Rec. Dec 14
Ans Febr 25th

SMITHSONIAN INSTITUTION,

Washington, November 20, 1852.

The Smithsonian Institution is engaged in a series of investigations relative to the Meteorology of North America, and is desirous of collecting all information bearing on this subject.

It is believed that there exist many records of observations extending back, in some cases, through a long period of years, the comparison and discussion of which would elicit much valuable information relative to the climate of this country, which would otherwise be liable to be lost. The undersigned would therefore earnestly request that copies of such journals, or the original records, be lent or presented to the Institution. In cases of records which cannot be sent to the Institution, monthly or other mean results deduced from them are requested, with explanations of the manner in which the observations were made, the character of the instruments, &c.

Proper acknowledgment of all information derived from the records will, in every instance, be given, and the registers themselves will be carefully preserved, and returned, if desired, to those from whom they were obtained.

When it is recollected that isolated observations are greatly enhanced in value, and made to yield new results by comparison with other observations, it is hoped that the request of the Institution will meet with favorable regard.

Joseph Henry,
Secretary.

Dr Geo: Engelmann

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Rec March 18th

Smithsonian Institution Mch 9. 1853

Dr Geo. Engelmann

My Dear Sir

Your note of Feb. 25th is received. You kind offer to send the volumes of Meteorological Observations made by you for temporary use places us under obligations, but it may be possible to attain our purpose without the transmission of the original observations if, as you intimate, abstracts of them actually have been made in a compressed form by yourself. An abstract giving the means and extremes of each observed condition monthly would answer all the purposes contemplated by the Circular. The sum of precipitation being added. The discussion of the constant quantities of our Climate is the only purpose to which observations antecedent to 1850 can be applied.

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Since that time observations comparable in time & manner of observation with those of this Institution would greatly assist the discussion of Storms & changes.

Copies of the form now in use accompany for your examination, & use if you desire.

We would be glad to receive a particular notice of the amount of precipitation in Rain and Snow at St Louis, and at other points in the vicinity if you have notes of other observations.

Any packages may be sent by Express at the charge of this Institution if impossible to send abstracts, or if the abstracts are too bulky for the mail.

If original observations are sent or if the abstracts are desired to be returned it will be done at such time as you may desire.

Very respectfully
Your obedt Servt
Joseph Henry

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Such notices also, as you may have made of Auroras, Thunder Storms great general Storms or special phenomena would be thought par-
-ticularly valuable, & would greatly oblige us if sent —

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Rec'd Sept — 17th
Ans — 16th

Smithsonian Institution
Washington. September 8th 1859

Dear Sir

We have received a letter from our agent in Leipsic informing us that the bookseller in that city of whom you ordered botanical books, has presented his bill to your brother in Frankfurt but has heard nothing in reply. What shall I say to him in regard to the matter?

When I last had the pleasure of seeing you, we had some conversation on the subject of publishing in full your meteorological observations. Are you still inclined to give them to the public through this Institution, and if so when will they be ready for the press? We will furnish you as many copies for distribution among your friends as you may require. We are now printing a series of observations made by Prof Caswell of Brown University.

Very Respectfully
Your Obedt. Servt.
Joseph Henry
Secretary S. I.

Dr Engelman
St Louis.
Mo.

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R.C Sept 28th 1859
Ans Aug 28 1860

Charles Cathcart

Smithsonian Institution
Washington D.C. Sept 26th 1859.

Dear Sir,

Your letter of the 15th Inst. has just been received, and I write to say that we shall give our agent Dr Flügel the proper information in regard to your connection with the books for Mr Shaw.

The Dellman apparatus has just arrived; and however expert the inventor may be in the use of instruments, I am very sorry to say he has but little knowledge of the important art of packing. The essential part of the apparatus viz, the electrometers, came to hand broken. We shall endeavor to supply the missing parts for Dr Wislizenus and will forward the whole as soon as we can attend to the business.

As to your meteorological records I think it important that the whole should be published, but I do not think it necessary that the manuscripts should be copied, since the original may be returned to you from the printer. In place of copy

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ing I would advise that the whole be placed in the hands of Mr Hendles for preparation for the press, and for making such deductions from the records as his knowledge of the subject & talents will enable him to do. The Institution will make a small appropriation to pay the expense and it is desirable that the work should be done as soon as possible.

I will confer with Prof Baird when he returns, as to what we can do in the way of procuring copies of publications for you.

Very respectfully

Your obed't. serv't.

Joseph Henry

Secretary.

Dr. Geo. Englemann

St. Louis.

Mo.

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Rec'd Nov 26th 1859
Ans Aug 28th 1860

Smithsonian Institution
Nov 23rd 1859

My Dear Dr

I presume you are begining to be impatient to receive your delicate apparatus and I write to inform you that I have devoted all my leisure time for many a week past to its study and to the instruction of our workmen in repairing the broken parts

We shall have no difficulty with any part but the glass filaments which came in small fragments. I have sent to New York to have a quantity sent by the glass blowers but have not yet learned whether they can be made by ordinary workmen of this class. If they cannot be procured in this way we shall attempt to acquire the art of spinning the glass and will forward your instrument as soon as

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It is in a proper condition to leave our hands.

We shall have some parts re-fitted and put in better working order than they were at first.

I find the instrument prepared for the institution furnished with a small galvanic battery for determining the absolute intensity of the electrical excitation as compared with the unit of a single element of a zinc & copper battery charged with rain water. The arrangement of the apparatus to facilitate its use and to give precision to the results are very ingenious.

I have heard nothing from you in reply to my proposition that you should employ Mr Fendler to prepare for the Mags your series of meteorological observations. Let me know what you think of this

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proposition and if you approve it how long before the material will be ready for the printer.

I remain very respectfully

Your obt. servt.

Joseph Henry

Dr. Engelmann

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Rec'd Oct 29th
Ans Nov 23

Smithsonian Institution
Washington D.C. Oct 26th 1860

Dear Sir,

Your letter of Aug 28th would have been answered before this, had I not been absent from the city.

I am sorry to learn that your meteorological observations are not in as good a condition as you could wish, but notwithstanding your desponding account, I still think they are of some value. They extend, if I rightly recollect, over a period of more than 25 years, and although the instruments in some cases have been defective, yet they would serve to furnish the comparative temperature at different periods; the recurrence of remarkable periods of heat and cold; of storms of wind and rain, and of changes in barometrical pressure. I suggested that you place them in the hands of Mr Fendler, who appears to be much

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interested in matters of this kind, and that the Institution would make a small appropriation to defray the expense of the reductions. If there should be any cause why you should not wish to put the material in the hands of Mr. Flendler, or he should not desire the work, if you will send the records to the Institution, we will have them prepared for publication in Washington, if on careful examination we find them worthy of the expense.

It would be a matter of regret, that the labor you have bestowed on these observations should not be made to bear proper fruit in the way of advancing science.

I am pleased to learn that Dellmann's apparatus has been put in operation.

Very respectfully your obedient servant

Joseph Henry

Secretary.

Dr Geo Engleman
St Louis Mo.

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Rec'd May 10 14
Ans May 29 9

Smithsonian Institution,
Washington, May 3, 1862.

Dear Sir:

We are pleased to learn from your letter of the 29th ult. that farther explorations are to be made in the Colorado district, and that you have furnished the means of hypsometrical measurements, and expect a return in botanical specimens.

We will cheerfully send you a supply of meteorological directions to be distributed at your discretion. We shall also send you a set of our late entomological publications, and shall be happy, at all times to have an opportunity, through you, of assisting to advance a knowledge of the physical geography and natural history of this continent.

We fully approve the recommendation of Dr. Gray as to the disposition of the plants in your possession, viz: that a full set be sent to the Institution, another retained by yourself, and the remaining duplicates to be distributed through you in the name of the Smithsonian Institution,

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to Cambridge, Kew, Paris, Berlin, Vienna, St. Petersburg &c.

You will oblige us by requesting that the receipts for these be sent to the Smithsonian Institution, since the Government has presented all its collections to this establishment, and written acknowledgments are our vouchers for the faithful discharge of the duty which has been entrusted to the Board of Regents.

I have received the part of the Transactions of the St. Louis Academy, containing the interesting article of Dr. Wislizenus, on electricity and your paper on temperature and rain, but I have not as yet had time to give them a critical examination.

We shall publish in our next report, at least, an abstract of your paper. I am pleased to inform you that your relative Mr. Hilgard has returned to science, & to this city. He had been too long hard by the tree of knowledge to be able to relinquish permanently the taste of its fruit.

On consultation with Professor Baird

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he has suggested that it will be well for you to send the complete set of plants for the Institution to Dr. Torrey as soon as possible in order that he may intercalate it with the general collection he is now arranging for us.

I remain,

Very Respectfully
Your obedt. servt.

Joseph Henry

Secretary S. I.

Dr. Geo. Engelmann,
St. Louis. Mo.

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Rec'd June 21st
Ans July 15
" July 14

Smithsonian Institution,
Washington, June 18, 1862

Dear Sir;

Yours of May 29th in reference to a box from Dr. Flügel (No. 155) lost last summer, has been duly received, and in reply I regret to state that thus far we have failed entirely to learn anything of it, and that there is little probability of its recovery.

I am,
Very Respectfully,
Your obed.t serv.t.
Joseph Henry
Secretary S. I.

Dr. Geo. Engelmann,
St. Louis, Mo.

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Rec'd Nov 9th
Ans Febr 24

Smithsonian Institution,
Washington Novr 5. 1862.

Dr Sir:

I write to thank you for your interesting letter of Aug 14th relative to the topography of the region of Pikes Peak, and to say that we would be very much gratified to publish your reductions of the observations of Dr Parry, either in the Smith-sonian report or in the Contributions to Know-ledge.

We will endeavor to procure and send you a copy of Humphrey's work on the Mis-sissipi River.

I remain,
Very Resp.ly
Your obed.t servt.
Joseph Henry
Secretary S. I.

Dr Geo. Engelmann,
St Louis, Mo.

P.S. The copy of Humphrey's book will be sent by the mail or express.
J. H.

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Rec'd Jan 22

Smithsonian Institution
Washington D.C.
January 18. 1864.

Dear Sir:

Your letter making enquiry respecting the possibility of using the facilities of the Smithsonian Institution in receiving parcels from California has been duly received. In reply I hasten to say that we do not feel at liberty to authorize the transmission of any considerable bulk in our name as we would thereby violate an implied agreement with the company forming the route. Any parcel of books, however, or packages of plants not exceeding one or two cubic feet at a time might be sent without impropriety.

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At present we are obliged to pay freight from Aspinwall to New York at the rate of 50 cents per cubic foot. Mr Vanderbilt the proprietor of the line, not having followed the example of the Pacific Mail S. S. Co. and the Panama R. R. nor of the Steamer Company which had previously run the vessels between New York and Aspinwall.

Our agent in San Francisco is Mr A. B. Forbes in charge of the San Francisco Office of the Pacific Mail S. S. Co. Any thing intended for you should be boxed and addressed to this Institution with "Dr G. E." endorsed on one corner.

You can send your meteorological registers free of postage by addressing them to Hon. J. H. Patterson, House of

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Reps. with a note to him requesting him to give them to us.

Very Respectfully
Your Obd.t Servt.

Joseph Henry
Secretary Smn Inst.

Dr. Geo. Englemann
St. Louis
Mo.

P.S. I regret that you could not attend the meeting of the academy. Preparation was made for your reception as the guest of Mr. Bates the attorney general of the U.S. who claimed you as one of the Representatives of science from Missouri.

J. H.

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Rec'd June 6
Ans June 7

Smithsonian Institution
Washington. June 2. 1865

Dear Sir:

We have duly received the parcels sent by you for transmission to Europe, and they will be forwarded in a few weeks.

We paid the Express Co. the sum of five dollars & twenty five cents ($5.25) charges on the parcels, which please remit to us, as our rules require that such packages be delivered in Washington free of expense.

Yours respectfully
Joseph Henry

Dr Geo. Engelmann
St Louis.
Mo.

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Ans - April 1.

SMITHSONIAN INSTITUTION,

WASHINGTON, March 28 1871

Dear Sir,

We have your letter of March 26th, and beg leave to thank you for the offer of a copy of the Observations in the line of meteorology which you have made.

Although we have a regular observer at St. Louis, a duplicate series of observations is important for comparison.

The package you announce will, when it arrives, be duly transmitted with our

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Invoice, now being made up, to its destination, in Switzerland.

I am pleased to be able to inform you, in reply to your kind inquiry, that, though somewhat interrupted by the war, my trip was of much benefit to me, both physically and mentally, and that I have returned with renewed vigor of mind and body.

I am

Your very truly

Joseph Henry

Dr. G. Engelmann,
St. Louis,

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Rec: April 25

SMITHSONIAN INSTITUTION,

WASHINGTON, April 19 1871.

Dear Sir;

In reply to your letter of April 10th we beg leave to inform you that the name of our observer at St. Louis, concerning whom you inquire, is J. H. Stumebeck, (S.J.)

We are happy to know that you, also,

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propose making observations and will send a copy of the same to this Institution. These can be entered on our blank-forms, a number of which are mailed to your address.

We shall not forget to send you a copy of the Report for 1869 as soon as it comes to us from the Printing Office.

Yours truly

D. G. Engelmann,
St Louis, Mo.

Joseph Henry
Secty S. Inst.

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Rec'd Jan 10
Ans Jan 21

SMITHSONIAN INSTITUTION,

WASHINGTON, Jany. 7th 1874

Dear Sir;

We have your letter of the 4th Inst, and have to say, in reply, that we are now having reduced and discussed for publication all the observations on temperature and winds that have been collected by the Institution during the last twenty years. When published we shall take pleasure in presenting you with copies.

By mail of to-day we send you the latest published Report, that for 1871.* The volume for 1872

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is now in the press.

Yours very truly,

Joseph Henry

Secy S. I.

Dr. Geo. Engelmann,
3003. Locust St.,
St. Louis,
Mo.

*P.S. In the volume we send you will be found a list of all the meteorological observatories of the Inst^on

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Rec July 2d
Ans July 5th

Smithsonian Institution,
Washington, D.C.

June 30 1874

Sir:

We have just received from our Computer a copy of the reductions of all the records of temperature from the earliest times in this country which we have been able to collect and we have to regret that your valuable series, completed to this date, has not been fully incorporated in the work. This however can be done during the passage of the manuscripts through the press and if

Smithsonian

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you will send us the monthly means at your earliest convenience you will do a favor to the Institution while at the same time you advance the cause of meteorology.

Yours,

Very truly yours,

Joseph Henry

Secy. S. I.

Dr. Geo. Engelmann
St. Louis,
Mo.
3003. Locust St.

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SMITHSONIAN INSTITUTION,

WASHINGTON, D. C., May 10th 1878

Sir:

We are much obliged for the information contained in your letter of May 2d and presume that Professor Evart made a mistake in regard to the location of an artesian well near Potsdam in Missouri.

We have sent you by mail the Reports of the Institution for 1875 & 6, Nattons's Botanical Index and the Report of the Secretary of the Smithsonian for 1877. The volume of the Report for 1877 is not yet printed.

Truly yours &c

Joseph Henry
Sec. S. I.

Dr. Geo Engelman,
St Louis, Mo.

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