-449.....	14	26
574	1863, Dec. 7	TOURINNES-LA-GROSSE —White Chondrite Cw Tourinnes-la-Grosse (50° 49' N, 4° 56' E), near Louvain, Belgium. Described, Van Beneden, 1863, Bull. Acad. Roy. Belgique, T. 16, p. 621.....	14	26
575	1890	TRAVIS COUNTY —Black Chondrite Cs Travis County (30° 20' N, 97° 29' W), Central Texas, U. S. A. Described, Eakins, 1890, Am. Jour. Science, Ser. 3, Vol. 39, p. 59.....	7	7
576	1856, Nov. 12	TRENZANO —Spherulitic Chondrite, veined Cca Ten miles (45° 28' N, 10° 2' E), west-southwest of Brescia, Province of Brescia, Italy. Described, Curioni, 1860, Atti R. Instit. Lomb. di Scienze, Lettere et Arti., Milano, 1860, T. 1, pp. 357-364.....	31	54
577	1884, May 20	TYSNES —Gray Chondrite, brecciated Cgb Estate of Midtvaage (62° 2' N, 5° 30' E), Island of Tysnes, Hardanger Fjord, Amt Bergenhus, Norway. Described, Reusch, 1886, Neues Jahrbuch B. B. IV, pp. 473-486.....	428	428
578	1840, June 12	UDEN —White Chondrite, brecciated Cwb Staartje (51° 40' N, 5° 35' E), near Volkel, District of Uden, Province of North Brabant, Holland. Described, van Rees, 1843, Pogg. Ann., Bd. 59, pp. 349, 350.....	3	3

AEROLITES.

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No.	Found, Noticed or Described.	NAME OF THE METEORITE, with geographical index of locality.	Chief Piece.	Total Weight.
			Grammes.	
579	1866, April	UDIPI —Gray Chondrite, veined Cga Udipi (13° 40' N, 74° 50' E), District of South Canara, Malabar, Coast, South India. Recorded, Meunier, Les Météorites, p. 209.	16	24
580	1822	UMBALLA —Gray Chondrite, veined Cga Forty miles west (30° 22' N, 76° 19' E) of Umballa, Punjab States, India. Described, Atkinson, 1859, Jour. Asiat. Soc. of Bengal, Vol. 28, p. 260.	4	9
581	1843, June 2	UTRECHT —Spherulitic Chondrite, veined Cca Blaauw Capel (52° 8' N, 5° 8' E), near Utrecht, Province of Utrecht, Holland. Described, Quetelet, 1843, Comptes Rendus, T. 16, pp. 1311, 1312.	109	109
582	1876, June 19	VAVILOVKA —Rodite Ro Vavilovka (46° 57' N, 32° 32' E), Government of Cherson, South Russia. Described, Prendel, 1877, Mém. de la Soc. Nation. des Sciences Nat., Cherbourg, T. 21, p. 205.	126	148
583	1865, Mch. 26	VERNON COUNTY —Crystalline Chondrite, veined Cka Vernon County (43° 30' N, 91° 10' W), Wisconsin, U. S. A. Described, Smith, 1875, Am. Jour. Science, Ser. 3, Vol. 10, p. 314.	22	22
584	1874, May 20	VIRBA —White Chondrite, veined Cwa Virba (44° 0' N, 22° 52' E), near Widdin, Bulgaria. Described, Daubrée, 1874, Comptes Rendus, T. 79, pp. 276, 277.	2	2
585	1831, May 18	VOUILLE —Intermediate Chondrite, veined Cia Vouille (46° 37' N, 0° 8' E), near Poitiers, Départe- ment de la Vienne, France. Described, 1831, Ann. Chim. Phys., T. 47, p. 442.	453	668
586	1873	WACONDA —Spherulitic Chondrite, brecciated Ccb Two miles from Waconda (39° 20' N, 98° 10' W), Mitchell County, Kansas, U. S. A. Described, Shepard, 1876, Am. Jour. Science, Ser. 3, Vol. 11, p. 473.	870	1300
587	1864, Dec. 4	WAIRARAPA —Carbonaceous Chondrite K Wairarapa (39° 22' S, 175° 53' E), five miles from Turakina, Province of Wellington, New Zealand Described, Haidinger, 1865, Sitzber. Wiener Akad. der Wissensch., Bd. 52, Pt. 2, pp. 151-153.	20	20
588	1877, Jan. 3	WARRENTON —Ornansite Cco Five miles from Warrenton (38° 44' N, 91° 12' W), Warren County, Missouri, U. S. A. Described, Smith, 1877, Am. Jour. Science, Ser. 3, Vol. 13, p. 243.	117	117

WARD-COONLEY COLLECTION OF METEORITES.

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No.	Found, Noticed or Described	NAME OF THE METEORITE, with geographical index of locality.	Chief Piece.	Total Weight.
			Grammes.	
589	1843, Nov. 12	WERCHNE TSCHIRSKAJA —Spherulitic Chondrite, veined Cca Werchne Tschirskaja (48° 25' N, 43° 10' E), Province of the Don Cossacks, South Russia. Described, Borissiak, 1847, Bull. de l'Acad. Imp. des Sciences de St. Petersbourg, T. 5, pp. 196, 198.	8	14
590	1831, Sept. 9	WESSELY —Gray Chondrite, veined Cga Estate of Wessely (48° 54' N, 17° 21' E), near Znorow, District of Hradisch, Province of Moravia, Austria. Described, von Schreibers, 1832, Baumgartners Zeitschr. für Physik und verw. Wissensch., Bd. 1, pp. 1, 239.	4	4
591	1807, Dec. 14	WESTON —Spherulitic Chondrite, brecciated Ccb Weston (41° 13' N, 73° 27' W) and vicinity, Fair- field County, Connecticut, U. S. A. Described, Silliman and Kinsley, 1809, Trans. Am. Philos. Soc. Vol. 6, pp. 323, 325.	79	144
592	1785, Feb. 19	WITMESS —Spherulitic Chondrite Ce Forest of Witmess (48° 52' N, 11° 10' E), six miles southwest of Eichstadt, Province of Mittel Franken, Bavaria. Described, Stütz, 1790, Bergbaukunde, Bd. 2, pp. 398, 399.	13	13
593	1795, Dec. 13	WOLD COTTAGE —White Chondrite, veined Cwa Wold Cottage (54° 9' N, 0° 24' W), County of York, England. Described, Topham, Gentleman's Magazine, Feb. 8, 1796.	10	15
594	1852, Jan. 23	YATOOR —Spherulitic Chondrite Ce Yatoor (14° 22' N, 18° 0' E), near Nellore, Presi- dency of Madras, India. Described, Haidinger, 1861, Sitzber. Wien. Akad., Vol. 44, pp. 73, 74.	27	27
595	1877, June 17	YODZE —Howardite, breccialike Hob Yodze (54° 44' N, 24° 22' E), near Ponevej, Govern- ment of Kovno, Baltic Russia. Recorded, von Hauer, 1892, Ann. Hofmuseum, Bd. 7, p. 73.	45	45
596	1836, June 12	YONATSU Yonatsu Mura (about 37° 15' N, 139° 10' E), Dis- trict of Kambara, Province of Echigo, North Japan. Main mass (30 kilos) in Imperial Museum of Ueno, Japan.	39	39

No.	Found, Noticed or Described.	NAME OF THE METEORITE, with geographical index of locality.	Chief Piece.	Total Weight.
			Grammes.	
597	1818, April 10	ZABORZIKA —White Chondrite, veined Cwa Zaborzika (50° 15' N, 27° 30' E), near River Slutsch, south of Nowgrad-Volhynsk, Govern- ment of Volhynia, West Russia. Described, Laugier, 1823, <i>Gilb. Ann.</i> , Vol. 75, pp. 264-266.	50	72
598	1893, Sept. 22	ZABRODJE —Intermediate Chondrite, veined Cia Zabrodje (55° 11' N, 27° 55' E), Government of Wilma, Baltic Russia. Described, Melikoff, 1894, <i>Ber. d. d. Chem. Ges.</i> , Bd. 27, pp. 1235-1238.	4	4
599	1897, Aug. 1	ZAVID —Intermediate Chondrite, veined Cia Zavid (44° 33' N, 18° 37' E) and vicinity, near Rozanj, District of Zvornik, Province of Bosnia, Austria. Described, Berwerth, 1901, <i>Wissensch. Mittheil.</i> <i>aus Bosnien und der Hercegovina</i> , Bd. 8, pp. 1, 18.	384	821
600	1824, Oct. 14	ZEBRAK —Spherulitic Chondrite Ce Zebra (49° 52' N, 13° 55' E), near Horowie, District of Beraun, Bohemia. Described, v. Martius, 1825, <i>Kastner's Archiv</i> f. d. gesammte Naturlehre, Bd. 30, pp. 421, 422.	14	14
601	1858, August	ZMENJ —Howardite Achondrite Ho Zmenj, near Stolim (51° 53' N, 26° 40' E), Govern- ment of Minsk, Russia. Described, Prendel, <i>Revue des Sciences Natu-</i> <i>relles</i> , 1892, No. 9, pp. 323-326.	1	1
602	1875, Mch. 31	ZSADANY —Spherulitic Chondrite Ce Zsadany (45° 55' N, 21° 14' E) and vicinity, Temesvar Comitatus, Hungary. Described, Cohen, 1878, <i>Verhdl. des Naturh. Med.</i> <i>Vereins zu Heidelberg</i> , Bd. 2, H. 2, pp. 1, 10.	14	19
603	1899	RANCHO DE LA PRESA —Spherulitic Chondrite Ce Rancho de la Presa (19° 50' N 100° 30' W), Mu- nicipality of Ucareo, District of Zinapécuaro, State of Michoacan, Mexico. Original mass in Museum of the Geological Institute, City of Mexico.	5	5

IV. ALPHABETICAL LIST OF ALL KNOWN METEORITES,

WITH NOTE OF SUCH SYNONYMS AS HAVE IMPORTANCE.

A

- ABERT IRON.** Medium Octahedrite Om
Locality unknown. Found in Col. J. J.
Abert's collection, National Museum,
Washington, D. C., U. S. A.
- ABO**, 1 40. Stone
Southwest Finland.
- ADALIA**, 1883. Stone Eu
Konia, Asia Minor.
- Adair; Adare. **LIMERICK**
- ADARGAS**, 1780. Iron. Om
Sierra de las Adargas, nine leagues south of
Jimenez, State of Chihuahua, Mexico.
- ADMIRE**, 1881. Siderolite Pr
Fifteen miles west from Ossage City, Lyon
County, Kansas, U. S. A.
- Aeriotopos **BEAR CREEK**
- AGEN**, 1814. Stone. Cia
Département de Lot-et-Garonne, France.
- Agen, 1826. **GALAPIAN**
- AGRA**, 1822. Stone. Cga
Kadonah, near Agram, Province of Doab,
Northern India
- Agram. **HRASCHINA**
- Aigle. **L'AIGLE**
- Ain, 1753. **LUPONNAS**
- Ainsa. **TUCSON**
- AKBURPUR**, 1838. Stone. Cgb
Akburpur, near Cawnpur, N. W. Provinces,
India.
- Akershuus. **SKI**
- ALAIS**, 1806. Stone. K
Alais and vicinity. Département du Gard,
Southern France.
- Alastoewa. **DJATI-PENGILON**
- Alatyr. **NOWO-UREI**
- Albacher Mühle. **BITBURG**
- ALBARETO**, 1766. Stone. Ce
Near Modena, Province of Modena, Italy.
- Albuquerque. **GLORIETA**
- ALDSWORTH**, 1835. Stone. Cga
Aldsworth, near Cirencester, England.
- ALEPPO**, 1873. Cwb
Aleppo, Province of Aleppo, Asia Minor.
- ALESSANDRIA**, 1860. Stone. Cga
Valley of San Giuliano Vecchio, Province of
Alessandria, Italy.
- Alexejewka. **BACHMUT**
- ALFIANELLO**, 1883. Stone. Ci
Alfinaello, Province of Brescia, Italy.
- ALGOMA**, 1887. Iron. Om
Algoma, Kewaunee County, Wisconsin, U.
S. A.
- Allahabad, 1822. **FUTTEHPOOR**
- ALLEGAN**, 1899. Stone. Cco
Allegan, Allegan County, Michigan U. S. A.
- Allen County. **SCOTTSTOWN**
- ALT BIELA**, 1898. Iron. Of
Alt Biela, near Ostrau, Moravia, Austria.
- Amakaken. **CAPEER**
- Amana. **ERGHEO**
- Amana. **HOMESTEAD**
- Amates. **TOLUCA**
- AMATES**, 1889. Iron. Om
Rancho de los Amates, north of Iguala,
State of Guerrero, Mexico.
- AMBAPUR NAGLA**, 1895. Stone. Cck
Sikandra Rao Tahsil, Aligarh District,
Northwest Provinces, India.
- ANDERSON**. Prehistoric Siderolite. Pk
Little Miami Valley, Ohio, U. S. A.
- ANDOVER**, 1898. Stone. Ce
Andover, Oxford County, Maine, U. S. A.
- ANGARA**, 1885. Iron. Om
Government of Jeniseisk, East Siberia.
- ANGERS**, 1822. Stone. Cwa
Angers, Département du Maine-et-Loire,
France.
- ANGRA DOS REIS**, 1869. Stone. A
Angra dos Reis, Province of Rio Janeiro,
Brazil.
- Antofona. **COLLESCIPOLI**
- Antofogasta, 1876. **MANTOS BLANCOS**

Antofagasta, 1896. **SAN CRISTOBAL**
APOALA, 1889. Iron. Of
 Apoala, ten miles east of Coixtlahuaca,
 State of Oaxaca, Mexico.
ARISPE, 1898. Iron. Ogg
 Arispe, State of Sonora, Mexico.
APT. Stone. Cga
 Saurette, Département de Vaucluse, France.
ARLINGTON, 1894. Iron. Om
 Arlington, Sibley County, Minnesota.
 Arva. **MAGURA**
ASCO, 1805. Stone. Cwa
 Asco, Island of Corsica, Mediterranean.
ASHEVILLE, 1839. Iron. Om
 Bairds Farm, six miles north of Asheville,
 Buncombe County, North Carolina, U.
 S. A.
ASSAM, 1846. Stone. Cgb
 State of Assam, India.
ASSISI, 1886. Stone. Cc
 Torre, near Assisi, Province of Perugia, Italy.
 Atacama, Pallasit, 1828. **IMILAC**

B

BABB'S MILL, 1842. Iron. Db
 Babb's Mill ten miles north of Greenville,
 Greene County, Tennessee U. S. A.
BACHMUT, 1814. Stone. Cw
 Alexejewka, near Bachmut, Government of
 Ekaterinoslaw, Southern Russia.
BACUBIRITO, 1871. Iron. Off
 El Ranchito, seven miles south of Bacu-
 birito, State of Sinaloa, Mexico.
 Bajadoz. **GUARENA**
 Bahia. **BENDEGO**
 Baird's Farm or Plantation. **ASHVILLE**
BALD EAGLE, 1891. Iron. Om
 Bald Eagle Mountain, seven miles south of
 Williamsport, Pennsylvania, U. S. A.
 Baldohn. **MISSSHOF**
BALLINOO, 1893. Iron. Off
 Ten miles south of Ballinoo, Murchison
 River, West Australia.
BANDONG, 1871. Stone. Ro
 Bandong and vicinity, Province of Preanger,
 Java.
BARBOTAN, 1790. Stone. Cga
 Barbotan and vicinity, Département des
 Landes, France.
 Barcelona, 1861. **CANELLAS**

Atacama, Bolivia, 1858. **JOEL'S IRON**
 Atacama, 1860. Stone. **LUTSCHAUNIG**
 Atacama, 1874. Iron. **CACHIYUYAL**
 Atacama, 1861, Siderolite. **VACA MUERTA**
AUBRES, 1836. Stone. Bu
 Aubres, Département de la Drôme, France.
AUBURN, 1836. Iron. H
 Auburn, Lee County (formerly Macon
 County), Alabama, U. S. A.
 Augusta County. **STAUNTON**
AUGUSTINOWKA, 1890. Iron. Of
 Augustinowska, Government of Ekaterinos-
 law, Southern Russia.
 Aukoma. **PILLISTFER**
 Aumale. **SENHADJA**
AUMIERES, 1842. Stone. Cwa
 Aumiere, Département de la Lozere, France.
AUSSON, 1858. Stone. Cc
 Ausson, Département de la Haute Garonne,
 France.
AVILEZ, 1856. Stone. Cc
 Hacienda d'Avilez, State of Durango, Mexico.

MOCS

Baré. **MOCS**
BAREA, 1842. Siderolite. M
 Barea, Province of Logrono, Spain.
BARNTRUP, 1886. Stone. Cia
 Forest of Krähenholz, north of Barntrup,
 Principality of Lippe, Germany.
BARRANCA BLANCA, 1855. Iron. Obz
 Barranca blanca, Pass through the Cordil-
 leras from Atacama Desert, Chili.
BARATTA, 1845. Stone. Cgb
 Baratta Station, thirty-five miles northwest
 of Deniliquin, New South Wales, Australia.
 Bassein. **QUENGGOUK**
 Bates County. **BUTLER**
 Batesville. **JOE WRIGHT**
BATH, 1892. Stone. Ceb
 Two miles south of Bath, near Aberdeen,
 Brown County, South Dakota, U. S. A.
BATH FURNACE, 1902. Stone. Cia
 Five miles south of Salt Lick, Bath County,
 Kentucky, U. S. A.
 Bathurst. **COWRA**
BEACONSFIELD, 1897. Iron. Og
 (Cranbourne), east of Berwick, Mornington
 County, Victoria, Australia.

BEAR CREEK, 1866. Iron. Of
 Aeriotos, Jefferson County, Colorado, U.
 S. A.
 Bear River. **BEAR CREEK**
 Beaufort. **ORANGE RIVER**
 Beauegency. **CHARSONVILLE**
BEAVER CREEK, 1893. Stone. Cck
 Near boundary of United States on Beaver
 Creek, West Kootenai District, British
 Columbia.
 Belgorod. **SEVRUKOVO**
 Belgradjik. **VIRBA**
BELLA ROCA, 1888. Iron. Of
 La Bella Roca, Sierra de San Francisco,
 State of Durango, Mexico.
BENARES, 1798. Stone. Cc
 Krakhut, near Benares, Northwestern Prov-
 inces, India.
 Benares, 1827. Mhow
BENDEGO, 1784. Iron. Og
 Bendego, Province of Bahia, Brazil.
BERLANGUILLAS, 1811. Stone. Cia
 Berlanguillas, Province of Burgos, Spain.
 Bethanien. **MUKEROP**
BETHLEHEM, 1859. Stone. Cck
 Bethlehem, near Albany, Albany County,
 New York, U. S. A.
BEUSTE, 1859. Stone. Cgb
 Beuste, Département des Basses Pyrénées,
 France.
 Bhagur. **DHULIA**
BHERAI, 1893. Stone. Cwa
 Bherai, Kathiawar, Presidency of Bombay,
 India.
 Bhurtpur, 1868. **MOTECKA NUGLA**
BIALYSTOCK, 1827. Stone. Ho
 Bialystock, Government of Bialystock,
 Russia.
BIelokRYNITSCHIE, 1887. Stone. Cib
 Bielokrynitschie, Government of Volhynia,
 Russia.
 Bierbele. **BJURBÖLE**
BINGARA, 1880. Iron. Ha
 Bingara, New South Wales, Australia.
BISCHTUBE, 1888. Iron. Og
 Bischtube, Province of Turgai, Western
 Siberia.
BISHOPVILLE, 1843. Stone. Chla
 Near Bishopville, Sumter County, South
 Carolina, U. S. A.
BISHUNPUR, 1895. Stone. Cs
 Bishunpur, Mirzapur District, Northwestern
 Provinces, India.

BITBURG, 1802. Siderolite. Pa
 Albacher Mühle, near Bitburg, north of
 Treves, Rhenish Prussia.
BJELAJA ZERKOV, 1796. Stone. Ce
 Bjelaja Zerkov, Ukraine, Government of
 Kief, Russia.
BJURBÖLE, 1899. Stone. Cca
 Bjurböle, near Borga, south coast of Fin-
 land, Russia.
 Blaauw-Kapel. **UTRECHT**
BLACK MOUNTAIN, 1835. Iron. Og
 Black Mountain, Buncombe County, North
 Carolina, U. S. A.
BLANSKO, 1833. Stone. Cga
 Blansko, Province of Moravia, Austria.
BLUE TIER, 1890. Iron. Om
 Northeast Coast of Tasmania, Australia.
BLUFF, 1878. Stone. Ck
 Bluff, three miles southwest of La Grange,
 Fayette County, Texas, U. S. A.
 Bobrik. **KHARKOW**
BOCAS, 1804. Stone. Cw
 Hacienda de Bocas, State of San Luis Potosi,
 Mexico.
BOHUMILITZ, 1829. Iron. Og
 Bohumilitz, District of Prachin, Southwest
 Bohemia.
 Bois de Fontaine. **CHARSONVILLE**
 Bokkeveldt. **COLD BOKKEVELDT**
 Bolson de Mapimi, H. 1837. **COAHUILA**
 Bonanza. Iron. **COAHUILA**
BOOGALDI, 1900. Iron. Of
 Two miles from Boogaldi Post Office, New
 South Wales, Australia.
 Bordeaux. **BARBOTAN**
BORGO SAN DONINO, 1808. Stone. Ch
 Borgo San Donino, Cusignano near Parma,
 Italy.
BORI, 1894. Stone. Cia
 Bori, twelve miles northeast of Badnur,
 Betul District, Northwestern Provinces,
 India.
BORKUT, 1852. Stone. Cc
 Borkut, Comitad of Marmarosch, Hungary.
BORODINO, 1812. Stone. Cgb
 Borodino, near Kolotscha, Government of
 Moscow, Russia.
BOTSCHETSCHKI, 1823. Stone. Cg
 Botschetschki, Government of Kursh, Russia.
 Brabant. **UDEN**
BRAHIN, 1810. Siderolite. Pr.
 Rokicky, Government of Minsk, Western
 Russia.

BRAUNAU, 1847. Iron. H
Braunau, Hauptmannsdorf and Ziegel-
schlag, District of Königgrätz, North-
western Bohemia.

Brazos, 1836. **WICHITA**
Breitenbach **STEINBACH**

BREMERVÖRDE, 1855. Stone. Ceb
Bremervörde, near Gnarnenburg, Province
of Hanover, Prussia.

BRENHAM, 1890. Siderolite. Pk
Brenham and vicinity Kiowa County, Kan-
sas, U. S. A.

BRIDGEWATER, 1890. Iron. Of
Bridgewater Station, Burke County, North
Carolina, U. S. A.

Cabarras County. **MONROE**

CABEZZO DE MAYO, 1849. Stone. Cw
Cabezzo de Mayo, Province of Murcia, Spain.

CABIN CREEK, 1886. Iron. Om
Six miles east of Lamar, Johnson County,
Arkansas, U. S. A.

CACARIA, 1867. Iron. Oh
Cacaria, north of City of Durango, State of
Durango, Mexico.

CACHIYUYAL, 1875. Iron. Om
Desert of Atacama, Chili.

Caille. **LA CAILLE**

CALDERILLA, 1883. Siderolite. Pk
Suburb of Caldera, Chili.

CAMBRIA, 1818. Iron. Of
Seven miles northwest of Lockport, Morgan
County, New York, U. S. A.

CAMPO DEL CIELO, 1783. Iron. Ds
Otumpa, Territory of Gran Chaco, Argentine
Republic.

Campo del Pucara. **IMILAC**
Canara. **UDIPI**

CANELLAS, 1861. Stone. Ci
Canellas, near Barcelona, Province of Bar-
celona, Spain.

Caney Fork. **CARTHAGE**

CANGAS DE ONIS, 1866. Stone. Cgb
Cangas de Onis (Engueras) Province of
Oviedo, Spain.

CAÑON DIABLO, 1891. Iron. Og
Cañon Diablo, Coconino County, Central
Arizona, U. S. A.

Bückeberg. **OBERNKIRCHEN**

Burgos. **BERLANGUILLAS**

BURLINGTON, 1819. Iron. Om
Cooperstown, Otsego County, New York,
U. S. A.

BUSCHHOF, 1863. Stone. Cwa
Buschhof, near Jacobstadt, Kurland, Baltic
Provinces, India.

Butcher, Iron. **COAHUILA**

BUTLER, 1874. Iron. Off
Butler, Bates County, Missouri, U. S. A.

BUTSURA, 1861. Stone. Ci
Butsura, forty-two miles northeast of Gor-
uckpur, Northwestern Provinces, India.

C

CANTON, 1894. Iron. Ogg
Cherokee Mills, Cherokee County, Georgia,
U. S. A.

CANYON CITY, 1875. Iron. Og
Canyon City, Trinity County, Northern
California, U. S. A.

Caparrosa. **TOLUCA**

CAPE GIRARDEAU, 1846. Stone. Ce
Seven miles south of Cape Girardeau, Cape
Girardeau County, Missouri, U. S. A.

Cape Iron; Kap Eisen. **CAPE OF GOOD HOPE**

CAPE OF GOOD HOPE, 1793. Iron. De
(Cape Iron) Cape Colony, South Africa.

CAPE YORK, 1818. Iron. Om
Fifty miles east of Cape York, Melville Bay,
Northwest Coast of Greenland.

CAPERR, 1869. Iron. Om
Caperr, Rio Senguer, Chubut Province,
Northeast Patagonia.

Capitan Range. **EL CAPITAN**
Caracoles. **IMILAC**

Carcoar. **COWRA**

CARCOTE, 1889. Stone. Ck
Carcote, Province of Atacama, Chili.

Carleton. **TUCSON**

CARLTON, 1887. Iron. Off
Carlton, Hamilton County, Central Texas,
U. S. A.

Carrol County. **EAGLE STATION**

CARTHAGE, 1844. Iron. Om
(Caney Fork), Smith County, Tennessee,
U. S. A.

Caryfort. **CARTHAGE**

Casale, 1868. **MOTTA DI CONTI**

Casale, 1840. **CERSETO**

CASAS GRANDES. Prehistoric. Om
Malintzin, State of Chihuahua, Mexico.

CASEY COUNTY, 1877. Iron. Ogg
Casey County, Central Kentucky, U. S. A.

CASTALIA, 1874. Stone. Cgb
Near Castalia, Nash County, North Carolina,
U. S. A.

CASTINE, 1848. Stone. Cwa
Castine, Hancock County, Maine.

Catorze. **DESCUBRIDORA**

Cento. **RENAZZO**

CENTRAL MISSOURI, 1885. Iron. Ogg
Central portion of State of Missouri, U. S. A.

CERSETO 1840. Stone. Ceb
Cereseto, near Ottiglio, Province of Ales-
sandra, Italy.

CHAIL, 1814. Stone.
Allahabad, Province of Bengal, India.

Chañaralino. **MERCEDITAS**

CHANDAKAPUR, 1838. Stone. Cib
Chandakapur Valley of Berar, India.

CHANDPUR, 1885. Stone. Cwa
Chandpur, five miles northwest of Mainpuri,
Northwestern Provinces, India.

CHANTONNAY, 1812. Stone. Cgb
Chantonay, Département de la Vendée,
France.

CHARCAS, 1804. Iron. Om
Charcas, State of San Luis Potosi, Mexico.

CHARLOTTE, 1835. Iron. Of
Charlotte, Dickson County, Central Tennes-
see, U. S. A.

Charkow. **KHARKOV**

CHARSONVILLE 1810. Stone. Cga
Charsonville (Chartres), Meung sur Loire,
Département du Loire, France.

CHARWALLAS, 1834. Stone. Ci
Charwallas, twenty miles south-southwest
of Sirsa, Punjab States, India.

CHASSIGNY 1815. Stone. Cha
Chassigny, near Langres, Département de
la Haute Marne, France.

CHATEAU RENARD, 1841. Stone. Cia
Chateau-Renard, Montargis, Département du
Loiret, France.

Chatooga County. **HOLLANDS STORE**

Cherokee County, 1867. **LOSTTOWN**

Cherokee Mills Cherokee County, 1894.
CANTON

CHESTERVILLE, 1847. Iron. Ds
Chester County, South Carolina,
U. S. A.

CHICHIMEGUILAS, 1901. Iron.
Hacienda of Chichimeguilas, State of Zaca-
tecas, Mexico.

CHILCOAT, 1881. Iron. O
Chilcoot Inlet, Portage Bay, Southern
Alaska.

Chilpanzingo **TOLUCA**

CHULAFINNEE 1873. Iron. Om
Chulafinnee Cleburne County, Alabama, U.
S. A.

CHUPADEROS 1852. Iron. Of
Rancho de Chupaderos, State of Chihuahua,
Mexico.

CINCINNATI, 1898. Iron. Ds
Found in old collection, Cincinnati, Ohio,
U. S. A.

Clairborne **LIME CREEK**

Claywater. **VERNON COUNTY**

Cleguerec. **KERNOUVÉ**

CLEVELAND, 1860. Iron. Om
(Lea Iron) Bradley County, Tennessee, U.
S. A.

CLOHARS, 1822. Stone. Cgb
Fouesnant, Quimper, Département de Finis-
tere, France.

COAHUILA, 1837. Iron. H
Santa Rosa, Sancha Estate, Bonanza, Bolson
de Mapimi, State of Coahuila, Mexico.

Cobija. **JOEL'S IRON**

Cocke County. **COSBY'S CREEK**

COLD BOKKEVELD, 1838. Stone. K
Cold Bokkeveld, fifteen miles north of
Tulbagh, Cape Colony, Africa.

COLFAX, 1880. Iron. O
Near Ellenborough, Rutherford County,
North Carolina, U. S. A.

COLLESCIPOLI, 1890. Stone. Ce
Collescipoli, near Terni, Province of Perugia,
Italy.

Collin County. **MACKINNEY**

Concepcion, 1784. **ADARGAS**

Concepcion. **NOGOYA**

Caney Fork. **CARTHAGE**

Constantine. **TADJERA**

CONSTANTINOPLE, 1805. Stone. Eu

Constantinople, Turkey.

Cooperstown. **BURLINGTON**

COOPERTOWN, 1860. Iron. Om
Coopertown, Robertson County, Tennessee,
U. S. A.

- COPIAPO**, 1863. Brecciated Octahedrite. Obe
Southern part of Desert of Atacama, Chili.
- COSBY'S CREEK**, 1890. Iron. Og
Cosby's Creek, Cocke County, Eastern Ten-
nessee, U. S. A.
- COSINA**, 1844. Stone. Ck
Loma de la Cosina, near Dolores Hidalgo,
State of Guanajuato, Mexico.
- Costa Rica. **HEREDIA**
- COSTILLA PEAK**, 1881. Iron. Om
Costilla Peak, Cimarron Range, Taos, New
Mexico, U. S. A.
- COWRA**, 1888. Iron. Off
Thirty-five miles southwest of Carcoar,
Bathurst District, New South Wales,
Australia.
- CRAB ORCHARD**, 1887. Siderolite. Mg
Powder Mill Creek, 8 miles west of Rockwood
Furnace, Cumberland County, Tennessee,
U. S. A.
- CRANBERRY PLAINS**, 1852. Iron. O
Poplar Hill, Giles County, Southwestern
Virginia, U. S. A.

D

- Dacca. **SHYTAL**
- DAKOTA**, 1863. Iron. Ogg
State of South Dakota, U. S. A.
- DALTON**, 1877. Iron. Om
Twelve miles northeast of Dalton, Whitfield
County, Georgia, U. S. A.
- DANDAPUR**, 1878. Stone. Cia
Dandapur, District of Dorakhpur, North-
western Provinces, India.
- DANIELS KUIL**, 1868. Stone. Ck
Daniels Kuil, Griqualand West, South Africa.
- DANVILLE**, 1868. Stone. Cga
Near Danville, Morgan County, Alabama,
U. S. A.
- DARMSTADT**, 1804. Stone. Cga
Darmstadt. Grand Duchy of Hessen, Ger-
many.
- DEAL**, 1829. Stone. Ci
Deal, near Long Branch, Monmouth County,
New Jersey, U. S. A.
- Debreczin. **KABA**
- Decatur County. **PRAIRIE DOG CREEK**
- DE CEWSVILLE**, 1887. Stone. Cw
De Cewsville, Haldimand County, Ontario,
Canada.

- CRANBOURNE**, 1854. Iron. Og
Cranbourne, Mornington County, Victoria,
Australia.
- CRONSTADT**, 1877. Stone. Cga
Cronstadt, Orange Free State, Africa.
- CROSS ROADS**, 1892. Stone. Cg
Cross Roads Township, Wilson County,
North Carolina U. S. A.
- Cross Timbers. **RED RIVER**
- CRUMLIN**, 1902. Stone.
Crumlin, ten miles west of Belfast, County
Antrim, Ireland.
- CUBA**, 1872. Iron. Om
Middle portion of Island of Cuba, West
Indies.
- CUERNAVACA**, 1889. Iron. Of
Cuernavaca, State of Morelos, Mexico.
- Cusignano. **BORGO SAN DONINO**
- CYNTHIANA**. Stone. Cg
Nine miles from Cynthiana, Harrison County,
Kentucky, U. S. A.

- DEEP SPRING**, 1846. Iron. Db
Deep Springs Farm, Rockingham County,
North Carolina, U. S. A.
- DELLYS**, 1865. Iron. Om
Department of Alger, Algeria, North Africa.
- Deniliquin. **BARRATTA**
- DENTON COUNTY**, 1856. Iron. Om
Denton County, Texas, U. S. A.
- DESCUBRIDORA**, 1780. Iron. Om
Descubridora Range, east of Catorze, State
of San Luis Potosi, Mexico.
- DHULIA**, 1877. Stone. Cwa
Dhulia, near Bhagar, Bombay Presidency,
India.
- DHURMSALA**, 1860. Stone. Ci
Dhurmsala. District of Kangra, Punjab
Provinces, India
- Dickson County **CHARLOTTE**
- DJATI PENGILON**, 1884. Stone. Ck
Djati Pengilon, District of Ngawi, Island of
Java.
- DOLGOWOLI**, 1864. Stone. Cw
Dolgowoli, Government of Volhynia, Russia.
- DOÑA INEZ**, 1888. Siderolite. M
Cerro de Doña Inez, Province of Atacama,
Chili.

- DONGA KOHROD**, 1899. Stone.
Donga Khorod, District of Bilaspur Central
Provinces, India.
- DORONINSK**, 1805. Stone. Cgb
Doroninsk, Government of Irkutsk, East
Siberia, Asia.
- DRAKE CREEK**, 1827. Stone. Cwa
Drake Creek, Sumner County, Tennessee,
U. S. A.
- DUEL HILL**, 1873. Iron. Og
Duel Hill, Madison County, North Carolina,
U. S. A.
- Dünaburg. **LIXNA**

- DUNDRUM**, 1865. Stone. Ck
Dundrum, Tipperary County, Ireland.
- Dun-le-Poelier. **LA BECASSE**
- DURALA**, 1815. Stone. Cia
Durala, eighteen miles south of Umballa,
Punjab States, India
- Durango. **RANCHO DE LA PILA**
- DURUMA**, 1853. Stone. Cia
Duruma, Wanika Land, East Africa.
- DYALPUR**, 1872. Stone. U
Dyalpur, Sultanpur, Oudh States, India.

E

- EAGLE STATION**, 1880. Siderolite. Pr
Near Eagle Station, Carroll County, Ken-
tucky, U. S. A.
- Eau Claire **HAMMOND**
- Echo. **SALT LAKE CITY**
- Eichstädt. **WITMESS**
- ELBOGEN**, 1785. Iron. Om
Elbogen, near Karlsbad, Northwestern Bo-
hemia.
- EL CAPITAN**, 1893. Iron. Om
North Slope of El Capitan Range, Lincoln
County, New Mexico, U. S. A.
- El Chanaralino **MERCEDITAS**
- Eldorado County. **SHINGLE SPRINGS**
- Elgueras. **CANGAS DE ONIS**
- ELI ELWAH**. Stone.
Eli Elwah, Station, fifteen miles west from
Hay, New South Wales, Australia.
- Elisabetgrad, 1889. **MIGHEI**
- Elissawetpol, 1891. **INDARCH**

- EL TULE**, 1889. Iron. Om
Rancho del Tule, Balleza, one hundred
miles west of Chupaderos, State of Chi-
huahua, Mexico.
- Emmet County. **ESTHERVILLE**
- EMMITSBURG**, 1854. Iron. Om
Emmitsburg, Frederick County, Maryland,
U. S. A.
- ENSISHEIM**, 1492. Stone. Ckb
Ensisheim, Province of Alsace, Germany.
- Entre Rios. **NOGOYA**
- EPINAL**, 1822. Stone. Ce
Epinal, Commune of La Baffe, Département
des Vosges, France
- ERGHEO**, 1889. Stone. Ckb
Amana, near Ergheo, west of Barava, Somali
Land, East Africa
- ERXLEBEN**, 1812. Stone. Ck
Erxleben, Province of Saxony, Prussia
- ESNANDES**, 1837. Stone. Cg
Esnandes, Département de la Charente-
Inférieure, France.
- ESTHERVILLE**, 1879. Siderolite. M
Estherville, Emmet County, Iowa, U. S. A.

F

- FARMINGTON**, 1890. Stone. Csa
Farmington, Washington County, Kansas,
U. S. A.
- FAVARS**, 1844. Stone. Ci
Favars, Département de l'Aveyron, France.
- Fayette County. **BLUFF**
- Fehrbellin. **LINUM**
- FEID CHAIR**, 1875. Stone. Ceb
Feid Chair, District of La Calle, Province
of Constantine, Algeria, North Africa.

- FELIX**, 1900. Stone. Ke.
Near Felix, Perry County, Alabama, U.
S. A.
- FISHER**, 1894. Stone. Cia
Fisher, Polk County Minnesota, U. S. A.
- Fish River. **GREAT FISH RIVER**
- Floyd County. **INDIAN VALLEY**
- Fomatlan. **TOMATLAN**

FOREST, 1890. Stone. Ceb
Near Forest City, Winnebago County, Iowa,
U. S. A.

FORSYTH, 1829. Stone. Cwa
Near Forsyth, Monroe County, Georgia, U.
S. A.

FORSYTH COUNTY, 1895. Iron. Dn
Forsyth County, North Carolina. U. S. A.

FORT DUNCAN, 1882. Iron. H
Fort Duncan, Maverick County, Southern
Texas, U. S. A.

FORT PIERRE, 1856. Iron. Om
Twenty miles west of Fort Pierre, Stanley
County, South Dakota, U. S. A.

FRANCEVILLE, 1890. Iron. Om
Franceville, El Paso County, Colorado, U.
S. A.

FRANKFORT, 1866. Iron. Om
Eight miles southwest of Frankfort, Franklin
County, Kentucky, U. S. A.

FRANKFORT, 1868. Stone. Ho
Four miles South of Frankfort, Franklin
County, Alabama U. S. A.

Franklin County, **FRANKFORT, ALABAMA**
Fredrickshavn. **LUOTOLAKS**
Freehold **DEAL**

FUKUTOMI, 1882. Stone. Cga
Fukutomi, Kineshima District, Province of
Hizen, West Coast of Japan.

Fürstenberg **KLEIN-MENOW**

FUTTEHPUR, 1822. Stone. Cwa
Futtehpur, Northwestern Provinces, India.

G

GALAPIAN, 1826. Stone. Cwa
Galapian, near Agen, Département de Lot-
et-Garonne, France.

Gargantillo. **TOMATLAN**
Garret County **LONACONING**
Gawler Range **YARDEA STATION**
Gera. **POHLITZ**

GERONA, 1900. Stone. Cgb
Gerona, Province of Gerona, Spain.

Gettysburg. **MOUNT JOY**

GHAMBAT, 1897. Stone. Cia
Ghambat, Khaipur, Province of Sind, India.

GILGOIN, 1889. Stone. Ck
Gilgoi Station, forty miles east southeast
of Brewarrina, New South Wales Aus-
tralia.

Gindorecha. **INDARCH**

GIRGENTI, 1853. Stone. Cwa
Girgenti, Island of Sicily, Italy.

Glasgow. **HIGH POSSIL**

GLORIETA, 1884. Iron. Om
Near Canoncito, Santa Fe County, New
Mexico, U. S. A.

GNADENFREI, 1879. Stone. Ce
Guadenfrei, Province of Silesia, Prussia.

Gnarrenburg **BREMERVÖRDE**

GOALPARA, 1868. Stone. U
Goalpara, Province of Assam, India.

GOPALPUR, 1865. Stone. Ce
Gopalpur, near Bagirhat, Jessore, Province
of Bengal, India.

Gran Chaco. **CAMPO DEL CIELO**

GRAND RAPIDS, 1883. Iron. Of
Grand Rapids, Walker Township, Michigan,
U. S. A.

Grasse. **LA CAILLE**

GRAZAC, 1885. Stone. K
Grazac, Département de Tarn, France.

GREAT FISH RIVER, 1836. Iron. Of
Graaf Reinet, Cape Colony, South Africa.

GREENBRIER, 1880. Iron. Og
Three miles north of White Sulphur Springs,
Greenbrier County, West Virginia, U.
S. A.

GROSLÉE, 1827. Iron. Of
Groslee, near Belley, Département de l'Ain,
France.

GROSS DIVINA, 1837. Stone. Ce
Gross Divina, Trentsiner Comit, Hungary.

GROSSLIEBENTHAL, 1881. Stone. Cwa
Grossliebenthal, twelve miles south-southwest
of Odessa, Government of Cherson, South-
ern Russia.

GROSSNAJA, 1861. Stone. Cs
Grossnaja, Banks of the River Terek,
Caucasus Mountains, Russia.

GRÜNEBERG, 1841. Stone. Cga
Grüneberg, Province of Silesia, Prussia.

GUARENA, 1892. Stone. Ck
Guarena, Province of Badajoz Spain.

GUCA, 1891. Stone. Ce
Guca, near Cacak, Servia.

Guernsey County. **NEW CONCORD**

GÜTERSLOH, 1851. Stone. Ceb
Gütersloh, near Minden, Province of West-
phalia, Prussia.

GUILFORD, 1822. Iron. Om
Guilford County, North Carolina, U. S. A.

GURRAM KONDA, 1814. Stone.
Gurram Konda, near Kadapa, Province of
Madras, India.

Gyulatelke. **MOCS**

H

Hacienda de Bocas. **BOCAS**

HAINHOLZ, 1856. Siderolite. M
Near Minden, Province of Westphalia, Prus-
sia.

HAKATA, 1897. Stone. Cga
Hakata, District of Higashi, Province of
Chikuzen, Japan.

Hamblen County. **MORRISTOWN**

Hamilton County. **CARLTON**

HAMMOND, 1884. Iron. Oh
Hammond Township, St. Croix County,
Wisconsin, U. S. A.

HANIET EL BEGUEL, 1888. Iron. Om
Seventy miles northeast of Ouargla, Prov-
ince of Alger, Algeria, North Africa.

HARRISON COUNTY, 1859. Stone. Cho
Harrison County, Southern Indiana, U. S. A.

HASSI JEKNA, 1890. Iron. Of
Near Well of Hassi Jekna, southwest of
Province of Alger, Algeria, North Africa

HAYDEN CREEK, 1895. Iron. Om
Hayden Creek, Lemli County, Idaho, U.
S. A.

HENDERSONVILLE, 1901. Stone.
Hendersonville, Henderson County, North
Carolina, U. S. A.

Henry County, 1857. **LOCUST GROVE**

Henry County, 1889. **HOPPER**

HEREDIA, 1857. Stone. Ceb
Heredia, fifteen miles from San Jose, Costa
Rica, Central America.

HESSLE, 1869. Stone. Ce
Hessle, near Upsala, Sweden.

HEX RIVER, 1882. Iron. H
Hex River Mountains, Worcester County,
Cape Colony South Africa.

HIGH POSSIL, 1804. Stone. Cw
High Possil, near Glasgow, Scotland.

HOLLAND'S STORE, 1887. Iron. Ha
Holland's Store, Chattooga County, Georgia,
U. S. A.

HOMESTEAD, 1875. Stone. Cgb
Homestead and vicinity, Iowa County,
Iowa, U. S. A.

Honduras. **ROSARIO**

HONOLULU, 1825. Stone. Cwa
Honolulu, Island of Oahu, Hawaiian Islands,
U. S. A.

HOPEWELL, Prehistoric. Iron. Om
Hopewell Mounds, Ross County, Ohio.

HOPPER, 1889. Iron. O
Hopper, Henry County, Virginia, U. S. A.

Howard County. **KOKOMO**

HRASCHINA, 1751. Iron. Om
Hraschina, near Agram, Province of Croatia,
Austria.

HUNGEN, 1877. Stone. Cga
Hungen, Grand Duchy of Hessen, Germany.

HVITTIS, 1901. Stone. Cck
Hvittis, Province of Finland, Russia.

I

IBBENBÜHREN, 1870. Stone. Chl
Ibbenbüren, Province of Westphalen,
Prussia.

Iglau. **STANNERN**

IHARAOTA, 1887. Stone. Choa
Iharaota, District of Lalitpur Northwestern
Provinces, India.

ILIMAE, 1870. Iron. Om
Ilimae, Desert of Atacama, Chili.

ILLINOIS GULCH, 1897. Iron. Dn
Near Ophir, Deer Lodge County, Montana,
U. S. A.

Imilac, 1822. Siderolite. Pi
Wells of Imilac, Province of Atacama, Chili.

Inca. **LLANO DEL INCA**

INDARCH, 1891. Stone. Kea
Indarch, near Gindorecha, District of Schus-
cha, Transcaucasia, Russia.

Independence County. **JOE WRIGHT**
 Independence. **KENTON COUNTY**
INDIAN VALEY, 1887. Iron. Ha
 Indian Valley Township, Floyd County,
 Virginia, U. S. A.
INDIO RICO, 1900. Stone. Ck
 Indio Rico, Province of Buenos Aires,
 Argentina, South America.
 Invercargill. **MAKARIWA**
IQUIQUE, 1871. Iron. De
 Ten leagues east of Iquique, Province of
 Tarapaca, Chili.
 Irapuata. **LA CHARCA**
IREDELL, 1898. Iron. H
 Six miles southwest of Iredell, Bosque
 County, Central Texas.

Iron Creek. **VICTORIA**
 Irtysh. **PAVLODAR**
 Irvin-Ainsa Iron. **TUCSON**
 Isle de France. **MAURITIUS**
ITAPICURU-MIRIM, 1879. Stone. Cc
 Itapicuru-mirim, Province of Maranhao,
 Brazil.
IVANPAH, 1880. Iron. Om
 Ivanpah, San Bernardino County, California,
 U. S. A.
 Iwate, 1880. **TOKE-UCHI-MURA**
 Ixtlahuaca. **TOLUCA**

J

Jacala. **PACULA**
JACKSON COUNTY, 1846. Iron. Om
 Jackson County, Northwest Tennessee, U.
 S. A.
 Jalisco. **TOMATLAN**
 Jamaica. **LUCKY HILL**
JAMESTOWN, 1885. Iron. Of
 Twenty miles southeast of Jamestown,
 Stutsman County, North Dakota.
JAMKHEIR, 1866. Stone. Ck
 Ahmednuggur, Bombay Presidency, India.
 Jamyschewa. **PAVLODAR**
 Janacera-Pass. **VACA MUERTA**
 Jasly. **BIALYSTOCK**
JELICA, 1899. Stone. Am
 Near Jezevica, District of Cacak, Jelica
 Mountains, Servia.
JENNY'S CREEK, 1883. Iron. Og
 Old Fork of Jenny's Creek, Wayne County,
 West Virginia, U. S. A.
JEROME, 1894. Stone. Cck
 Fifteen miles east of Jerome, Smoky Hill
 River, Gove County, Kansas, U. S. A.
JEWEL HILL, 1854. Iron. Of
 Jewel Hill, Madison County, North Carolina,
 U. S. A.

JHUNG, 1873. Stone. Cc
 Jhung, Punjab States, India.
 Jigalowka. **KHARKOW**
 Jimenez. **CHUPADEROS**
 Jodzie. **YODZE**
JOEL'S IRON, 1858. Iron. Om
 Desert of Atacama, Chili.
JOE WRIGHT, 1884. Iron. Om
 Seven miles east of Batesville, Independence
 County, Arkansas, U. S. A.
 Johannegeorgenstadt. **STEINBACH**
JONESBORO, 1891. Iron. Of
 Jonesboro, Washington County, Tennessee,
 U. S. A.
JONZAC, 1819. Stone. Eu
 Jonzac, Département de la Charente In-
 férieure, France.
JUDESEGERI, 1876. Stone. Cc
 Judesegeri, District of Tumkur, State of
 Mysore, India.
JUNCAL, 1866. Iron. Om
 Juncal, Desert of Atacama, Chili.
JUVINAS, 1821. Stone. Eu
 Juvinas, near Libonéz, Département de
 l'Ardeche, France.

K

KAABA, 1683. Stone. (Uncertain)
 In Sanctuary of the Kaaba, Mecca, Arabia.
 Kaande. **OESSEL**

KABA, 1857. Stone. K
 Kaba, southwest of Debreczin, North Bibarer
 Comitát, Hungary.

Kadonah. **AGRA**
KAEÉ, 1838. Stone. Cc
 Kaeé, District of Hardoi, Province of Oudh,
 India.
KAHANGARAI, 1890. Stone. Cc
 Kahangarai, near Tirupatur, District of
 Salem, Madras Presidency, India.
KAKOWA, 1858. Stone. Cga
 Kakowa, northwest of Orawitza, Kraschower
 Comitát, Hungary.
KALUMBI, 1879. Stone. Cwa
 Kalumbi, District of Saltara India.
 Kansada. **NESS COUNTY**
KARAKOL, 1840. Stone. Cw
 Karakol, District of Ajagus. Kirghiz Steppe,
 Central Asia.
 Karand. **VERAMIN**
KENDALL COUNTY, 1887. Iron. Hb
 Kendall County, Central Texas, U. S. A.
KENTON COUNTY, 1889. Iron. Om
 Eight miles south of Independence, Kenton
 County, Kentucky, U. S. A.
KERILIS, 1874. Stone. Cga
 Kerilis, Département des Cotes-du-Nord,
 France.
KERNOUVÉ, 1869. Stone. Cka
 Kernouvé, near Cléguée, Département de
 Morbihan, France.
KESEN, 1850. Stone. Ceb
 Grove of Buddhist Temple of Chovenji,
 Village of Kesen, Province of Hondo,
 Japan.
KHAIRPUR, 1873. Stone. Ck
 Khairpur, near Sutlej River, State of
 Bhawalpur, India.
KHARKOW, 1787. Stone. Cwa
 Jigalowka, near Kharkow, seven miles from
 Bobrik, Government of Clarkow, Russia.
KHERAGUR, 1860. Stone. Cc
 Kheragur, twenty-eight miles from Bhurt-
 poor, Northwestern Provinces, India.
KHETREE, 1867. Stone. Cgb
 Saonlod, near Khetree, Rajpitanah, North-
 western Provinces, India.

KIKINO, 1809. Stone. Cwa
 Kikino, District of Wjasemsk, Government
 of Smolensk, Russia.
KILLETER, 1844. Stone. Cwa
 Killeter, County Tyrone, Ireland.
 Klausenburg. **MOCS**
KISSIJ, 1899. Stone. Cs
 Near Tschuwasschkye Kissij, District of
 Tschistopol, Government of Kazan, Russia.
KLEIN MENOW, 1862. Stone. Cck
 Klein Menow, Grand Duchy of Mecklenburg-
 Strelitz, Germany.
KLEIN WENDEN, 1843. Stone. Ck
 Klein Wenden, near Nordhausen, Province
 of Saxony, Prussia.
KNYAHINYA, 1866. Stone. Cg
 Knyahinya, near Nagy-Berezna, Ungvarer
 Comitát, Hungary.
KODAIKANAL, 1898. Iron. Obk
 Palni Hills, Madras District, Madras Presi-
 dency, India.
KOKOMO, 1862. Iron. De
 Seven miles southwest of Kokomo, Howard
 County, Indiana, U. S. A.
KOKSTAD, 1887. Iron. Om
 Kokstad, East Griqualand, Cape Colony,
 South Africa.
 Konia. **ADALIA**
KRÄHENBERG, 1869. Stone. Cho
 Krähenberg, near Zweibrücken, Rhenish
 Bavaria.
 Krakhut. **BENARES**
 Krasnojarsk. **MEDWEDEWA**
KRASNOJ-UGOL, 1829. Stone. Cc
 Krasnoj-Ugol, District of Saposhok, Govern-
 ment of Rasan, Russia.
 Krawin. **TABOR**
KULESCHOWKA, 1811. Stone. Cwa
 Kuleschowka, District of Romener, Govern-
 ment of Poltawa, Russia.
KUSIALI, 1860. Stone. Cw
 Kusiali, District of Gurlwhal, Northwestern
 Provinces, India.

L

La Baffe. **EPINAL**
LA BECASSE, 1879. Stone. Cw
 La Becasse, Commune de Dun le Poëlier,
 Département de l'Indre, France.
 La Bella Rocca. **BELLA ROCA**
LABOREL, 1871. Stone. Cib
 Laborel, Département de la Drôme, France.

LA CAILLE, 1828. Iron. Om
 South of St. Auban. Département des Alpes
 Maritimes, France.
LA CHARCA, 1878. Stone. C
 La Charea, near Irapuato, State of Guana-
 juato, Mexico.
LA GRANGE, 1860. Iron. Of
 LaGrange, Oldham County, Kentucky, U.S.A.

La Grange, 1878. **BLUFF**
L'AIGLE, 1803. Stone. Cib
 L'Aigle and Vicinity, Département de l'Orne, France.
 Lalitpur. **IHARAOTA**
LANCÉ, 1872. Stone. Kc
 Lancé, Département de Loir-et-Cher, France.
LANCON, 1897. Stone. Cia
 Lancon, near Aix en Provence, Département des Bouches-du-Rhône, France.
LA PRIMITIVA, 1888. Iron. Dp
 Salitre, Tarapaca Desert, forty miles west of Iquique, Chili.
 Lasdany. **LIXNA**
LAUNTON, 1830. Stone.
 Launton, near Bicester, Oxfordshire, England.
 La Vivionnière. **LE TEILLEUL**
 Lea Iron. **CLEVELAND**
 Leland. **WINNEBAGO COUNTY**
LENARTO, 1814. Iron. Om
 Near Bartfeld, Saroser District, Province of Galicia, Austria.
LENORKA, 1902. Stone.
 Lenorka, Government of Poltava, Russia.
LE PRESSEIR, 1845. Stone. Cc
 Le Pressoir, Commune of Louans, Département d'Indre-et-Loire, France.
 Leric. **PULTUSK**
LES ORMES, 1857. Stone. Cw
 Les Ormes, near Joigny Département de l'Yonne, France.
LESVES, 1896. Stone. Cw
 Lesves, Province of Namur, Belgium.
LE TEILLEUL, 1845. Stone. Ho
 La Vivionnière, Commune of Le Teilleul Département de la Manche, France.
LEXINGTON COUNTY, 1880. Iron. Og
 Lexington County, South Carolina, U. S. A.
LICK CREEK, 1879. Iron. H
 Lick Creek, Davidson County, North Carolina, U. S. A.
LIME CREEK, 1834. Iron. H
 Near Claiborne, Monroe County, Alabama, U. S. A.
LIMERICK, 1813. Stone. Cgb
 Adare and vicinity, County of Limerick, Ireland.
 Lincoln County. **PETERSBURG**

Linn County. **MARION**
LINNVILLE, 1882. Iron. Db
 Linnville Mountain, Claiborne, Burke County North Carolina, U. S. A.
LINUM, 1854. Stone. Cw
 Linum, near Fehrbellin, Province of Brandenburg, Prussia.
LION RIVER, 1853. Iron. Of
 Near Bethany, Great Namaqua Land, South Africa.
 Lippe. **BARNTRUP**
LISSA, 1808. Stone. Cwb
 Lissa, District of Bunzlau, Bohemia.
LITTLE PINEY, 1839. Stone. Ce
 Pine Bluff on Gasconade River, ten miles southwest of Little Piney Pulaski County, Missouri, U. S. A.
LIXNA, 1820. Stone. Cga
 Lasdany, near Lixna, Province of Courland, Russia.
 Ljunby. **LUNDSGARD**
LLANO DEL INCA. Siderolite. M
 Llano del Inca Desert of Atacama, Chili.
 Lockport. **CAMBRIA**
LOCUST GROVE, 1857. Iron. Ds
 Locust Grove, Henry County, Georgia, U. S. A.
LODHRAN, 1868. Siderolite. Lo
 Twelve miles east of Lodhran, Mooltan, Punjab States, India.
LONACONING, 1888. Iron. Og
 Twelve miles south of Lonaconing, Allegany County, Western Maryland, U. S. A.
LONG ISLAND, 1891. Stone. Cia
 Three miles west of Long Island, Phillips County, Kansas, U. S. A.
LOSTTOWN, 1868. Iron. Om
 Two miles southwest of Losttown, Cherokee County, Georgia, U. S. A.
 Louans. **LE PRESSEIR**
 Louisa County. **STAUNTON**
LUCÉ, 1768. Stone. Cwa
 Lucé en Maine, Département de la Sarthe, France.
LUCKY HILL, 1885. Iron. Om
 Lucky Hill, St. Elizabeth, Jamaica, West Indies.
LUIS LOPEZ, 1896. Iron. Om
 Five miles southwest of Socorro, Socorro County, New Mexico, U. S. A.

LUJAN. Prehistoric. Siderolite. M
 Near Villa Lujan Province of Buenos Aires, Argentina, South America.
LUMPKIN, 1869. Stone. Cck
 Twelve miles southwest of Lumpkin, Stewart County, Georgia, U. S. A.
LUNDGÅRD, 1889. Stone. Cw
 Lundsgård, Parish of Ljunghy, Lan of Malmöhus, Sweden.

LUOTOLAKS, 1813. Stone. Ho
 Luotolaks, near Frederikshavn, Government of Viborg, Finland, Russia.
LUPONNAS, 1753. Stone. Cib
 Luponnas, sixteen miles from Ponte de Veyle, Département de l'Aine, France.
LUTSCHAUNIG, 1860. Stone. Cg
 Lutschaunig, Desert of Atacama. Chili.

M

MACAO, 1836. Stone. Cia
 Macao, north of River Assu, Province of Rio Grande, North Brazil.
 Macerata. **MONTE MILONE**
MAC KINNEY, 1870. Stone. Cs
 Eight miles southwest of MacKinney, Collin County, Texas, U. S. A.
MACQUAIRE RIVER, 1857. Siderolite. M
 Macquaire River, New South Wales, Australia.
MADOC, 1854. Iron. Of
 Madoc Township, Hastings County, Ontario Canada.
MADRID, 1896. Stone. Cwa
 Madrid, Province of Madrid, Spain.
MAEME, 1886. Stone. Cia
 Maeme, Hislugari, Province of Satsuma, Japan.
MAGURA, 1840. Iron. Og
 Magura, Comitatus Arva, Hungary.
MAINZ, 1852. Stone. Cia
 Near Mainz, Grand Duchy of Hesse, Germany.
MAKARIWA, 1879. Stone. Cgb
 Makariwa, near Invercargill, New Zealand.
MANBHOOM, 1863. Stone. Am
 Manbhoom, Bengal Presidency, India.
MANEGAUM, 1843. Stone. Chl
 Manegaum, District of Khardeish, India.
 Mani. **TOLUCA**
MANTOS BLANCOS, 1876. Iron. Of
 Mount Hicks, Desert of Atacama.
MARION, 1847. Stone. Cwa
 Nine miles from Marion, Linn County, Iowa, U. S. A.
MARJALAHTI, 1902. Siderolite. Pi
 Marjalahti Bay, Ladoga Lake, Finland Russia.
 Marmaros. **BORKUT**

MARSHALL COUNTY, 1860. Iron. Om
 Marshall County, Kentucky, U. S. A.
MART, 1898. Iron. Off
 Mart, McLennan County, Central Texas, U. S. A.
MASCOMBES, 1835. Stone. Cw
 Mascombes, Département de la Corrèze, France.
MÄSSING, 1803. Stone. Ho
 Mässing, Landgericht Eggenfeld, Bavaria.
MATATIELA, 1885. Iron. Om
 Fifteen leagues west northwest from Kokstad, East Griqualand South Africa.
MAUERKIRCHEN, 1768. Stone. Cw
 Near Mauerkirchen, Upper Austria.
MAURITIUS, 1802. Stone. Cho
 Isle aux Tonnelliers, northwestern Coast of Island of Mauritius, Indian Ocean.
 Maverick County. **FORT DUNCAN**
MAZAPIL, 1885. Iron. Om
 Rancheria de Concepcion, eight miles east of Mazapil, State of Zacatecas. Mexico.
 Mecca. **KAABA**
MEDWEDEWA, 1749. Siderolite. Pk
 Medwedewa (Krasnojarsk), Government of Jeniseisk, Central Siberia.
MEERUT, 1860. Stone.
 Meerut, Northwestern Provinces, India.
MEJILLONES, 1874. Siderolite. Mg
 Near Mejillones, Province of Atacama, Chili.
MERCEDITAS, 1884. Iron. Om
 Ten leagues east of Chanaral, Northern Chili.
MERN, 1878. Stone. C
 Mern, four miles south of Praesto, Denmark.
MEUSELBACH, 1897. Stone. Ceka
 Meuselbach, Amt. Gehren, Principality of Schwartzburg Rudolstadt, German Empire.

- MEXICO**, 1859. Stone. Cgb
Mexico, Province of Pampanga, Island of Luzon, Philippine Archipelago.
- MEZO-MADARAS**, 1852. Stone. Cgb
Near Mezo-Madaras, Province of Transylvania, Austria.
- Mezquital. **SAN FRANCISCO DE MEZQUITAL**
- MHOW**, 1827. Stone. Ci
Mhow, District of Azamgarh, Northwestern Provinces, India.
- MIDDLESBOROUGH**, 1881. Stone. Cw
Pennyman's Siding, near Middlesborough, County of York, England.
- Midt Vaage. **TYSNES**
- MIGHEI**, 1889. Stone. K
Mighei, District of Elisabethgrad, Government of Kherson, South Russia.
- Mikenskoj. **GROSSNAJA**
- MILENA**, 1842. Stone. Cw
Pusinsko Selo, Warasdiner, Comitit, Croatia, Austria.
- MINAS GERAES**, 1888. Stone. Cwa
Province of Minas Geraes, Brazil.
- MINCY**, 1860. Siderolite. M
Mincy, Taney County, Missouri U. S. A.
- MISSHOF**, 1890. Stone. Ce
Manor of Misshof, eight miles west-southwest of Baldoln, Province of Kurland, Baltic Provinces, Russia.
- MISTECA**, 1804. Iron. Om
(Yanhuitlan) State of Oaxaca, Mexico.
- MOCS**, 1882. Stone. Cwa
Mocs and vicinity, Province of Transylvania, Austria.
- MOCTEZUMA**, 1899. Iron. Om
Moctezuma, State of Sonora, Mexico.
- MOLINA**, 1858. Stone. Cgb
Molina, Province of Murcia, Spain.
- MONROE**, 1849. Stone. Cga
Cabarras County, eighteen miles south of Monroe, Union County, North Carolina, U. S. A.
- Montargis. **CHATEAU RENARD**
- Montauban. **ORGUEIL**
- MONTE MILONE**, 1846. Stone. Cwb
Ten miles from Macerata, Province of Rome, Italy.
- MONTLIVAUT**, 1838. Stone. Cw
Département de Loir-et-cher, France.
- Montrejean. **AUSSON**
- MOONBI**, 1892. Iron. Of
Near Tamworth, New South Wales, Australia.
- MOORADABAD**, 1808. Stone. Cw
Mooradabad, Northwest Provinces, India.
- MOORANOPPIN**, 1893. Iron. Ogg
Fifty miles west of Coolgardie, Lansdown County, West Australia.
- MOORESFORT**, 1810. Stone. Ccb
Moorefort, County of Tipperary, Ireland
- Maranhao. **ITAPICURU-MIRIM**
- MORDVINOVKA**, 1826. Stone. Cw
Mordvinovka, thirty miles southeast of Pavlograd, Government of Ekaterinoslaw, Southern Russia.
- Morelos. **AMATES**
- MORITO**, 1600. Iron. Om
El Morito, near Hacienda of San Gregorio, Valle de Allende, State of Chihuahua, Mexico.
- MORNANS**, 1875. Stone. Cga
Mornans, Département de la Drome, France.
- MORRADAL**, 1892. Iron. Db
Morradal, near Grjotien, Skiaker District, Norway.
- MORRISTOWN**, 1887. Siderolite. Mg
Hamblen County, Tennessee, U. S. A.
- MOTEEKA NUGLA**, 1868. Stone. Ck
Biana District, State of Bhurtpur, Rajputana States, India.
- MOTTA DI CONTI**, 1838. Stone. Ce
Motta di Conti, District of Sasale, Piedmont, Italy.
- MOUNT BROWNE**, 1902. Stone. Ce
Mount Browne, Evely County, New South Wales, Australia.
- MOUNT DYRRING**, 1903. Siderolite. Pk
Mount Dyrring, eight miles north of Bridgman, Singleton District, New South Wales, Australia.
- Mount Hicks. **MANTOS BLANCOS**
- MOUNT JOY**, 1887. Iron. Ogg
Five miles southeast of Gettysburg, Adams County, Pennsylvania, U. S. A.
- Mount Ouray. **UTE PASS**
- MOUNT STIRLING**, 1892. Iron. Og
Mount Stirling, sixty miles east of York, West Australia.
- MOUNT VERNON**, 1868. Siderolite. Pk
Mount Vernon, Christian County, Kentucky, U. S. A.
- MOUNT ZOMBA**, 1899. Stone. Cwa
Zomba, Nyassa Land, British South Africa.
- Muchachos. **TUCSON**

- MUDDOOR**, 1865. Stone. Ce
Near Annay Doddi, State of Mysore, Madras Presidency, India.
- MÜHLAU**, 1877. Stone. Ce
Near Innsbruck, Tyrol, Austria.
- MUKEROP**, 1899. Iron. Off
Near Bethany, District of Gibeon, Great Namaqua Land, Southwest Africa.
- MUNGINDI**, 1897. Iron. Off
Mungindi, Southern Queensland, Australia.
- MURCIA**, 1858. **MOLINA**
- Murcia, 1870. **CABEZZO DE MAYO**
- MURFREESBORO**, 1847. Iron. Om
Murfreesboro, Rutherford County, Central Tennessee, U. S. A.
- MURPHY**, 1839. Iron. H
Murphy, Cherokee County, North Carolina, U. S. A.
- Muskingum County. **NEW CONCORD**
- NAGERIA**, 1875. Stone.
District of Agra, Northwestern Provinces, India.
- NAGY-BOROVE**, 1895. Stone. Cg
Nagy-Borove, Liptauer Comitit, Hungary.
- Nagy-Divina. **GROSS-DIVINA**
- NAGY-VAZSONY**, 1890. Iron. Om
Near Vörös-Bereny, Veszprimer Comitit, Western Hungary.
- NAMMIANTHAL**, 1886. Stone. Cca
Nammiantal, District of South Arcot, Madras Presidency, India
- Namur. **LESVES**
- NANJEMOY**, 1825. Stone. Ce
Nanjemoy, Charles County, U. S. A.
- NARRABURRA CREEK**, 1854. Iron. Ogg
Twelve miles east of Temora, New South Wales, Australia.
- Nash County. **CASTALIA**
- NAWAPALI**, 1890. Stone. K
Nawapali, Sambhalpur District, Central Provinces, India.
- Nebraska. **FORT PIERRE**
- NEDAGOLLA**, 1870. Iron. Dn
Nedagolla, near Parvatipur, Vizagapatam District, Madras Presidency, India.
- NEJED**, 1863. Iron. Om
Wadee Banee Khaled, District of Nejed, Central Arabia.
- NELLORE**, 1852. Stone. Ce
Yatoor, near Nellore, Madras, India.
- NELSON COUNTY**, 1860. Iron. Ogg
Nelson County, Kentucky, U. S. A.
- NENNTMANNSDORF**, 1872. Iron. H
Nen-tmannsdorf, eleven miles southeast of Pirna, Saxony.
- NERFT**, 1864. Stone. Cia
Province of Kurland, Baltic Provinces, Russia.
- NESS COUNTY**, 1893. Stone. Cib
Kansada, Franklinville, Wellmansville, and other localities in Ness County Kansas, U. S. A.
- Netschaevo. **TULA**
- Newberry. **RUFF'S MOUNTAIN**
- NEW CONCORD**, 1860. Stone. Cia
New Concord and vicinity, Guernsey County, Ohio, U. S. A.
- New Granada. **RASGATA**
- Newton County. **MINCY**
- NGAWI**, 1883. Stone. Cen
Gentoeng and vicinity, Département of Ngawi, Presidency of Madioen, Java.
- N'GOUREMA**, 1900. Iron. Obzg
M'Gourena, 20 miles north of Koakowin, Port of Jenneh on Island of Massina, Province of Massina, Upper Niger, Soudan, Africa.
- NIAGARA**, 1879. Iron. Og
Niagara, Grand Forks County, North Dakota, U. S. A.
- Nickolaew. **BISCHTÜBE**
- NOBLEBOROUGH**, 1823. Stone. Ho
Near Nobleborough, Lincoln County Maine, U. S. A.
- NOCHTUISK**, 1876. Iron. Og
Nochtuisik Government of Yakutsk, East Siberia.
- NOCOLECHE**, 1895. Iron. Om
Near Wanaaring, forty miles northwest of Bourke, New South Wales.
- NOGOYA**, 1879. Stone. K
Between Nogoya and Concepcion, Province of Entre Rios, Argentine Republic.
- Nord Brabant. **UDEN**
- NOVO UREI**, 1886. Stone. U
Novo Urei, Government of Penza, Province of Kazan, Russia.
- NULLES**, 1851. Stone. Cgb
Nulles and vicinity, northwest of Tarragona, Province of Spain.

O

OAKLEY, 1895. Stone. Ck
Fifteen miles southeast of Oakley, Logan
County, U. S. A.

Oaxaca. **MISTECA**

OBERNKIRCHEN, 1863. Iron. Of
Near Bückeberg, Westphalia, Central Prussia.

Ocatitlan. **TOLUCA**

Ochansk. **TABORY**

OCZERETNA, 1871. Stone. Cga
Oczeretna Lipowitz, Government of Kief,
Southern Russia.

Odessa. **GROSS LIEBENTHAL**

OESSEL, 1855. Stone. Cw
Estate of Kaande, Island of Oesel, Province
of Livonia, Baltic Province Russia.

O-FEHERTO, 1900. Stone. C
O-Feherto, near Nyiregyhaza Comitatus, Sza-
boles, Hungary.

Ogi, 1730. Stone. Cw
Temple of Fukachi, Ogi, Province of Hizen,
Japan.

OHABA, 1857. Stone. Cga
Ohaba, near Veresegyhaza, Blasendorf Dis-
trict, Siebenbürgen, Hungary.

OKNINY, 1834. Stone. Cgb
Kremenetz Circle, Government of Volhynia,
Russia.

OKTIBBEHA. Prehistoric. Iron. Db
Oktibbeha County, Mississippi, U. S. A.

ORANGE RIVER, 1856. Iron. Om
Garieb, Orange River, Southwest Africa.

ORGUEIL, 1864. Stone. K
Near Montauban, Département Tarn et
Garonne, France.

ORNANS, 1868. Stone. Cco
Near Salins, Doubs, France.

OROVILLE, 1893. Iron. Om
Oroville, Bath County, Northern California,
U. S. A.

ORVINIO, 1872. Stone. Co
Orvinio and vicinity, Province of Perugia,
Italy.

OSCURO MOUNTAINS, 1895. Iron. Og
Oscuro Mountains, Socorro County, New
Mexico, U. S. A.

OSHIMA, 1886. Stone.
Oshima Mura Tsa Gori, Province of Satsuma,
West Coast of Japan

Otsego County. **BURLINGTON**

OTTAWA, 1896. Stone. Clio
Franklin County, Kansas, U. S. A.

Otumpa. **CAMPO DEL CIELO**
Ouareglia. **HANIEL EL-BENGUEL**

Oued Mequiden. **HASSI JEKNA**

OVIEDO, 1856. Stone. Cw
Oviedo, Province of Asturias, Spain.

Oynchimura. **YENSIGAHARA**

P

PACULA, 1881. Stone. Cwb
Three miles east of Pacula, District of
Jacula, State of Hidalgo, Mexico.

Paderborn. **HAINHOLZ**

PALEZIEUX 1901. Stone. Cck
Northwest of Chervettaz, near Palezieux,
Canton of Lausanne, Switzerland.

Pallas Iron. **MEDWEDEWA**

PAMPANGA, 1859. Stone. Cg
Province of Pampanga, Philippine Islands.

PAN DE AZUCAR, 1887. Iron. Og
Attacama, Chili.

Papasquiaro. **BELLA ROCA**

PARNALLEE, 1857. Stone. Cga
Parnallee, sixteen miles south of Madras
Presidency, of Madras, Inda.

PAVLOWKA, 1882. Stone. Ho
District of Balashev, Government of Sara-
towch, Russia.

PAVLODAR, 1885. Siderolite. Pk
Pavlodar, Jamesheva, Semipalatinsk, Gov-
ernment of Tomsk, West Siberia.

Pegu. **QUENGGOUK**

PERAMIHO, 1899. Stone. Eu
Mission Station in Songea District, German
West Africa.

PERSIMMON CREEK, 1903. Iron. Om
Persimmon Creek, Cherokee County, North
Carolina, U. S. A.

PERTH, 1830. Stone. C
North Inch, Scotland

Perugia. **ASSISI**

PETERSBURG, 1855. Stone. Ho
Near Petersburg, Lincoln County, Tennessee,
U. S. A.

PETROPAPLOVSK, 1841. Iron. Om
Patropavlovsk on Mrass River, Government
of Akmolinsk. West Siberia.

Phillips County. **LONG ISLAND**

PHU LONG, 1887. Stone. Cca
Phu Long, Canton of Binh Chanh, Coch-
China.

Pila. **RANCHO DE LA PILA**

PILLISTFER, 1863. Stone. Ck
Pillistfer, District of Fellin, Province of
Courland, Western Russia.

Pine Bluff. **LITTLE PINEY**

PIPE CREEK, 1887. Stone. Cka
Near Pipe Creek, thirty-five miles southwest
of San Antonio, Texas, U. S. A.

PIQUETBERG, 1881. Stone. Cca
Cape Colony, South Africa.

PIRGUNJE, 1882. Stone. Cwa
Dinagapur, Province of Bengal, India.

Pirna. **NENNTMANNSDORF**

PIRTHALLA, 1884. Stone. Ccb
District of Hissar, Punjab, India.

PITTSBURG, 1850. Iron. Ogg
Miller's Run, Allegheny County, Pennsyl-
vania, U. S. A.

PLOSKHOKWITZ 1723. Stone. Ccb
Bunzlau, Bohemia.

PLYMOUTH, 1893. Iron. Om
Plymouth, Marshall County, Eastern In-
diana, U. S. A.

PNOMPEHN, 1868. Stone. Cw
Pnompehn, Cambodia, French Indo-China.

POHLITZ, 1819. Stone. Cwa
Pohlitz, near Gera, Principality of Reuss-
Gera, Prussia.

Poitiers. **VOUILLÉ**

POKHRA, 1866. Stone. Ck
Pokhra, near Bustee Northwest Provinces,
India.

PONTA GROSSA, 1846. Stone.
Province of Parana, Brazil. (Doubtful iden-
tity).

Poplar Hill. **CRANBERRY PLAINS**

Port Orford (doubtful). **ROGUE RIVER**

Powder Mill Creek **CRAB ORCHARD**

PRAIRIE DOG CREEK, 1893. Stone. Cck
Prairie Dog Creek, Decatur County, Kansas,
U. S. A.

PRAMBANNAN, 1797. Iron. Off
Prambanan, Soeracarta Presidency, Central
Java.

Praskoles. **ZEBRAK**

PRICETOWN 1893. Stone. Cw
Pricetown, Highland County, Ohio.

PULSORA, 1863. Stone. Cib
Near Rutlam, State of Indore, India.

PULTUSK, 1868. Stone. Cgb
Pultusk and vicinity, Poland, Russia.

PUQUIOS, 1885. Iron. Om
Puquios, eight miles east of Copiapo, Chili.

Pusinsko Selo. **MILENA**

PUTNAM COUNTY, 1839. Iron. Of
Putnam County, Georgia U. S. A.

Q

QUEENSLAND, 1894. Iron. Og
Uncertain locality, South Queensland, Aus-
tralia.

QUENGGOUK, 1857. Stone. Cc
Quenggouk, Bassein District, Pegu, British
Burmah.

QUESA, 1898. Iron. Of
Quesa, District of Enguera, Province of
Valencia, Spain.

QUINCAY, 1851. Stone. Cgb
Quincay, Département de la Vienne, France

R

RAFRÜTI, 1886. Iron. Dn
Rafrüti, Emmenthal, Canton of Berne
Switzerland.

RAKOVKA, 1878. Stone. Ci
Rakovka, Government of Tula, Russia.
Ranchito. **BACUBIRITO**

RANCHO DE LA PILA, 1804. Iron. Om
Nine leagues East of Durango, State of
Durango, Mexico.

RANCHO DE LA PRESA, 1899. Stone.
Rancho de la Presa, District of Zempapuearo,
State of Michoacan, Mexico.

RASGATA, 1810. Iron. Ds
Santa Rosa Province of Boyaca, Republic
of Columbia, U. S. A.

RED RIVER, 1808. Iron. Om
Cross Timbers, Head Waters of Red River,
Texas, U. S. A.

REED CITY, 1895. Iron. Om
Reed City, Osceola County Michigan, U.
S. A.

RENAZZO, 1824. Stone. Cs
Renazzo, near Cento, Province of Ferrara,
Italy.

RHINE VALLEY, 1901. Iron. Om
Rhine Villa, South Australia.

RICHMOND, 1828. Stone. Cck
Seven miles southwest of Richmond, Hen-
rico County, Virginia, U. S. A.

Rittersgrün. **STEINBACH**

ROCHESTER, 1876. Stone. Ce
Near Rochester, Fulton County, Indiana,
U. S. A.

RODA, 1871. Stone. Ro
Near Huesca, Province of Huesca, Spain

S

SABETMAHET, 1885. Stone. C
Eleven miles northwest of Balrampur,
Gonda District, Province of Oudh, India.

SACRAMENTO MOUNTAINS, 1896. Iron. Om
Sacramento Mountains, Lincoln County,
New Mexico U. S. A.

SAINT CAPRAIS DE QUINSAC, 1883
Stone. Ci
Département de la Gironde, France.

SAINT CHRISTOPHE-LA-CHARTREUSE,
1841. Stone. Of
District of Roches Servieres, Vendee,
France.
Little known of this stone.

SAINT DENNIS WESTREM, 1855. Stone. Cca
Near Ghent, Flanders, Belgium.

SAINT FRANCOIS COUNTY, 1863. Iron. Og
Saint Francois County, Southeastern Mis-
souri, U. S. A.

SAINT GENEVIEVE, 1888. Iron. Of
Saint Genevieve County, Southeastern Mis-
souri, U. S. A.

SALINE, 1898. Stone. Cck
Saline Township, Sheridan County, Kansas,
U. S. A.

Salitra. **LA PRIMITIVA**

SALLES, 1798. Stone. Cia
Salles, near Lyons, Département du Rhone,
France.

RODEO, 1850. Iron. Om
Rodeo, seventy miles north of Durango,
State of Durango, Mexico.

ROEBOURNE, 1892. Iron. Om
Roebourne, Northwest Australia.

Rokicky. **BRAHIN**

Roquefort. **BARBOTAN**

ROSARIO, 1897. Iron. Og
Rosario. Northern Honduras.

ROWTON, 1876. Iron. Om
Seven miles north of the Wrekin, Welling-
ton, Shropshire England.

RUFF'S MOUNTAIN, 1844. Iron. Om
Ruff's Mountain, Lexington County, South
Carolina, U. S. A.

RUSHVILLE, 1866. Stone. Cg
Five miles south of Brockville, Franklin
County, Indiana, U. S. A.

RUSSEL GULCH, 1863. Iron. Of
Russel Gulch, Gilpin County, Colorado.

Rutherford County. **COLFAX**

Saltillo. **COAHUILA**

SALT LAKE CITY, 1869. Stone. Cgb
Between Salt Lake City and Echo, Utah,
U. S. A.

SALT RIVER, 1850. Iron. Off
Twenty miles south of Louisville, Bullit
County, Kentucky, U. S. A.

SAN ANGELO, 1897. Iron. Om
San Angelo, Tom Green County, Central
Texas, U. S. A.

Sanchez Estate. **COAHUILA**

SAN CHRISTOBAL, 1896. Iron. DI
San Christobal, Province of Atacama, Chili.

SAN EMIGDIO, 1887. Stone. Ce
San Emigdio Range, Bernardino County,
California, U. S. A.

SAN FRANCISCO DEL MEZQUITAL, 1868.
Iron. Ds
(Mezquital) State of Durango, Mexico.

San Gregorio. **MORITO**

SAN PEDRO SPRINGS, 1887. Stone. Cw
San Pedro Springs, near San Antonio, Bexar
County, Texas, U. S. A.

SANTA APOLONIA, 1872. Iron.
State of Tlaxcala, Mexico.

Santa Catharina (Terrestrial). **MORO DI RICCIO**

Santa Rosa. **COAHUILA**

Santa Rosa. **TOCAVITA**

Santiago del Estero. **CAMPO DEL CIELO**

SAO JULIAO DE MOREIRA, 1883. Iron. Ogg
Near Ponte de Lima, Province of Minho,
Portugal.

Sarbanovac. **SOKO BANJA**

SAREPTA, 1854. Iron. Og
Thirty miles north of Sarepta, Government
of Saratov, Eastern Russia.

Saskatschewan. **VICTORIA**

Satsuma. **YENSHIGAHARA**

SAUGUIS, 1868. Stone. Cwa
Sauguis-Saint-Etienne, Département des
Basses Pyrenees, France.

Saurette. **APT**

SAWTSCHENSKOJE, 1894. Stone. Cck
Sawtschenskoje, District of Tiraspol, Govern-
ment of Cherson, Russia.

Scheikahr-Stattan. **BUSCHHOF**

SHELLIN, 1715. Stone. Cia
Schellin, near Stargard, Province of Pomer-
ania, Prussia.

SCHOLAKOV, 1814. Stone. Cwa
Scholakov, Government of Ekaterinoslaw,
Russia.

SCHÖNENBERG, 1846. Stone. Cwa
Schönenberg, near Pfaffenhausen, Suabia.

Schuscha. **INDARCH**

SCHWETZ, 1850. Iron. Om
Near Culm, Eastern Prussia.

SCOTTSVILLE, 1867. Iron. H
Near Scottsville, Allen County, Kentucky
U. S. A.

SEARSMONT, 1871. Stone. Ce
Searsmont, Waldo County, Maine, U. S. A.

SEELASGEN, 1847. Iron. Ogg
Seelasgen, Province of Brandenburg, Central
Prussia.

SEGOWLEE, 1853. Stone. Ck
Fourteen miles east of Bettiah, District of
Chumparun, State of Bengal, India.

Semipalatinsk. **PAWLODAR**

SENA, 1773. Stone. Cgb
Sena, District of Sigena, Amagon, Spain.

SENECA FALLS, 1850. Iron. Om
Seneca Falls, near Waterloo, Seneca County,
New York, U. S. A.

Seneca River. **SENECA FALLS**

SENEGAL 1716. Iron. Ds
Bambuk, Upper Senegal, West Africa.

SENHADJA, 1865. Stone. Cwa
Senhadja, near Aumale, Province of Alger,
Algeria, South Africa.

SERES, 1818. Stone. Cg
Seres, Province of Macedonia, Turkey.

SERRANIA DE VARAS, 1875. Iron. Of
Varas, Desert of Atacama, Chili.

SEVILLA, 1862. Stone. Cho
Sevilla, Province of Sevilla, Spain.

SEVRUKOVO, 1874. Stone. Cs
Sevrukovo, District of Belgorod, Govern-
ment of Kursh, Central Russia.

SHALKA, 1850. Stone. Chl
Shalka, near Bishunpur, District of Ban-
kookra, Province of Bengal, India.

SHERGOTTY, 1865. Stone. She
Unijhiawar, Shergotty District, Province of
Bengal, India.

SHINGLE SPRINGS, 1869. Iron. Dsh
Shingle Springs, E. Dorado County. Cali-
fornia, U. S. A.

SHYTAL, 1863. Stone. Cib
Shytal, Madhurpur Jungles, Province of
Bengal, India.

SIENA, 1794. Stone. Ch
Campagna Sanese, near Siena, Province of
Tuscany, Italy.

SIERRA BLANCA, 1874. Iron. Og
Near Huejuquilla, Canton of Jimenez, State
of Chihuahua, Mexico.

Sierra de Chaco. **VACA MUERTA**

Sierra de Deesa, 1865. **COPIAPO**

Sigena. **SENA**

Signet Iron. **CARLETON-TUCSON**

Sikkensaare. **TENNASSILM**

SILVER CROWN, 1887. Iron. Og
Twenty-one miles west of Cheyenne, Lara-
mie County, U. S. A.

Simbirsk, 1818. **SLOBODKA**

SINDHRI, 1901. Stone. Ce
Khipro Jaluka, District of Ibar and Parker,
Bombay, India.

Siratik. **SENEGAL**

SKI, 1848. Stone. Cwa
Ski, near Krogstat, Amt Akershuus, Nor-
way.

SLAVETIC, 1868. Stone. Cgb
Between Agram and Jaska, Croatia, Austria.

SLOBODKA, 1818. Stone. Ce
Slobodka, District of Juchnow, Government
of Smolensk, Russia.

SMITHLAND, 1839. Iron. Db
Smithland, Livingston County, Western
Kentucky, U. S. A.

SMITH'S MOUNTAIN, 1863. Iron. Of
Near Madison, Rockingham County, North
Carolina, U. S. A.

SMITHVILLE, 1840. Iron. Og
(Cary Fort) DeKalb County, Tennessee,
U. S. A.

Smoky Hill River. **PRAIRIE DOG CREEK**

SOKO BANJA, 1877. Stone. Cc
Banja and vicinity, near Alexinae, Kingdom
of Servia.

SONE MURA, 1866. Stone. Om
Sone Mura, Province of Yamba, Japan.

Springbok River. **GREAT FISH RIVER**

SSYROMOLOTOV, 1873. Iron. Om
Angara, Government of Yeniseisk, Eastern
Siberia.

Staartje. **UDEN**

STÄLLDALEN, 1876. Stone. Cgb
Ställdalen, near Kopparberget, Län of Ore-
bro, Sweden.

STANNERN, 1808. Stone. Eu
Stannern and vicinity, District of Iglau,
Moravia, Austria.

STAUNTON, 1858. Iron. Om
Staunton, Augusta County, Virginia, U. S. A.

STAVROPOL, 1857. Stone. Ck
Petrovsk, near Stavropol, Causassia, Russia.

STEINBACH, 1724. Siderolite. Si
Rittersgrün, Saxony, and Breitenbach, Bo-
hemia.

SUMMIT, 1870. Iron. Ha
Near Summit, Blount County, Alabama,
U. S. A.

SUPUHEE, 1865. Stone. Cgb
Near Supuhee, District of Goruckpur,
Northwestern Provinces, India.

Surakarta. **PRAMBRANAN**

SURPRISE SPRINGS 1899. Iron. Om
Surprise Springs, near San Bernardino County
California, U. S. A.

Szadany. **ZSADANY**

T

TABARZ, 1854. Iron. Og
Foot of the Inselberg Saxe-Gotha, Thuringen,
Prussia.

TABOR, 1753. Stone. Ceb
Tabor, District of Bechin, Bohemia.

TABORY, 1877. Stone. Ceb
Tabory and vicinity, District of Ochansk,
Government of Perm, East Russia.

TADJERA, 1867. Stone. Ct
Plains of Tadjera, ten miles northwest of
Setif. Province of Constantine, Algeria,
Africa.

TAJGHA, 1891. Iron. Om
Tajgha, near Krasnojarsk, Government of
Jeniseisk, Siberia.

Taney County. **MINCY**

TANOGAMI, 1880. Iron. Om
Mount Tanogami, Kurifoto District, Prov-
ince of Omi, Japan.

TAZEWELL, 1853. Iron. Off
Ten miles west of Tazewell, Claiborne County,
East Tennessee, U. S. A.

Temora. **NARRABURRA CREEK**

TENNASSILM, 1872. Stone. Cca
Farm of Sikkensarre, District of Jerwen,
Province of Esthland, Baltic Provinces,
Russia.

TENNANT'S IRON, 1784. Og
Collection of Agricultural College near
Moscow, Russia.

TEPOSOLULA, 1804. Iron. Of
(Yanhuitlan) State of Oaxaca, Mexico.

Terek. **GROSNAJA**

TEOCALTICHE, 1903. Iron. O
Canton of Teocaltiche, State of Jalisco,
Mexico.

TERNERA, 1891. Iron. De
Sierra de Ternera, Atacama Chili.

Terni. **COLLESCIPOLI**

THUNDA, 1886. Iron. Om
Windorah, Diamantina District, Queensland,
Australia.

THURLOW, 1895. Iron. Of
Thurlow, Hastings County, Canada.

TIESCHITZ, 1878. Stone. Ce
Near Tieschitz, District of Prerau, Province
of Moravia, Austria.

TIMOCHIN, 1807. Stone. Ce
District of Juchnow, Government of Smo-
lensk, Central Russia.

Tipperary 1810. **MOORESFOOT**

TJABE, 1869. Stone. Ck
District of Pandangan, Residency of Rem-
bang, Java.

TLACOTEPEC, 1903. Iron. O
Tlacotepec, District of Tecamachalco, State
of Pueblo, Mexico.

Tocavita. **SANTA ROSA**

TOKE UCHI MURA, 1880. Stone. Ck
Yofugori, Tamba, Japan.

TOLUCA, 1784. Iron. Om
Niquipileo, Mani, Ixtlahuaca, Ocotlan, Valley
of Toluca, State of Mexico, Mexico.

TOMATLAN, 1879. Stone. Ce
Hacienda d'El Gargantillo, eight miles north-
west of Tomatlan State of Jalisco, Mexico.

TOMHANNOCK, 1863. Stone. Cgb
Tomhannock Creek, Rensselaer County, New
York, U. S. A.

TONGANOXIE, 1886. Iron. Om
Tonganoxie, Leavenworth County, Kansas,
U. S. A.

TOUBIL, 1891. Iron. Om
Two hundred and fifty miles north of
Krasnojarsk, District of Atchinsk, Gov-
ernment of Jeniseisk, Siberia.

TOULOUSE, 1812. Stone. Cia
Toulouse and vicinity, Canton of Grenade,
Département de la Haute Garonne,
France.

TOUNKIN, 1824. Stone. Cg
Fortress of Tounkin, two hundred and
sixteen verst west southwest of Irkutsk,
Siberia.

TOURINNES-LA-GROSSE, 1863. Stone. Cw
Tourinnes-la-Grosse, near Louvain, Belgium.

TRAVIS COUNTY, 1889. Stone. Cs
Travis County, Central Texas, U. S. A.

TRENTON, 1858. Iron. Om
Trenton, Washington County, Wisconsin.

TRENZANO, 1856. Stone. Cca
Ten miles west-southwest of Brescia, Prov-
ince of Brescia, Italy.

Tschistopol. **KISSIJ**

TUCSON, 1851. Iron. Dm
Muchachos, Ainsa-Signet mass., Carleton-
Tucson mass. State of Sonora, Mexico.
Later transferred to Tucson, Arizona,
U. S. A.

Tucuman. **CAMPO DEL CIELO**

TULA, 1846. Iron. Obn
Netschaev, Government of Tula, Central
Russia.

TYSNES, 1884. Stone. Cgb
Estate of Midtvaage, Island of Tysnes,
Hardanger Fjord, Amt Gergenhus, Nor-
way.

U

UDEN, 1840. Stone. Cwb
Staartje, near Voelkel, District of Uden,
Province of North Brabant, Holland.

UDIPI, 1866. Stone. Cga
Udipi, District of Canara, Malapar Coast,
Southern India.

UMBALLA, 1822. Stone. Cga
Forty miles west of Umballa, Punjab
States, India.

VACA MUERTA, 1861. Siderolite. Mg
Llano de Vaca Muerta, Desert of Atacama,
Chili.

VAGO, 1668. Stone. Ci
Vago, near Caldiero, east of Verona, Italy.

VAVILOVKA, 1876. Stone. Ro
Vavilovka, Government of Cherson, South-
ern Russia.

VERAMIN, 1880. Siderolite. M
Plain of Veramin, twelve miles east of
Teheran, Persia.

VERNON COUNTY, 1865. Stone. Cka
Vernon County, Wisconsin, U. S. A.

UNION COUNTY, 1853. Iron. Ogg
Union County, Northern Georgia, U. S. A.

UTE PASS, 1894. Iron. Ogg
Ute Pass, Summit County, Colorado, U. S. A.

UTRECHT, 1843. Stone. Cca
Blaauw Capel, near Utrecht, Province of
Utrecht, Holland.

V

VICTORIA, 1871. Iron. Om
Saskatchewan on Iron Creek, northwest of
Edmonton, British America.

VICTORIA WEST, 1862. Iron. Ov
Victoria West, Central Cape Colony, South
Africa.

VIRBA, 1874. Stone. Cwa
Virba (Wirba), Widcin, Bulgaria.

Vizigapatam. **NEDAGOLLA**

VOUILLE, 1831. Stone. Cia
Vouille, near Poitiers, Département de la
Vienne, France.

WACONDA, 1873. Stone. Ccb
Two miles from Waconda, Mitchell County,
Kansas.

Wadee Bancee Khaled. **NEJED**

WAIRARAPA, 1864. Stone. C
Five miles from Turanaki, Province of
Wellington, New Zealand.

W

WALDRON'S RIDGE, 1887. Iron. Og
Near Tazewell, Claiborne County, Ten-
nessee, U. S. A.

WALKER COUNTY, 1832. Iron. H
Walker County, Northwestern Alabama,
U. S. A.

WARRENTON, 1877. Stone. Cco
Five miles from Warrenton, Warren County,
Missouri, U. S. A.
Washington.

FARMINGTON

WEAVER, 1898. Iron. H
Weaver Mountain, near Wickenburg, Mari-
posa County, Arizona, U. S. A.

WELLAND, 1888. Iron. Om
Welland, Welland County, Ontario, Canada.

WERCHNE DNEPROWSK, 1876. Iron. Off
Werchne Dneprowsk, Government of Ekater-
inoslow, Russia.

WERCHNE TSCHIRSKAJA, 1843. Stone. Cca
Province of the Don Cossacks, South Rus-
sia.

WERCHNE UDINSK, 1854. Iron. Om
Transbaikalia, Central Siberia

WESSELY, 1831. Stone. Cga
Estate of Wessely, near Znorow, District of
Moravia, Austria.

X

Xiquipilco.

TOLUCA**Y**

YANHUITLAN, 1804. Iron. Of
Yanhuitlan, twelve miles northwest of
Teposcolula, State of Oaxaca, Mexico.

YARDEA STATION, 1875. Iron. Om
Four miles south of Yardea Station, Gawler
Range, South Australia.

YATOOR, 1852. Stone. Ce
Yatoor, near Nellore, Presidency of Madras,
India.

YODZE, 1877. Stone. Hob
Yodze, near Ponevej, Government of Kovno,
Baltic Russia.

Z

ZABORZIKA, 1818. Stone. Cwa
Zaborizka, near River Slutsch, south of
Nograd-Volhynsk, Government of Vol-
hynia, West Russia.

ZABRODJE, 1893. Stone. Cia
Zabrodje, Government of Wilha, Baltic Rus-
sia.

ZACATECAS, 1792. Iron. Obz
A few miles southwest of Zacatecas, State
of Zacatecas, Mexico.

West Liberty.

HOMESTEAD

WESTON, 1807. Stone. Ccb
Weston and vicinity, Fairfield County,
Connecticut, U. S. A.

White Sulphur Springs.

GREENBRIER COUNTY.

WICHITA, 1836. Iron. Og
Wichita County, Northern Texas, U. S. A.
Windorah.

THUNDA

WILLAMETTE, 1902. Iron. Om
Near Willamette, Clackamas County, North-
ern Oregon, U. S. A.

WITMESS, 1785. Stone. Ce
Forest of Witmess, six miles southwest of
Eichstädt, Province of Mittel Franken,
Bavaria.

WOLD COTTAGE, 1795. Stone. Cwa
Wold Cottage, County of York, England.

WOOSTER, 1858. Iron. Om
Wooster, Wayne County, Ohio.

YOKOHIMA. Siderolite (doubtful).
Yokohima, Hiokoine, Japan.

YONATSU, 1836. Stone.
Bay of Tominaga, District of Kambara,
Province of Echigo, North Japan.

Yorktown.

TOMHANNOCK CREEK

YOUNDEGIN, 1884. Iron. Og
Penkarring Rock, seventy miles east of
York, West Australia.

ZAVID, 1897. Stone. Cia
Zavid and vicinity, near Rozanj, District
of Zvornik, Province of Bosnia, Austria.

ZEBRAK, 1824. Stone. Ce
Zebra, near Horowic, District of Beraun,
Bohemia.

ZMENJ, 1858. Stone. Ho
Zmenj, near Stolín, Government of Minsk,
Russia.

ZSADANY, 1875. Stone. Ce
Zsadany and vicinity, Temesvar Comitát,
Hungary.

V. GEOGRAPHICAL DISTRIBUTION OF ALL KNOWN METEORITES,

ACCORDING TO COUNTRIES.

NORTH AMERICA.**BRITISH AMERICA AND CANADA**

Beaver Creek *S 1893
De Cewsville S 1887
Madoc I 1854
Thurlow I 1888
Victoria I 1871
Welland I 1888

UNITED STATES

Abert Iron I
Admire Sid 1902
Algoma I 1887
Allegan S 1899
Andover S 1889
Arlington I 1894
Ashville I 1839
Auburn I 1867
Babbs Mill I 1842
Bald Eagle I 1891
Bath S 1892
Bath Furnace S 1902
Bear Creek S 1866
Bethlehem S 1859
Bishopville S 1843
Black Mountain I 1835
Bluff S 1878
Brenham Sid 1885
Bridgewater I 1890
Burlington I 1819
Butler I 1874
Cabin Creek I 1886
Cambria I 1818
Canyon City I 1875
Canon Diablo I 1891
Canton I 1894
Cape Girardeau S 1846
Carlton I 1887
Carthage I 1844
Casey County I 1877
Castalia S 1874
Castine S 1848
Central Missouri I 1885
Charlotte I 1835
Chesterville I 1847

Chileat	I 1881	Homestead	S 1875
Chulafinee	I 1873	Hopper	I 1889
Cincinnati	I 1898	Illinois Gulch	I 1899
Cleveland	I 1860	Indian Valley	I 1887
Colfax	I 1880	Iredell	I 1898
Coopertown	I 1860	Ivanpah	I 1880
Cosby's Creek	I 1840	Jackson County	I 1846
Costilla Peak	I 1881	Jamesown	I 1885
Crab Orchard	Sid 1887	Jenny's Creek	I 1883
Cranberry Plains	I 1852	Jerome	S 1894
Cross Roads	S 1892	Jewel Hill	I 1854
Cynthiana	S 1877	Joe Wright	I 1884
Dakota	I 1863	Jonesboro	I 1891
Dalton	I 1877	Kendall County	I 1887
Danville	S 1868	Kenton County	I 1889
Deal	S 1829	Kokomo	I 1862
Deep Spring	I 1846	La Grange	I 1860
Denton County	I 1856	Laurens County	I 1857
Drake Creek	S 1827	Lexington County	I 1880
Duel Hill	I 1873	Lick Creek	I 1879
Eagle Station	Sid 1880	Lime Creek	I 1834
El Capitan	I 1893	Linville	I 1882
Emmitsburg	I 1854	Little Piney	S 1839
Estherville	Sid 1879	Locust Grove	I 1857
Farmington	S 1890	Lonacening	I 1888
Felix	S 1900	Long Island	S 1892
Ferguson	S 1889	Losttown	I 1867
Fisher	S 1894	Luis Lopez	I 1896
Forest	S 1890	Lumpkin	S 1869
Forsyth	S 1829	Mac Kinney	S 1870
Forsyth County	I 1895	Marion	S 1847
Fort Duncan	I 1852	Marshall County	I 1860
Fort Pierre	I 1856	Mart	I 1898
Franceville	I 1890	Mincy	Sid 1856
Frankfort	I 1866	Monroe	S 1849
Glorieta Mountain	I 1884	Morrisown	Sid 1887
Grand Rapids	I 1883	Mount Joy	I 1887
Greenbrier County	I 1880	Mount Vernon	Sid 1868
Guilford County	I 1820	Murfreesboro	I 1847
Hammond	I 1884	Murphy	I 1899
Harrison County	S 1859	Nanjeroy	S 1825
Hayden Creek	I 1891	Nelson County	I 1860
Hendersonville	S 1901	Ness County	S 1893
Hollands Store	I 1887	New Concord	S 1860
		Niagara	I 1879

*S = Stone. I = Iron. Sid = Siderolite.

Nobleborough	S 1823	Shingle Springs	I 1869	Bocas	S 1884
Oakley	S 1895	Silver Crown	I 1887	Cacaria	I 1867
Oktibbeha	I 1857	Smithland	I 1839	Casas Grandes	I Prehist.
Oroville	I 1894	Smith's Mountain	I 1863	Charcas	I 1804
Oscuro Mountain	I 1895	Smithville	I 1840	Chichimeguilas	I 1901
Ottawa	S 1896	Staunton	I 1858	Chupaderos	I 1852
Persimmon Creek	I 1903	Summit	I 1890	Coahuila	I 1837
Petersburg	S 1855	Surprise Springs	I 1899	Cosina	S 1844
Pipe Creek	S 1887	Tazewell	I 1853	Descubridora	I 1780
Pittsburg	I 1850	Tombigbee River	I 1878	El Tule	I 1889
Plymouth	I 1893	Tom Hannon Creek	S 1863	La Charca	S 1878
Port Orford (?)	Sid 1859	Tonganoxie	I 1886	Mazapil	I 1885
Prairie Dog Creek	S 1893	Travis County	S 1889	Misteca	I 1804
Pricetown	S 1893	Trenton	I 1858	Moctezuma	I 1899
Putnam County	I 1839	Union County	I 1854	Morito	I 1600
Red River	I 1808	Ute Pass	I 1894	Pacula	S 1881
Reed City	I 1895	Vernon County	S 1865	Rancho de la Pila	I 1804
Richmond	S 1828	Waconda	S 1874	Rancho de la Presa	S 1899
Rochester	S 1876	Waldron Ridge	I 1887	Rodeo	I 1850
Ruffs Mountain	I 1850	Walker County	I 1832	San Francisco del	
Rushville	S 1866	Warrenton	S 1877	Mexiquital	I 1867
Russel Gulch	I 1863	Weaver	I 1898	Santa Apolonia	I 1872
Sacramento Mountains	I 1896	Weston	S 1807	Sierra Blanca	I 1804
Saint Francois County	I 1863	Wichita	I 1836	Teocaltiche	I 1903
Saint Genevieve	I 1888	Willamette	I 1902	Tepecolula	I 1804
Saline	S 1898	Wooster	I 1832	Tlaco-tepec	I 1903
Salt Lake City	S 1869			Toluca	I 1784
Salt River	I 1850	Adargas	I 1780	Tomatlan	S 1879
San Angelo	I 1897	Amates	I 1889	Tucson	I 1660
San Emigdio	S 1887	Apoala	I 1890	Yanhuitlan	I 1804
San Pedro Springs	S 1887	Arispe	I 1898	Zacatecas	I 1792
Scottsville	I 1867	Avilez	S 1850		
Searsmont	S 1871	Bacubirito	I 1871		
Seneca Falls	I 1850	Bella Roca	I 1888		

CENTRAL AMERICA AND WEST INDIES.

COSTA RICA	HONDURAS	JAMAICA	CUBA
Heredia S 1857	Rosario I 1897	Lucky Hill I 1885	Cuba I 1857

SOUTH AMERICA.

COLOMBIA				PATAGONIA
Rasgata I 1810	Imilac Sid 1800			Caperr I 1869
Santa Rosa I 1810	Joel's Iron I 1858			
	Juncal I 1866			ARGENTINE
	La Primitiva I 1888			Campo del Cielo I 1783
	Llano del Inca Sid 1888			Indio Rico S 1900
	Lutschaunig S 1860			Lujan Sid 1892
	Mejillones Sid 1874			Nogoya S 1879
	Merceditas I 1884			BRAZIL
	Pan de Azucar I 1887			Angra dos Reis S 1869
	Puquios I 1885			Bendago I 1784
	San Cristobal I 1896			Itapieur Mirim S 1879
	Serrania de Varas I 1875			Macao S 1836
	Ternera I 1891			Minas Geraes S 1888
	Vaca Muerta Sid 1861			Santa Barbara S 1893

CHILI

Barranca Blanca	I 1855
Cachiyuyal	I 1874
Calderilla	Sid 1883
Careote	S 1888
Copiapo	I 1863
Dona Inez	Sid 1888
Iquique	I 1871
Ilmae	I 1870

EUROPE.

ENGLAND			PORTUGAL
Aldsworth S 1835	Le Teilleul S 1845		Sao Juliao I 1883
Launton S 1830	Luce S 1768		
Middlesborough S 1881	Luponnas S 1753		
Rowton I 1876	Marmande S 1848		
Wold Cottage S 1795	Mascombes S 1835		
	Montlivault S 1838		
	Mornans S 1875		
	Orgueil S 1864		
	Ornans S 1868		
	Quineay S 1851		
	Saint Mesmin S 1866		
	Salles S 1798		
	San Caprais de Quin-		
	sac S 1843		
	San Christopher la Char-		
	treuse S 1841		
	Sauguis S 1868		
	Toulouse S 1812		
	Vouille S 1831		
IRELAND			
Crumlin S 1902			
Dundrum S 1865			
Killeter S 1844			
Limerick S 1813			
Moorefort S 1810			
SCOTLAND			
High Possil S 1804			
Perth S 1830			
FRANCE			
Agen S 1814			
Alais S 1806			
Angers S 1822			
Apt S 1803			
Asco S 1805			
Aubres S 1836			
Aumieres S 1842			
Ausson S 1858			
Barbotan S 1790			
Bueste S 1859			
Chantonmay S 1812			
Charsonville S 1810			
Chassigny S 1815			
Chateau Renard S 1841			
Clohars S 1822			
Epinal S 1822			
Esnandes S 1837			
Favars S 1844			
Galapian S 1826			
Grazac S 1885			
Groslee I 1812			
Jonsac S 1819			
Juvinas S 1821			
Kerilis S 1874			
Kernouve S 1819			
La Becasse S 1879			
Laborel S 1871			
La Caille I 1828			
L'Aigle S 1803			
Lance S 1872			
Lancon S 1897			
Le Pressoir S 1845			
Les Ormes S 1857			
ITALY			
Albareto S 1766			
Alessandria S 1860			
Alfianello S 1883			
Assisi S 1886			
Borgo San Donino S 1808			
Cereseto S 1840			
Collescipoli S 1890			
Girgenti S 1853			
Monte Milone S 1846			
Motta di Conti S 1868			
Orvinio S 1872			
Renazzo S 1824			
Siena S 1794			
Trenzano S 1856			
Vago S 1668			
SPAIN			
Barea Sid 1842			
Berlanguillas S 1811			
Cabezzo de Mayo S 1870			
Canellas S 1861			
Cangas de Onis S 1866			
Gerona S 1899			
Guarena S 1892			
Madrid S 1896			
Molina S 1858			
Nulles S 1851			
Oviedo S 1856			
Quesa I 1898			
Roda S 1871			
Sevilla S 1862			
Sena S 1773			
GERMANY			
Barntrup S 1886			
Bitburg Sid 1802			
Bremervörde S 1855			
Darmstadt S 1804			
Ensisheim S 1492			
Erxleben S 1812			
Gnadenfrei S 1879			
Grüneberg S 1841			
Gütersloh S 1851			
Hainholz Sid 1856			
Hungen S 1877			
Ibbenbüren S 1870			
Klein-Menow S 1862			
Klein-Wenden S 1843			
Krähenberg S 1869			
Linum S 1854			
Mainz S 1852			
Meuselbach S 1897			
Nenntrannsdorf I 1872			
Obernkirchen I 1863			
Politz S 1819			
Schellin S 1715			
Schönenberg S 1846			
Schwet S 1850			
Seelasgen I 1847			
Steinbach Sid 1724			
Tabarz I 1854			
Witmess I 1785			
AUSTRIA			
Alt-Biela I 1899			
Blansko S 1833			
Bohumilitz I 1829			
Braunau I 1847			
Elbogen I 1785			
Lenarto I 1814			
Lissa S 1808			
Mauerkirchen S 1768			
Mezo-Madaras S 1852			
Milena S 1842			
Mocs S 1882			
Mühlau S 1877			
Ploschkowitz S 1723			
Slaveti S 1868			
Stannern S 1808			
Tabor S 1753			
Tieschitz S 1878			
Wessely S 1831			

VI. TAXONOMY.

The classification which we have adopted in this catalogue is that of Dr. Aristides Brezina, of Vienna, whose study and published investigations of Meteorites have placed him for the last quarter of a century in leading rank among European workers in this field.

Dr. Brezina—for many years director of the Mineral Cabinets of the Royal Museum of Vienna—first announced and employed his system of classification in the catalogue of the Meteorites of this great museum in 1885. In a second catalogue, in 1896, he repeated the same classification with such modifications as further study and the general advance of the science—largely due to added discoveries and new meteorite falls—had induced.

Now, under date of January, 1904, Dr. Brezina has favored me with his last revision of his system, with the privilege of here presenting it for the first time in printed form

DR. BREZINA'S SYSTEM OF METEORITE CLASSIFICATION.*

I. STONES. Silicates Prevalent.

A. ACHONDRITES.

Stones poor in Iron. In the main without round Chondri.

1. Chladnite (Chl). Chiefly Bronzite.
Ibbenbüren. Manegaon. Shalka.
2. Chladnite, veined (Chla). Bronzite, black or metallic veined.
Bishopville.
3. Angrite (A). Chiefly Augite.
Angra dos Reis.
4. Chassignite (Cha). Chiefly Olivine.
Chassigny.
5. Bustite. (Bu). Bronzite with Augite.
Aubres. Bustee.
6. Amphoterite (Am). Bronzite with Olivine.
Jelica. Manbhoon.
7. Rodite (Ro). Bronzite with Olivine, breccialike.
Bandong. Roda. Vavilovka.
8. Eukrite (Eu). Augite with Anorthite.
Adalia. Constantinople. Jonzac. Juvinas. Peramiho. Stannern.
9. Shergottite (She). Augite with Maskelynite.
Shergotty (Umjhiawar).

* N. B.—While following Dr. Brezina's text as closely as possible in our English translation of his manuscript as to the definitions of the groups, we have taken the liberty of giving our own chosen names for the meteorites themselves which he has ranged under each group. This has been essential for the unity of our catalogue. Nothing will be perverted by our giving as our accepted name to a given meteorite what he has given as synonym of the same fall.

10. Howardite (Ho). Bronzite, Olivine, Augite and Anorthite.
Bialystock. Frankfort. La Vivionnière. Luotolaks. Nobleborough. Pavlovka. Petersburg. Saint Nicolas. Zmenj.
11. Howardite, breccialike (Hob). Bronzite, Olivine, Augite and Anorthite, breccialike.
Yodze.
12. Leucituranolite (L). Leucite, Anorthite, Augite and Glass.
Schafstädt.

B. CHONDRITES.

Bronzite, Olivine and Nickel Iron. With Round or Rounded and Polyhedral Chondri.

13. Howarditic Chondrite (Cho). Polyhedral Segregations preponderating, round Chondri scarce. Crust bright in parts.
Borgo San Donino, Harrison County, Krähenberg, Mauritius, Ottawa, Santa Barbara, Sevilla, Siena. Sitathali.
14. Howarditic Chondrite, veined (Choa). Polyhedral Segregations preponderating, round chondri scarce. Metallic or black veins.
Iharaota. (Lalitpur).
15. White Chondrite (Cw). White, rather friable mass with few Chondri, mostly white.
Baehmut, Bocas, Cabozzo de Mayo, De Cewsville, Dolgowoli, High Possil, Karakol, Kusali, La Becasse, Les Ormes, Lesves, Linum, Lundsgard, Mascombes, Mauerkirchen, Middleborough, Milena, Montlivault, Mooradabad, Mordvinovka, Cesel, Ogi, Oviedo, Phompehn, Pricetown, San Pedro, Tourinnes.
16. White Chondrite, veined (Cwa). White, rather friable mass with few, chiefly white, Chondri. Metallic or black veins.
Allahabad, Angers, Asco, Aumieres, Bherai, Buschhof, Castine, Chandpur, Drake Creek, Dhulia, Forsyth, Galapian, Girgenti, Gross Liebenthal, Honolulu, Kalumbi, Kharkow, Killeter, Kikino, Kuleschovka, Lucc, Madrid, Marion, Minas Geraes, Moes, Pirgunje, Politz, Sauguis, Schönenberg, Scholokov, Senhadja, Ski, Slobodka-Partsch, Virba, Wold Cottage, Zaborzika, Zomba.
17. White Chondrite, breccialike (Cwb). White, rather friable mass with few, chiefly white, Chondri, breccialike.
Aleppo, Gerona, Lissa, Monte Milone, Pacula, Uden.
18. Intermediate Chondrite (Ci). Firm, polishable mass, white and gray Chondri, breaking with matrix.
Alfianello, Butsura, Canellas, Charwallas, Dhurmsala, Deal, Favars, Mhow, Rakowka, Saint Caprais, Vago.
19. Intermediate Chondrite, veined (Cia). Firm, polishable mass, white and gray Chondri, breaking with matrix.
Agen, Barntrop, Batı Furnace, Berlanguillas, Bori, Chateau Renard, Dandapur, Durala, Duruma, Fisher, Ghambat, Krähenberg, Lancon, Long Island, Macao, Maeme, Mainz, Nerft, New Concord, Orange River, Salles, Schellin, Toulouse, Vouille, Zabrodje, Zavid.
20. Intermediate Chondrite, brecciated (Cib). Firm, polishable mass, white and gray Chondri, breaking with matrix, breccialike.
Bielokrynitschie, Chandakapur, Laborel, L'Aigle, Luponnas, Ness County, Pulsora, Saint Mesmin, Shytal.

21. Gray Chondrite (Cg). Firm, gray mass, Chondri of various kinds, breaking with matrix.
Botschetschki, Cross Roads, Cynthiana, Esnandes, Higashi Koen, Knyahinya, Lutschaunig, Nagy Borove, Seres, Tounkin.
22. Gray Chondrite, veined (Cga). Firm, gray mass, Chondri of various kinds breaking with matrix, veined.
Agra, Aldsworth, Alesandria, Apt, Barbotan, Blansko, Charsonville, Cronstadt, Danville, Darmstadt, Fukutomi Grüneberg, Hungen, Kakowa, Kerilis, Lasdany, Leric, Monroe, Mornans, Ozeretna, Ohaba, Parnallee, Udipi, Umballa, Wessely.
23. Gray Chondrite, breccialike (Cgb). Firm, gray mass, Chondri of various kinds, breaking with matrix, breccialike.
Akburpur, Assam, Barraita, Borodino, Beuste, Cangas de Onis, Castalia, Chantonny, Clohars, Doroninsk, Homestead, Khetrie, Limerick, Makariwa, Mezō-madaras, Mexico, Molina, Nulles, Okniny, Pultusk, Quincey, Salt Lake City, Sera, Slavetic, Supuhee, Stålldalen, Tomhannock, Tynes.
24. Orvinite (Co). Black, infiltrated mass; fluidal structure; surface uneven; discontinuous crust.
Orvinio.
25. Tadjerite (Ct). Black, semi-glassy mass without crust on surface.
Tadjera.
26. Black Chondrite (Cs). Dark or black mass, Chondri mostly of various colors, breaking with matrix.
Bishunpur, Grossnaya, MacKinney, Renazzo, Sevrukovo.
27. Black Chondrite, veined (Csa). Dark or black mass, Chondri of various colors in the main, breaking with matrix; veined.
Farmington.
28. Ureilite (U). Black mass, chondritic or granular, iron in veins or incoherent.
Dyalpur, Goalpara, Nowo Urei.
29. Carbonaceous Chondrite (K). Dull black, friable Chondri with free carbon and of low specific gravity, metallic iron nearly or wholly wanting.
Alais, Cold Bokkeveld, Grazac, Kaba, Mighei, Nogoya, Nawapali, Orgueil.
30. Carbonaceous Chondrite, spherulitic (Kc). Dull gray or black friable mass with free carbon; chondri not breaking with matrix, metallic nickel-iron.
Felix, Lancé.
31. Carbonaceous Chondrite, spherulitic, veined (Kca). Dull black, firm mass with free carbon; Chondri not breaking with matrix, metallic nickel-iron; metallic veins.
Indareh.
32. Spherulitic Chondrite (Cc). Friable mass with firm Chondri of radiate structure, not breaking with matrix.
Albareto, Andover, Assisi, Ausson, Avilez, Benares, Bjelaja-Zerkov, Borkut, Cape Girardeau, Collescipoli, Epinal, Gradenfrei, Gopalpur, Gross Divina, Guca, Hesse, Itapicuru-Mirim, Jhung, Judesegeri, Kae, Kheragur, Krasnoj Ugol, Le Pressoir, Misshof, Montignac, Motta di Conti, Mount Browne, Muddoor, Mühlau, Nanjemoy, Nellore, Pine Bluff, Praskoles, Quenggouk, Rochester, San Emigdio, Seasmont, Sindhri, Slobodka, Sokobanja, Tieschitz, Timochin, Tomatlan, Torre, Witmess, Yatoor, Zebrak, Zsadan.

33. Spherulitic Chondrite, veined (Cca). Friable mass with firm Chondri of radiate structure, not breaking with matrix; black or metallic veins.
Bjurböle, Nammianthal, Phu Hong, Piquetberg, Saint Denis, Tennassilm, Trenzano, Utrecht, Werchne Tschirskaja.
34. Spherulitic Chondrite, breccialike (Ccb). Friable, breccialike mass with firm Chondri of radiate structure, not breaking with matrix.
Bath, Bremervörde, Cereseto, Feid Chair, Forest, Gütersloh, Heredia, Kesen, Krawin, Mooresfort, Ploshkowitz, Tabory, Waconda, Weston.
35. Ornansite (Cco). Friable mass of Chondri.
Allegan, Ornans, Warrenton.
36. Ngawite (Ccn). Friable, breccialike mass of Chondri.
Ngawi.
37. Spherulitic Chondrite, crystalline (Cck). Slightly friable crystalline mass with firm Chondri of radiate structure, some breaking with matrix.
Ambapur Nagla, Beaver Creek, Bethlehem, Jerome, Lumpkin, Menow, Palézieux, Prairie Dog Creek, Richmond, Saline, Sawtschenskoje.
38. Spherulitic Chondrite, crystalline, veined (Ccka). Slightly friable crystalline, veined mass with firm Chondri of radiate structure, some breaking with matrix.
Meuselbach.
39. Spherulitic Chondrite, crystalline, breccialike (Cckb). Slightly friable, crystalline, breccialike mass with firm Chondri of radiate structure, some breaking with matrix.
Pirthalla.
40. Crystalline Chondrite (Ck). Hard crystalline mass with firm Chondri of radiate structure, breaking with matrix.
Careote, Cosina, Daniel's Kuil, Djati-Pengilon, Dundrum, Erleben, Gilgoi Station, Guarena, Indio Rico, Khairpur, Klein-wenden, Moteeka-Nugla, Oakley, Pillistfer, Pokra, Segowlie, Simbirk-Partsche, Stavropol, Tjabe, Toke-uchi-mura.
41. Crystalline Chondrite, veined (Cka). Hard, crystalline, veined mass with firm Chondri of radiate structure, breaking with matrix.
Kernouvé, Pipe Creek, Vernon County.
42. Crystalline Chondrite, breccialike (Ckb). Hard, crystalline, breccialike mass with firm Chondri of radiate structure, breaking with matrix.
Bluff, Ensisheim, Egheo.

C. ENSTATITE-ANORTHITE-CHONDRITES.

Enstatite, Anorthite and Nickel Iron with Round Chondri.

43. Crystalline Enstatite-Anorthite-Chondrite (Cek). Hard crystalline mass with firm Chondri of radiate structure, breaking with matrix.
Hvittis.

D. SIDEROLITES.

Transition of Stones to Iron. Nickel-Iron in the mass cohering and showing as separate grains in section.

44. Mesosiderite (M). Crystalline Olivine and Bronzite with Iron.
Barea, Dona Inez, Estherville, Hainholz, Llaño del Inca, Lujan, Miney, Veramin.
45. Grahamite (Mg). Crystalline Olivine, Bronzite and Plagioclase with Iron.
Crab Orchard, Morristown, Vaca Muerta.
46. Lodhranite (Lo). Granular, crystalline Olivine and Bronzite with Nickel Iron.
Lodhran.

II. IRONS. Metallic Constituents Prevalent or Forming Entire Mass.

E. LITHOSIDERITES.

Transition from Stones to Iron. Nickel-Iron cohering in mass and in sections.

47. Siderophyre (Si). Grains of Bronzite with accessory Asmanite in Trias.
Steinbach.
48. Pallasite. Krasnojarsk Group (Pk). Rounded Crystals of Olivine in Trias
Anderson, Brenhan, Calderilla, Finmarken, Medwedewa, Mount Dyring, Mount Vernon,
Pavlodar, Port Orford.
49. Pallasite. Rokicky Group (Pr). Polyhedral crystals of Olivine, partly
broken, and fragments separated by Nickel-Iron.
Admire, Brahine, Eagle Station.
50. Pallasite. Imilac Group (Pi). Olivine crystals fissured and compressed.
Imilac, Marjalahti.
51. Pallasite. Albacher Group (Pa). Olivine crystals in fine, brecciated Trias.
Albacher Mühle.

F. OCTAHEDRITES.

Kamacite, Taenite and Plessite in Lamellae. Concameration of the four octahedron faces.

52. Finest Octahedrite (Off). Lamellae up to 0.2 mm. in thickness.
Bacubirito, Ballinoo, Butler, Carlton, Cowra, Grosslè, Laurens, Mart, Mukerop, Mungindi,
Salt River, Tazewell, Tocavita, Werchne Dnieprowsk.
53. Fine Octahedrite. Victoria Group (Ofv). Not well defined.
Victoria West.
54. Fine Octahedrite (Of). Thickness of Lamellae 0.2-0.4 mm.
Alt Biela, Apoola, Augustinowka, Bear Creek, Bella Roca, Bethany, Boogaldi, Bridge-
water, Cambria, Charlotte, Chupaderos, Cuernavaca, Grand Rapids, Hassi Jekna,
Jamestown, Jewell Hill, Jonesboro, La Grange, Madoc, Mantos Blancos, Misteca,
Moonbi, Obernkirchen, Prambanan, Putnam County, Quesa, Russel Gulch, Saint Gene-
vieve, Serrania de Varas, Smith's Mountain, Thurlow, Yanhuatlan.

55. Medium Octahedrite (Om). Thickness of Lamellae 0.5-1.0 mm.

Abert Iron, Adargas, Algoma, Arlington, Baird's Farm, Bald Eagle, Burlington, Cabin
Creek, Caperr, Cape York, Carthage, Charcas, Chulafinnee, Cleveland, Coopertown,
Costilla Peak, Daiton, Dellys, Denton, Deseubridora, Elbogen, El Capitan, Emmits-
burg, Fort Pierre, Frankfort, Guilford, Haniet-el-Beguel, Hayden Creek, Hraschina,
Ivanpah, Jackson, Joe Wright, Joels Iron, Juncal, Kenton County, Kokstad, LaCaille,
Lenarto, Losttown, Lucky Hill, Marshall County, Matatiela, Mazapil, Merceditas,
Misteca, Moctezuma, Morito, Murfreesboro, Nagy-Vazsony, Nejed, Nocolche,
Orange River, Croville, Persimmon Creek, Petropavlovsk, Plymouth, Puquios,
Rancho de la Pila, Reed City, Red River, Rhine Valley, Rodeo, Roebourne, Rowton,
Ruff's Mountain, Russell Gulch, Sacramento Mountains, San Angelo, Schwetz, Seneca
Falls, Ssyromolotow, Staunton, Surprise Springs, Tajgha, Tarapaca, Thunda, Toluca,
Tomatlan, Tonganoxie, Toubil, Trenton, Victoria, Welland, Werchne Udinsk, Wooster.

56. Broad Octahedrite (Og). Thickness of Lamellae 1.5-2.0 mm.

Bendego, Bischtube, Black Mountain, Bohumilitz, Cañon Diablo, Casey County, Crai-
bourne, Cosby's Creek, Duel Hill, Jenny's Creek, Lexington County, Lonaconing, Magura,
Mount Stirling, Niagara, Nochtuisk, Oscuro Mountains, Pan de Azucar, Queensland,
Rosario, Saint Francois County, Sarepta, Sierra Blanca, Silver Crown, Smithville,
Tabarz, Waldron Ridge, White Sulphur Springs, Wichita, Wilamette, Youndegin.

57. Broadest Octahedrite (Ogg). Thickness of Lamellae 2.5 mm. and more.

Arispe, Central Missouri, Dakota, Mooranoppin, Mount Joy, Narrabura Creek, Nelson
County, Pittsburg, Sao Juliao de Moreira, Seelägen, Union County, Ute Pass.

58. Brecciated Octahedrite. Kodaikanal Group (Obk). Fine Octahedrite, bree-
ciated, with grains of Silicate
Kodaikanal.

59. Brecciated Octahedrite. Netschaev Group (Obn). Medium Octahedrite,
with grains of Silicate.
(Netschaev.) Tula.

60. Brecciated Octahedrite. Zacatecas Group (Obz). Grains of Octahedral Iron
with Spherules of Troilite.

Barranca Blanca, Tocavita, Zacatecas.

61. Brecciated Octahedrite. N'Gourema Group (Obzg). Molten and drawn-
out Iron of Zacatecas type.
N'Gourema.

62. Brecciated Octahedrite. Copiapo Group (Obe). Octahedral Iron and Silicate
Grains mixed.
Copiapo.

63. Octahedrite. Hammond Group (Oh). Lamellae blended with dark or black
points.
Cacaria, Hammond, Reed City.

G. HEXAHEDRITES.

Structure and Cleavage Hexahedral.

64. Normal Hexahedrite, not granular (H).

Auburn, Braunau, Coahuila, Fort Duncan, Hex River, Iredell, Lick Creek, Lime Creek,
Murphy, Nemtinsdorf, Scottsville, Walker County, Weaver.

- Bingara, Hollands Store, Indian Valley, Mejillones, Summit, Tombigbee River.

- Kendall County.

Structure Interrupted.

- Cape of Good Hope, Iquique, Kokomo, Ternera.

- Shingle Springs.

- Babb's Mill, Deep Springs, Morradal, Octibbeha, Smithland.

- Dehesa, Linnville, San Cristobal, Ternera.

- Forsyth, Illinois Gulch, Nedagolla, Rafrüti, Wöhler's Iron.

- Campo del Cielo, Chesterville, Cincinnati, Locust Grove, Rasgata, San Francisco del Mezquital, Senegal.

- La Primitiva.

- Muchachos.

N. B.—On the following page is given the Taxonomic status of the Ward-Coonley collection. In the summary to this, where "Localities existing" are given at '610,' it is intended to say that there are 610 kinds (out of a total recorded number of reputed Meteorites of about 680) which are so well known and studied that their taxonomic position has been fairly established.

ACCORDING TO DR. BREZINA'S SYSTEM OF CLASSIFICATION.

ACHON- DRITES.	Localities existing.	Localities represented.	CHONDRITES.—Continued.			OCTAHEDRITES.—Continued.		
Chl	3	3	Ced	3	3	Og	31	30
Chla	1	1	Cen	1	1	Ogg	12	12
A	1	1	Cek	11	11	Obk	1	1
Cha	1	1	Ceka	1	1	Obn	1	1
Bu	2	2	Cekb	1	1	Obz	3	3
Am	2	2	Ck	19	18	Obzg	1	1
Ro	3	3	Cka	3	3	Obe	1	1
Eu	6	3	Ckb	3	3	Oh	3	3
She	1	1	Cek	1	1			
Ho	9	9				12	186	183
Hob	1	1	31	317	292	Groups	98% represented	
L	1	1	Groups	92% represented				
12	31	28	SIDERO- LITES.	Localities existing.	Localities represented.	HEXA- HEDRITE.	Localities existing.	Localities represented.
Groups	93% represented		M	9	9	H	13	13
CHON- DRITES.	Localities existing.	Localities represented.	Mg	3	3	Ha	6	6
Cho	9	8	Lo	1	1	Hb	1	1
Choa	1	1	3	13	13	3	20	20
Cw	27	25	Groups	100% represented		Groups	100% represented	
Cwa	37	33	LITHO- SIDERITES.	Localities existing.	Localities represented.	ATAXITE.	Localities existing.	Localities represented.
Cwb	6	6	Si	1	1	De	4	4
Ci	11	10	Pk	9	8	Dsh	1	1
Cia	25	22	Pr	3	3	Db	5	5
Cib	9	9	Pi	2	2	DI	3	3
Cg	10	8	Pa	1	1	Dn	5	5
Cga	25	24	5	16	15	Ds	7	7
Cgb	29	28	Groups	93% represented		Dp	1	1
Co	1	1	OCTAHE- DRITES.	Localities existing.	Localities represented.	Dm	1	1
Ct	1	1	Off	14	14	8	27	27
Cs	6	6	Ofv	1	1	Groups	100% represented	
Csa	1	1	Of	32	31	SUMMARY.		
U	3	3	Om	86	85	Groups existing	74	
K	9	7				Groups represented	74	
Ke	2	2				Localities existing	610	
Kca	1	1				Localities represented	578	
Cc	48	43				Proportion of latter	95%	
Cca	9	8						
Ccb	14	13						

VIII. SUMMARY OF COLLECTION.

Total number of falls and finds	603
(Siderites, 241; Siderolites, 28; Aerolites, 334.)	
From North America	229
“ South America	31
“ Europe	213
“ Asia	77
“ Africa	27
“ Australasia and Sandwich Islands	26
Total weight of entire collection	2,495,429 grammes (= 5,509 pounds).
Average weight of each kind	4,138 grammes (= 9½ pounds).
Average weight, counting nothing over 50 kilograms	
to a kind	1,746 grammes (= 3½ pounds).
Total number of specimens, large and small, about	1,600



STYLE OF MOUNTING USED IN ENTIRE COLLECTION.
(Pedestals solid mahogany, with celluloid labels.)

ERRATUM.

Two Siderites—Copiapo, No. 246, and Hopewell, No. 253—were placed by mistake among the Siderolites.

IX. ADJUNCT MATERIAL.

In addition to the systematic series of Meteorites described in the previous pages, the Ward-Coonley collection contains some further series of representative and illustrating material. These are as follows:

Chondri	from Allegan and Bjurböle Aerolites.
Cohenite	“ Cañon Diablo Siderite.
“	“ Beaconsfield Siderite.
Graphite	“ Cosby's Creek Siderite and others.
Olivine	“ Brenham Siderolite, Marjalahti and others.
Rhabdite	“ Misteca and Descubridora Siderites.
“	“ Rancho de la Pila Siderite.
Schreibersite	“ São Julião Siderite.
Taenite	“ Magura Siderite.
“	“ Welland Siderite.
Troilite	“ Toluca and Bella Roca.
“	“ Chupaderos, and other Siderites.

MICRO-SECTIONS.

An important adjunct to the collections for purposes of Meteorite petrography is a series of microscopic sections of sixty different Aerolites.

Meteoric dust collected by Baron Nordenskiöld on snow-fields of Northern Finland.

TERRESTRIAL—NATIVE IRON WITH METEORITE ANALOGIES.

	Grammes.
Noursoak Peninsula, West Greenland	350
Ovifak, Disko Island, West Greenland	10,816
Canaan, Conn.	44
Santa Catherina, Brazil	3,637
Cohenite from Niakornak Iron, West Greenland	2

Specimens of Terrestrial Rocks having analogies of composition or of inner or outer structure allying them in fact or in appearance to Meteorites—pitting, polishing, etc.

Unconsumed grains of coarse cannon-powder, worn and pitted by force of air. Stout branch (short section) cut from tree by fall of the Andover Aerolite.

LIBRARY.

The collection is accompanied by Prof. Ward's large collection of Meteorite works (books and pamphlets), over eight hundred numbers, with monographs covering about half of all described Meteorites. This is a union of the Bement, Gregory and Siemaschko Meteorite libraries, with that of Mr. Ward's compiling.

N. B.—There are several score of duplicate books and pamphlets which will willingly be given in exchange for other Meteorite literature not already in this library.

X. CASTS OF METEORITES.

SIDERITES.

- Babb's Mills**, Greene County, Tenn. Mentioned 1842.
Size, 13 x 25 x 90 cm. Original weight 136 kilograms.
- Bald Eagle**, near Williamsport, Pa. Found 1891.
Size, 8 x 12 x 22½ cm. Original weight 3.3 kilograms.
- Ballinoo**, West Australia. Found 1893.
Size, 11 x 27 x 34 cm. Original weight 42.9 kilograms.
- Bella Roca**, Durango, Mexico. Found 1888.
Size, 14 x 20 x 34 cm. Original weight 33 kilograms.
- Bingara**, New South Wales. Found 1880.
Size, 4 x 4 x 5 cm. Original weight 240 grammes.
- Braunau**, Hauptmannsdorf, Bohemia. Fell July 14, 1847.
Size, 14 x 19 x 22 cm. Original weight 19.1 kilograms.
- Bugaldi**, New South Wales, Australia. Found 1900.
Size, 5 x 8 x 13 cm. Original weight 2 kilograms.
- Cabin Creek**, Johnson Co., Arkansas. Fell March 27, 1886.
Size, 11 x 38 x 42 cm. Original weight 44.2 kilograms.
- Carlton**, Hamilton County, Texas. Found 1887.
Size, 23 x 33 x 45 cm. Original weight 81.5 kilograms.
- Chilcat**, Portage Bay, Chilcat Inlet, Alaska. Fell 1871 (?)
Size, 15 x 31½ x 33 cm. Original weight 42.5 kilograms.
- Chupaderos**, Chihuahua, Mexico. Found 1581.
Size, 51 x 154 x 184 cm. Original weight 9,289 kilograms.
- Chupaderos**, second (largest) mass.
Size, 61 x 195 x 256 cm. Original weight 1,400 kilograms.
(These models, made by the Mexican Government, are of *papier maché*.)
- Cleveland (Lea Iron)**, East Tennessee. Found 1860.
Size, 20 x 40 x 48 cm. Original weight 115.2 kilograms.
- Costilla Peak**, New Mexico. Found 1881.
Size, 13 x 23 x 31 cm. Original weight 35.3 kilograms.
- Franceville**, El Paso County, Colorado. Found 1890.
Size, 11 x 21 x 23 cm. Original weight 18.3 kilograms.
- Glorieta Mountain**, Santa Fé County, New Mexico. Found 1884.
Size, 16 x 24 x 41 cm. Original weight 52.3 kilograms.
- Hex River**, Cape Colony, South Africa. Found 1882.
Size, 20 x 23 x 50 cm. Original weight 64 kilograms.

- Joe Wright Mountain**, Independence County, Ark. Found 1884.
Size, 21 x 21 x 42 cm. Original weight 42.5 kilograms.
- Juncal**, Atacama, Chili, S. A. Found 1866.
Size, 17 x 18 x 32 cm. Original weight 104 kilograms.
- Kenton County**, Kentucky. Found August, 1889.
Size, 20 x 35 x 56 cm. Original weight 163 kilograms.
- Kokstad**, Griqualand, South Africa. Described 1887.
Size, 9 x 32 x 66 cm. Original weight 42.6 kilograms.
- Luis Lopez**, Socorro County, New Mexico. Found 1896.
Size, 8 x 13 x 19 cm. Original weight 6.7 kilograms.
- Merceditas**, Chañaral, Atacama, Chili. Known 1884.
Size, 18 x 20 x 32 cm. Original weight 43.4 kilograms.
- Morito** (San Gregorio), Chihuahua, Mexico. Found 1600.
Size, 102 x 122 x 195 cm. Original weight 11,560 kilograms.
- Mungindi**, Queensland, Australia. Found 1897.
Size, 17 x 24½ x 39 cm. Original weight 28.1 kilograms.
- Nejed**, Wadec Bane Khaled, Central Arabia. Found 1863.
Size, 23 x 28 x 36 cm. Original weight 61.6 kilograms.
- N'Gourema**, Upper Niger, Soudan, Africa. Fell June 15, 1900.
Size, 9 x 28 x 57 cm. Original weight 37½ kilograms.
- Nocoleche**, New South Wales. Known 1895.
Size, 15 x 23 x 23 cm. Original weight 20 kilograms.
- Plymouth**, Marshall County, Indiana. Found 1893.
Size, 7 x 19 x 31 cm. Original weight about 14.5 kilograms.
- Puquios**, Chili, South America. Found 1885.
Size, 8 x 13 x 23 cm. Original weight 6.5 kilograms.
- Roebourne**, West Australia. Found 1892.
Size, 17 x 34 x 57 cm. Original weight 86.8 kilograms.
- Rosario**, Olancha, Honduras, Central America. Found 1897.
Size, 7 x 8 x 12 cm. Original weight 2.9 kilograms.
- Sarepta**, Saratov, Russia. Found 1854.
Size, 10 x 20 x 22 cm. Original weight 14.3 kilograms.
- Scottsville**, Allen County, Kentucky. Found 1867.
Size, 14 x 16 x 18 cm. Original weight 10 kilograms.
- Staunton**, Augusta County, Virginia. Found 1858.
Size, 18 x 26 x 44 cm. Original weight 68.9 kilograms.
- Surprise Springs**, San Bernardino County, Cal. Found 1899.
Size, 6 x 6½ x 10 cm. Original weight 1.5 kilograms.
- ThurLOW**, Ontario, Canada. Found May 12, 1888.
Size, 10 x 15 x 15 cm. Original weight 5.4 kilograms.

Welland, Ontario, Canada. Found 1888.

Size, 7 x 15 x 20 cm. Original weight 8 kilograms.

Werchne-Udinsk, Niro River, Siberia. Found 1854.

Size, 12 x 16 x 28 cm. Original weight 18.5 kilograms.

Wichita County, Brazos River, Texas. Found 1836.

Size, 18 x 31 x 42 cm. Original weight 145 kilograms.

SIDEROLITES.

Breitenbach, Erzgebirge, Bohemia. Found 1861.

Size, 12 x 16 x 24 cm. Original weight, 10.5 kilograms.

Brenham, Kiowa County, Kansas. Found 1885.

Size, 14 x 17 x 20 cm.

Crab Orchard, Rockwood, Tenn. Found 1887.

Size, 21 x 24 x 35 cm. Original weight 38.5 kilograms.

AEROLITES.

Akburpur, Saharanpur, Northwest Provinces, India. Fell April 18, 1838.

Size, 9 x 10 x 12 cm. Original weight 1.8 kilograms.

Bluff, Fayette County, Texas. Found 1878.

Size, 29 x 40 x 46 cm. Original weight 146 kilograms.

Bustee, near Goruckpur, India. Fell December 2, 1852.

Size, 7 x 11 x 11 cm. Original weight 1.3 kilograms.

Butsura, Qutahar Bazaar, Bengal, India. Fell May 12, 1861.

Size, 29 x 35 x 40 cm. Original weight 13.1 kilograms.

Butsura, Piprassi, Bengal, India. Fell May 12, 1861.

Size, 7 x 13 x 25 cm. Original weight 5 kilograms.

Butsura, Chireya, Bengal, India. Fell May 12, 1861.

Size, 10 x 11½ x 21 cm. Original weight 843 grammes.

Butsura, Bulloah, Bengal, India. Fell May 12, 1861.

Size, 3 x 5 x 7 cm. Original weight 158 grammes.

Butsura, Bengal, India. Fell May 12, 1861.

(Five pieces, including the above four, put together, forming one stone.)

Size, 29 x 35 x 40 cm. Weight 22 kilograms.

De Cewsville, Ontario, Canada. Fell January 21, 1887.

Size, 5 x 6 x 7 cm. Original weight 340 grammes.

Durala, N. W. of Kurnal, Punjab, India. Fell February 18, 1815.

Size, 16 x 20 x 25 cm. Original weight 13 kilograms.

Farmington, Washington County, Kansas. Fell June 25, 1890.

Size, 18 x 43 x 49 cm. Original weight 81.6 kilograms.

Goalpara, Assam, India. Found 1868.

Size, 7 x 14 x 15 cm.

Homestead, West Liberty, Iowa County, Iowa. Fell February 12, 1875.

Size, 18 x 24 x 25 cm.

Karakol, Ajagus, Kirghiz Steppes, Russia. Fell May 9, 1840.

Size, 10 x 13 x 15 cm. Original weight 3 kilograms.

Khiragurh, S. E. of Bhurtpur, India. Fell March 28, 1860.

Size, 5 x 6 x 7 cm.

Krähenberg, Zweibrücken, Rhenish Bavaria. Fell May 5, 1869.

Size, 12 x 21 x 28 cm. Original weight 16.5 kilograms.

MacKinney, Collin County, Texas. Fell 1870 (?)

Size, 15 x 16 x 20 cm.

Middlesbrough, Yorkshire, England. Fell March 14, 1881.

Size, 9 x 11 x 15½ cm. Original weight 1.6 kilograms.

Misshof, Baldon, Courland, Russia. Fell April 10, 1890.

Size, 13 x 14 x 17 cm. Original weight 5.8 kilograms.

Monte Milone (Pollenza), Macerata, Italy. Fell May 8, 1846.

Size, 9 x 12 x 14 cm. Original weight 5 kilograms.

Nagy-Divina, near Budetin, Trentschin, Hungary. Fell July 24, 1837.

Size, 15 x 23 x 24 cm. Original weight 10.5 kilograms.

New Concord, Muskingum County, Ohio. Fell May 1, 1860.

Size, 5 x 6 x 8 cm.

Parnallee, Madras, India. Fell February 28, 1857.

Size, 23 x 24 x 41 cm. Original weight 74 kilograms.

Segowlie, Bengal, India. Fell March 6, 1853.

Size, 13 x 15 x 16 cm.

Segowlie, Bengal, India. Fell March 6, 1853.

Size, 9 x 9 x 9½ cm.

Segowlie, Bengal India. Fell March 6, 1853.

Size, 6 x 8 x 8 cm. (The above three are portions of the same stone.)

Segowlie, Bengal, India. Fell March 6, 1853.

Size, 4 x 4 x 7 cm.

Wold Cottage, Thwing, Yorkshire, England. Fell Dec. 13, 1795.

Size, 12 x 17 x 22 cm. Original weight 25.5 kilograms.

Yatoor, Nellore, Madras, India. Fell January 23, 1852.

Size, 14 x 18 x 20 cm. Original weight 13 kilograms.

N. B.—Duplicates of these casts of Meteorites may be obtained from Ward's Natural Science Establishment, Rochester, N. Y., U. S. A.

XI. MEDALS OF METEORITES.

The people of antiquity looked upon the heavenly bodies as the places of abode of gods and beings higher than mankind. Thus it came to pass that they gave divine worship to objects which were seen to fall from the celestial spaces. They built special temples, in which they preserved them with sacred care. They were also displayed for public worship under a priest appointed for the special purpose. These Meteorites received from the early Greeks the name *Betyls* (*Berylos*), probably from the earlier Hebraic *Beth-el*, or home of God. In the early centuries—both B. C. and A. D.—the habit prevailed in Macedonia, Cyprus, Mallos, Perga, Sidon, Tripolis, Tyrus and many other places to make medals to commemorate the fall of meteorites. Such medals were struck by order of Philip II, Alexander III, Augustus, Caligula, Vespasian, Trajan, Marcus Aurelius, Septimius Severus, Heliogabalus, and others. Dr. Aristides Brezina, of Vienna, has given much study to this numismatic meteorology. From him our collection has received a series of sixty casts or replica of these medals. We give below Dr. Brezina's list of these with his prefatory words:

BETYL COINS

BY DR. ARISTIDES BREZINA

As the ancients supposed the stars to be the domiciles of gods, falling stars and falling meteorites signified to them the descending of a god or the sending of his image to the earth. These envoys were received with divine honors, embalmed and draped and worshipped in temples built for them. From about 300 B. C. to 300 A. D. coins were struck in honor of these divinities by emperors and autonomous cities. In general the image of a stone was first given in naturalistic manner, then by and by became more human-like. Many of these betyl coins represent stones expressly reported to have fallen from heaven. They present many common features, the likeness to obelisks or cones, and later on a half-human likeness or half-iconic form. So it came that similar representations of unknown origin were likewise supposed to represent meteorites in the same manner as among meteorites are recorded those seen to fall and others which had been only found and had been supposed to be meteorites because of their likeness to the former and their difference from terrestrial rocks.

Betyls reported to have fallen from heaven are the Omphalos of Delphi, represented on coins of sixty-five towns and countries; the stone of Emisa (El Gabol) from seven towns; Zeus Katabates of Kyrrboro and Anazarbos, Zeus Keraunios (two towns); stone of Aphrodite Paphia (five towns); Artemis Ephesia (sixty-nine towns); stone of Astarte (eight towns); stones of Athena (seventeen towns). Betyl coins accepted by analogy are: The Pyramids of Apollon, the Stones of Zeus Dolichenos of Tarsos and of Zeus Kasios of Seleucia, the Simulacres of Artemis Perga, Samian Hera, Persephone, etc., together 342 towns. Related celestial bodies are the Comets, represented on the coins of Rome and (in modern times) of Silesia.

The present collection of sixty coins with meteorite symbols represent nineteen deities and thirty-seven towns.*

APHRODITE PAPHIA

Cyprus	Julia Domna	Cyprus	Vespasianus, E
"	Caracalla	"	" AR
"	Septimius Severus	Gabala	Macrinus

APHRODITE URANIA

Uranopolis	Alexander III	Uranopolis	Autonomous
	Myrsina	Autonomous	

APOLLO PYRAMIDS

Ambracia	Autonomous	Apollonia	Autonomous
		Megara Autonomous	

*The full collection of Betyl medals of Dr. Brezina number several hundred kinds.

ARTEMIS ANAITIS

Apanea	Autonomous
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ARTEMIS EPHESIA

Aizanis	Commodus	Asia Provincia	Hadrianus
Ankyra	Gov. Faustina, Junior	Philadelphia	Autonomous

ARTEMIS PERGEEA

Asia Provincia	Trojanus	Perga	Autocianus
	Pogla	Antoninus	

ASTARTE

Byblas	Macrinus	Tyrus	Maesa
Sidon	Elagabalus	"	Trebonianus Gallus
"	Asia Faustina		

ASTHERA MAGARTIA

Syra	Demetrius III
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HERA

Hypaepa	Geta	Samos	Caracolla
Zonia Koinon	Marcus Aurelius	"	Marcus Aurelius
Samos	Etrusca	"	Salonina

PERSEPHONE

Asia Provincia	Hadrianus	Sardis	Caracolla
Sardis	Autonomous	"	Julia Domna
"	Alexander poerus		"

EL GABAL

Emisa	Antoninus Pius	Rome	Elagabalus AV
"	Caracolla	"	" AR
Laodicea	Trebonianus Gallus	"	" AE

OMPHALUS

Parthia	Tiridates	Syria	Antiochus III
"	Phrastes		
"	Mithradates (Tetradrachma)		
"	" (Drachma)		

ZEUS DOLICHENOS

Syria	Antiochus VII
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SAMPLE MEDAL.



EMISA.—A conical stone, carried on a quadriga under four sunshades. Medals struck by Antoninus Pius (138-161 A. D.) in Emisa, Syria. Afterwards taken to Rome by Elagabalus (218-222), where he struck three silver denarii.

Herodotus says of this Betyl: "A large stone, which on the lower side is round, and above runs gradually to a point. It has nearly the form of a cone, and is of a black color. People say of it in earnest that it fell from Heaven."

EXPLANATIONS TO PLATES.

PLATE I.

Fig. 1. Toluca , showing curved octahedral structure.	$\frac{1}{2}$ natural size	Fig. 6. Mount Stirling .	$\frac{1}{2}$ natural size
Fig. 2. El Capitan .	$\frac{1}{2}$ natural size	Fig. 7. Staunton .	$\frac{1}{2}$ natural size
Fig. 3. Glorieta Mountain , showing curved octahedral structure.	$\frac{1}{2}$ natural size	Fig. 8. Seneca Falls .	$\frac{1}{2}$ natural size
Fig. 4. Grand Rapids .	$\frac{1}{2}$ natural size	Fig. 9. Beaconsfield .	$\frac{1}{2}$ natural size
Fig. 5. Plymouth .	$\frac{1}{2}$ natural size	Fig. 10. Welland .	$\frac{1}{2}$ natural size
		Fig. 11. Hayden Creek .	$\frac{1}{2}$ natural size
		Fig. 12. Luis Lopez .	$\frac{1}{2}$ natural size

PLATE II.

Fig. 1. Waldron Ridge .	$\frac{1}{2}$ natural size	Fig. 8. Tonganoxie .	$\frac{1}{2}$ natural size
Fig. 2. Bella Roca .	$\frac{1}{2}$ natural size	Fig. 9. Wichita Co.	$\frac{1}{2}$ natural size
Fig. 3. Thurlow .	$\frac{1}{2}$ natural size	Fig. 10. San Angelo .	$\frac{1}{2}$ natural size
Fig. 4. Joe Wright Mountain .	$\frac{1}{2}$ natural size	Fig. 11. Mungindi .	$\frac{1}{2}$ natural size
Fig. 5. Cañon Diablo .	$\frac{1}{2}$ natural size	Fig. 12. Bohumilitz .	$\frac{1}{2}$ natural size
Fig. 6. Saint Francois County .	$\frac{1}{2}$ natural size	Fig. 13. Merceditas .	$\frac{1}{2}$ natural size
Fig. 7. Youndegin .	$\frac{1}{2}$ natural size		

PLATE III.

Fig. 1. Sacramento Mountains .	$\frac{1}{2}$ natural size	Fig. 6. Augustinowka .	$\frac{1}{2}$ natural size
Fig. 2. Oroville .	$\frac{1}{2}$ natural size	Fig. 7. Glorieta .	$\frac{1}{2}$ natural size
Fig. 3. Cranbourne .	$\frac{1}{2}$ natural size	Fig. 8. Russel Gulch .	$\frac{1}{2}$ natural size
Fig. 4. Roebourne .	$\frac{1}{2}$ natural size	Fig. 9. Thunda .	$\frac{1}{2}$ natural size
Fig. 5. Nocoleche .	$\frac{1}{2}$ natural size		

PLATE IV.

Fig. 1. Morristown	$\frac{1}{2}$ natural size	Fig. 8. Knyahinya , nearly complete stone.	$\frac{1}{2}$ natural size
Fig. 2. Brenham ("Haviland" Meteorite).	$\frac{1}{2}$ natural size	Fig. 9. New Concord , polished face.	$\frac{1}{2}$ natural size
Fig. 3. Veramin .	$\frac{1}{2}$ natural size	Fig. 10. New Concord , showing pittings.	$\frac{1}{2}$ natural size
Fig. 4. Mincy .	$\frac{1}{2}$ natural size	Fig. 11. Hessle , complete stone.	$\frac{1}{2}$ natural size
Fig. 5. Medwedewa .	$\frac{1}{2}$ natural size		
Fig. 6. Homestead .	$\frac{1}{2}$ natural size		
Fig. 7. Knyahinya , polished face.	$\frac{1}{2}$ natural size		

PLATE V.

Carlton, Hamilton Co. $\frac{1}{2}$ natural size

PLATE VI.

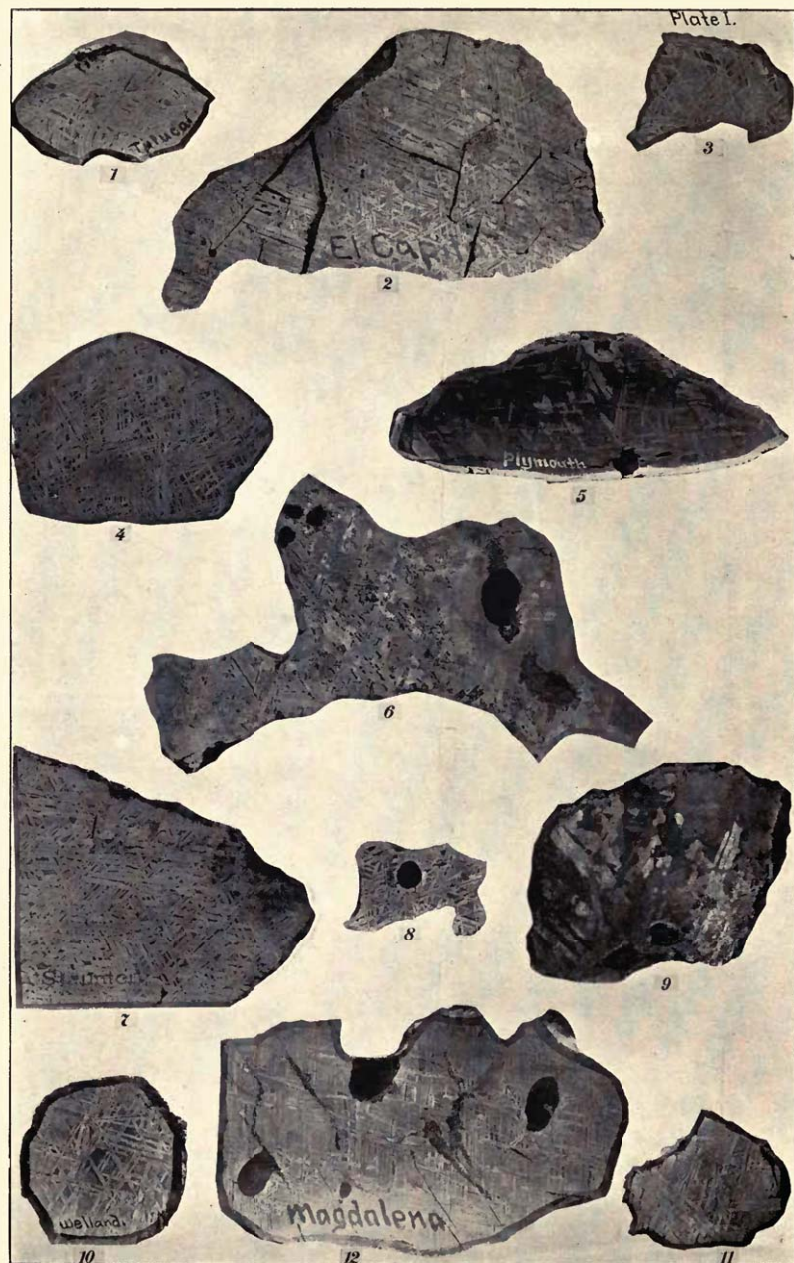
Brenham, Kiowa Co. $\frac{1}{2}$ natural size

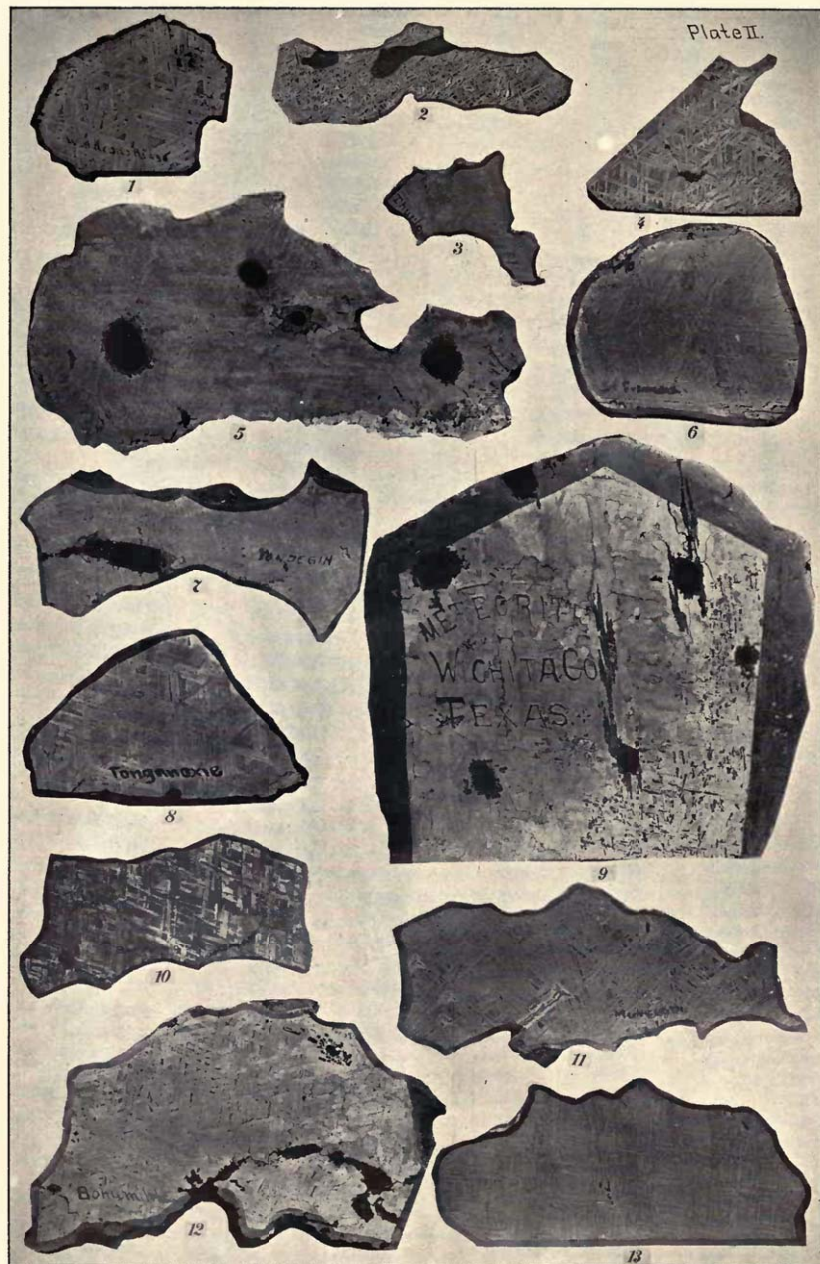
PLATE VII.

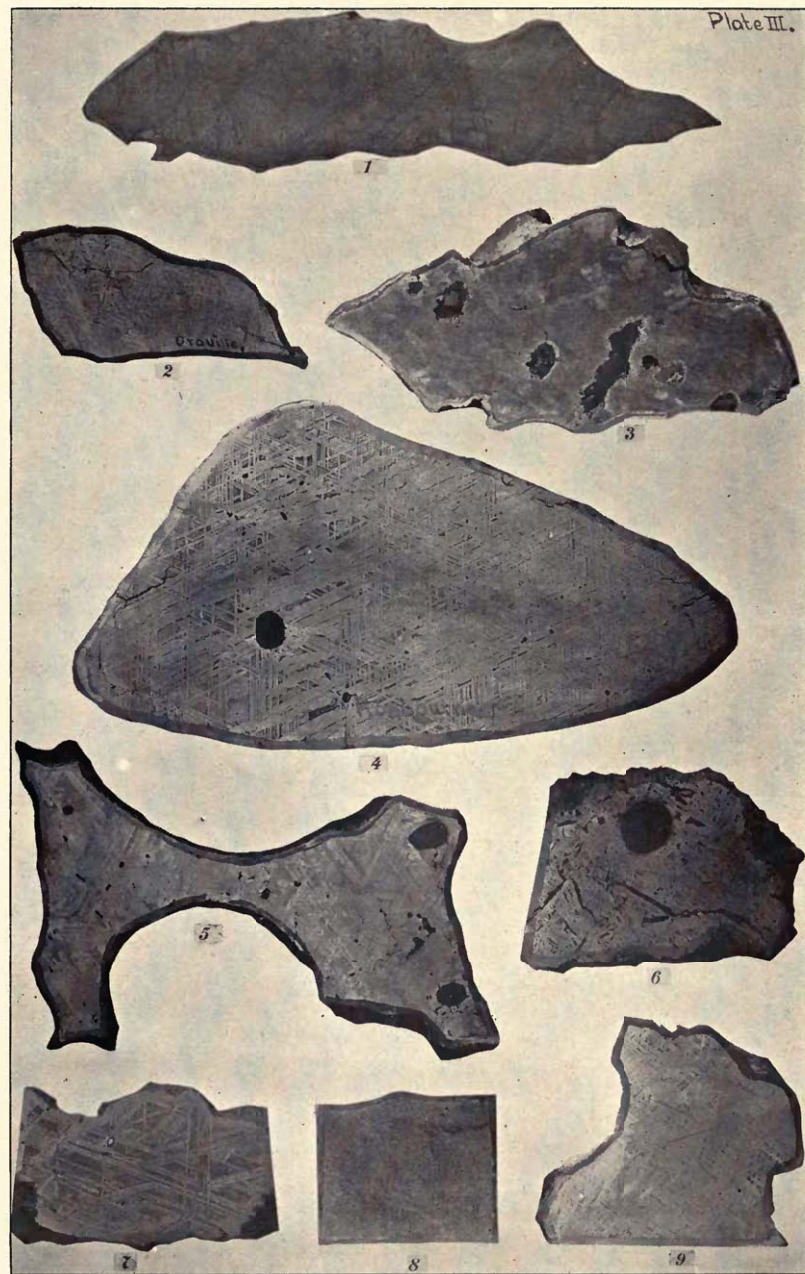
Arispe .	$\frac{1}{2}$ natural size	Bald Eagle (slice).	$\frac{1}{2}$ natural size
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PLATE VIII.

Guernavaca .	$\frac{1}{2}$ natural size	Franceville (slice).	$\frac{1}{2}$ natural size
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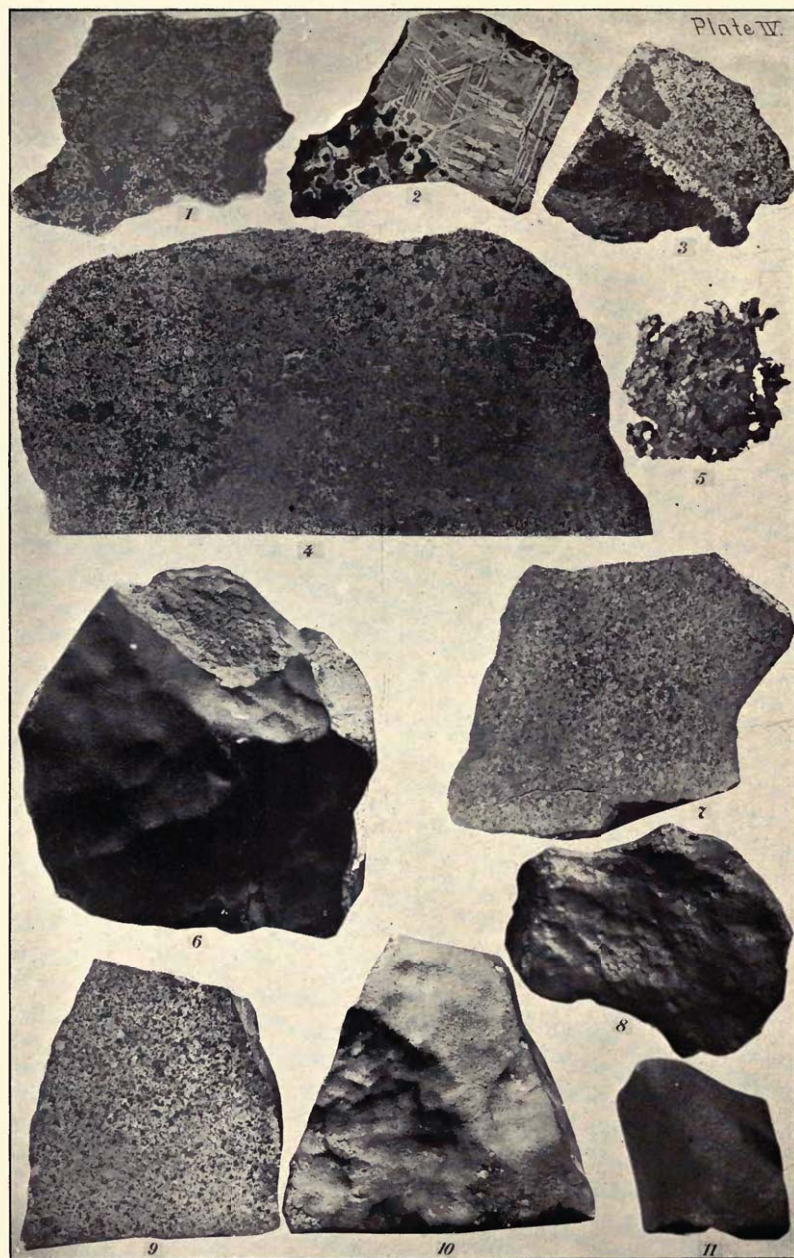


Plate V.



Plate VI.



Plate VII.

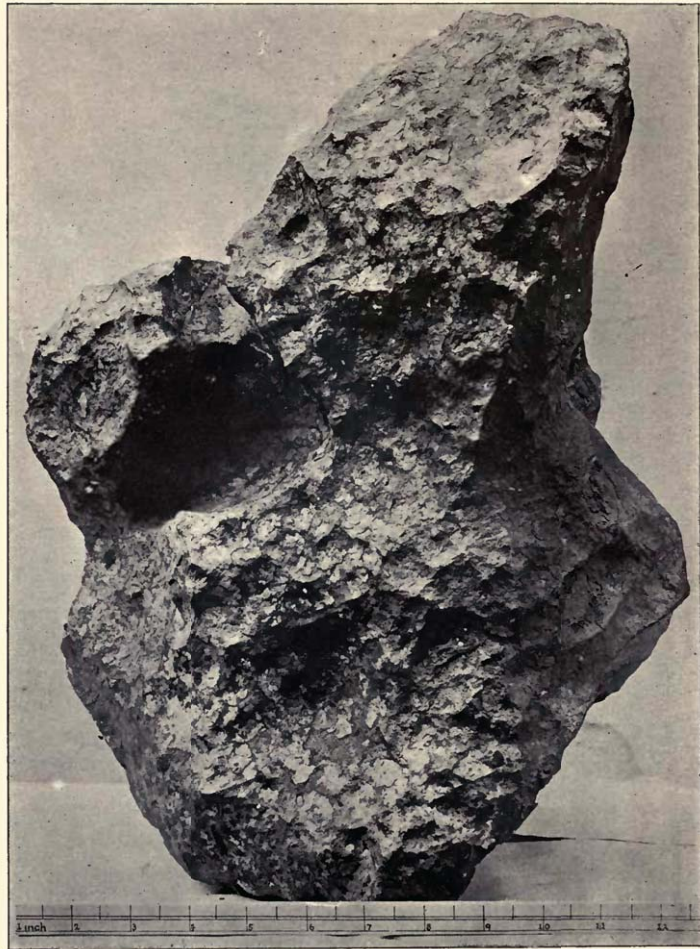


Plate VIII.





SINGLE SMALL CASE. (Nejed, Youndegin, Arispe, &c.)

