1

Zoology & Entomology

Kny Scharrer Co. Entomological Supplies, 3rd edition.

2 N.S/325 Forceps nets @ $2.50		5.00
2 NS/331 " " @ 2.50		5.00
Material for net-bags		
3 yds. NS/271 @ 1.40		4.20
3 " NS/277 @ 1.00		3.00
3 " NS/289 @ 1.00		3.00
6 " NS/295 @ .60		3.60
24 " NS/30 @ .50		12.00
Dip nets		
3 NS/307 C @ .75		2.25
3 NS/313 @ .75		2.25
Collecting nets		
6 NS/211 Indestructable silk bag @ 2.00		12.00
6 NS/211 close-meshed bobbinet bag @ 1.25		7.50
Dredge		
6 NS/157 @ 2.00		12.00
Spades (trowels)		
2 NS/457 @ 2.00		4.00
8 NS/463 @ .50		4.00
Stretching boards		~~3.00~~
NS/2783 (various sizes)		
~~NS 2784~~		
2 #1 @ 40¢	.80	
2 #3 @ 55¢	1.10	
2 #5 @ 75¢	1.50	
2 #7 @ 85¢	1.70	5.10
		64.90

2)

Geology & Entomology

2 NS/2789 #2 @ 60¢	1.20
2 NS/2819 (Spreading tape) 1¼ in per roll	.40
Potmend 6 cans @ 1.00	6.00
Collecting pails	4.00
2 NS/97 ~~Br~~ a @ 2.00	
Collecting belt	2.00
1 NS/101	
Collecting bag	4.50
2 NS/115 @ 2.25	
Specimen dippers	2.70
NS/535 3 @ 90¢	
Insect pins (Bausch & Lomb)	6.00
15924 - 500 each size 1 to 6	
Pinning forceps (B & L)	2.50
15928	
Sheet cork (Spencer Lens Co. Cat. 1910)	1.75
19550 - 10 sheets	
~~19150~~	
3 Tripods for alc. lamps (Bausch & Lomb Cat. 7375)	.60
B & L. # ~~17070~~ 17070	
Wire gauze (B & L.)	5.00
# 17342, 17344 & 17346	3.00
Asbestos board (B & L) 12188	
Alcohol lamps (B & L)	1.00
15244 - 2 @ 50¢	1.20
15246 - 2 @ 60¢	.40
15240 - 2 @ 20¢	
Homoeopathic vials (Bausch & Lomb # 17226.	
#1 - 200 @ 90¢	1.80
#3 400 @ 1.30	5.20
#6 400 @ 2.50	10.00
#8 400 @ 3.10	12.40
	71.65

3)

Zoology & Entomology

Lamp wicking (15266) B & L. 25 bundles @ 5¢	1.00
Support apparatus B & L. # 16744 - - - - - -	6.00
2 Drawing boards, Bristol board of best quality for drawing, thumb tacks (estimated)	5.00
Abbe Camera lucida - Spencer Lens Co New #500 - - - -	20.00
Stage Micrometer # 400 " - - - - - -	3.50
Eye piece " # 420 - - - - - -	5.00
Centrifuge (Bausch & Lomb) # 13204 - - - - - -	10.00
Hones, whet-rocks, etc. for sharpen knives, razors, etc - - - (estimated) - - -	2.00
Automatic water still (16640) B & L - - -	13.50
40 Watch glasses (B & L.) 17238 - - - - - -	2.00
20 Syracuse watch glasses - - - - - -	1.30
Rubber bands, clips, etc. (estimated)	2.00
Microscopical labels (B & L)	1.20
15206 - - - 4 books - - - - - -	5.00
Camels hair brushes - - - - - - - -	1.00
Adhesive tape - - - - - - - -	
Magnifiers - Hastings triple aplanatic	
2 # 174 - - - - - - - -	14.00
4 # 172 - - - - - - - -	28.00
2 # 170 - - - - - - - -	14.00
Microtome & accessories (estimated)	75.00
Paraffine bath (Spencer lens Co) 4460	22.00
Paraffine (S.L.Co.) 52°-57°C 6 cakes @ .25	1.50
" " 37°-43°C 4 " " .25	1.00
Canada balsam (S.L.Co.) in 20cc collapsible tubes. 50 tubes @ 20¢ -	10.00
	~~244.00~~
	188.00

4)

Zoölogy & Entomology

Glycerine jelly (S. L. Co.) - - - - - - - - - - - -	2.00
Mayers albumen fixative - - - - - - - - - - - -	1.20
Marine glue - - - - - - - - - - - - - - - -	1.20
Containers for microscopical slides	
NS/4241 (Kny-Scheerer Co) holding 100 slides 10@1.00	10.00
Petri dishes (S. L. Co.) #6275. 40 @ .25 (100 mm in diameter) - - - -	10.00
Graduated cylinders (K. S. Co.)	.50
2 N/938 capacity 10 cc @ .25	1.50
2 N/938 " 250 " @ .75	3.00
2 N/938 " 1000 " @ 1.50	2.00
Corrosive sublimate - - - - - - - - - - - -	
Coplin staining jars (K. S. Co.)	6.00
N/1636 - - - - - 12 @ 50¢ - - - - - - - -	
Microscopical object slides (Spencer Lens Co.)	4.00
4 gross #1000 - - - - - - - - - - - -	1.10
1 " #1005 - - - - no 0 - - - -	2.00
1 lb Cover glasses (Squares) 1050, 25 mm	2.10
3 oz. " " " 1065 25 " (#3)	2.40
" " " " Circles 1085 " " (#3)	5.00
4 " " " (rectangular) 1120 - - - - - -	
Schmitt insect boxes (Kny Scheerer Co.)	
30 NS/3109 - - - - 9 X 13 in. @ 8/.00	30.00
Chloroform - - - - - - - - - - - -	10.00
Dissecting sets - - - (estimated) - - - - - -	20.00
Reagents, stains, etc. ")	25.00
Cyanide bottles (Kny Scheerer Co.)	1.30
NS/607 4 4 in long - - - - - - - - - - - -	
" " 2 6 " " - - - - - - - - - - - -	1.00
	141.30

5) ~~Ex~~

Zoology & Entomology

Potassium cyanide - - - - - - - -	2.00
Extra corks for vials (estimated) - - - -	5.00
Pipettes - B & L # 15938 - 20 - - - - -	1.75
" " # 15934 - 30 - - - - -	.90
Tape measure - Linen (Kny-Scherer)	
O/2437 - - - - 2 @ 50¢ - - - - - -	1.00
Microscopes	
2 Leitz or Zeiss binocular microscopes	
fully equipped - - - - estimated - - - -	180.00
Pocket knives (K.S. Co.)	
2 NS/493 - - - - - - @ .60 - - - -	1.20
1 NS/511 1 blade - nat. stag handle - - - -	1.00
Plaster Paris - - - 10 lbs. @ 10¢ - - - - -	1.00
Carbon bi sulphide 5 lbs @ 30¢ - - - -	1.50
Equipment for preparing skins of mammals, birds, etc. - - - - - - - - - -	
Equipment for deep dredging - - - - - - -	
Preservatives - - - - - - - - - -	
Containers for preserved material - - - - -	

(3) copies

ZOOLOGY AND ENTOMOLOGY.

Kny Scheerer Co. Entomological Supplies, 3rd edition.

2 NS/325 Forceps nets @ $2.50..... 5.00

2 NS/331 " " @ 2.50..... 5.00

Material for net bags.

3 yds. NS/271 @ 1.40..... 4.20

3 " NS/277 @ 1.00..... 3.00

3 " NS/289 @ 1.00..... 3.00

6 " NS/295 @ .60..... 3.60

24 " NS/ 30 @ .50.....12.00

Dip nets.

3 NS/307C @ .75..... 2.25

3 NS/313 @ .75..... 2.25

Collecting nets.

6 NS/211 Indestructable silk bags @ 2.00 .....12.00

6 NS/211 Close-meshed bobbinet bags @1.25 ..... 7.50

Dredge

6 NS/157 @ 2.00 .....12.00

Spades (trowels)

2 NS/457 @ 2.00 ..... 4.00

8 NS/463 @ .50 ..... 4.00

Stretching boards

NS/2783 (various sizes) .....

2 #1 @ 40¢ .... .80
2 #3 @ 55¢ 1.10
2 #5 @ 75¢ 1.50
2 #7 @ 85¢ 1.70
..... 5.10

$64.90

2 NS/2789 #2 @ 60¢ 1.20

NS/2819 (Spreading tape) 1 1/2 in. per roll. .40

Potmend 6 cans @ 1.00 ..... 6.00

Collecting pails

2 NS/97 @ 2.00 ..... 4.00

Collecting belt

1 NS/101 ..... 2.00

Collecting bag

2 NS/115 @ 2.25 ..... 4.50

Specimen dippers

3 NS/535 @ 90¢ 2.70

Insect pins (Bausch & Lomb)

15924 - 500 each, size 1 to 6 ..... 6.00

Pinning forceps (B & L)

15928 ..... 2.50

Sheet cork (Spencer Lens Co. Catalog 1910)

1950 ..... 10 sheets 1.75

3 Tripods for alc. lamps (Bausch & Lomb Cat. 7375)

#17070 ..... .60

Wire gauze (B & L)

#17342, 17344 and 17346 ..... 5.00

Asbestos board (B & L) 12188 ..... 3.00

Alcohol lamps (B & L)

15244 2 @ 50¢ 1.00
15246 2 @ 60¢ 1.20
15240 2 @ 20¢ ..... .40

Homeopathic vials (B & L #17226)

#1 200 @ .90 ..... 1.80
#3 400 @ 1.30 ..... 5.20
#6 400 @ 2.50 ..... 10.00
#8 400 @ 3.10 ..... 12.40

$71.65

Lamp wicking (15,266) B. & L. 20 bundles @ 5¢ 1.00

Support apparatus B. & L. 16,744 ..... 6.00

2 Drawing boards, Bristol board of best quality for drawing, thumb tacks (estimated)..... 5.00

Abbe Camera Lucida, Spencer Lens Co., New #500 ... 20.00

Stage Micrometer #400 ..... 3.50

Eye piece Micrometer #420 ..... 5.00

Centrifuge (B. & L.) #13204 ..... 10.00

Hones, whetrocks, etc. for sharpening knives, razors, etc. (estimated)..... 2.00

Automatic water still (16,640) B. & L. 13.50

40 Watch glasses (B. & L.) 17238 ..... 2.00

20 Syracuse watch glasses 1.30

Rubber bands, clips, etc., (estimated)

Microscopical labels (B. & L.) 15206, 4 books 1.20

Camels hair brushes 5.00

Adhesive tape 1.00

Microtome and accessories (estimated)..... 75.00

Paraffine bath (Spencer Lens Co.) 4460 ..... 22.00

Paraffine (S. L. Co.) 52°-57° C. 6 cakes @ 25¢ ... 1.50

" " 37°-43° C. 4 cakes @ 25¢ ... 1.00

Canada balsam (S. L. Co.) in 20 cc. collapsible tubes. 50 tubes @ 20¢ 10.00

Glycerine jelly (S. L. Co.) 2.00

Mayers albumen fixative 1.20

Marine glue 1.20

Containers for microscopical slides NS/4241 (Kny-Scheerer Co.) holding 100 slides 10 @ $1.00 ..... 10.00

Petri dishes (S. L. Co.) #6275, 100 mm. in diameter
40 @ 25¢ 10.00

Graduated cylinders (K. S. Co.)

2 N/938 capacity 10 cc. @ 25¢ ..... .50
2 N/938 " 250 cc. @ 75¢ 1.50
2 N/938 " 1000 cc. @ $1.50 ..... 3.00

X 10 Corrosive sublimate 2.00

Coplin staining jars (K. S. Co.)

12 N/1636 @ 50¢ 6.00

Microscopical object slides (Spencer Lens Co.)

Hollow ground

4 Gross #1000 ..... 4.00
1 " #1005 ..... 1.10

1 oz. Cover glasses (Squares) No. 0 1050, 25 mm. . 2.00

3 oz. " " " No. 0 1065, 25 mm.(#3) 2.10

3 oz. " " (Circles) No. 0 1085, 25 mm.(#3) 2.40

4 oz. " " (Rectangular) No. 0 1120 .... 5.00

Schmitt insect boxes (Kny ScheererCCo.)

30 N.S./3109 .... 9 x 13 inch @ $1.00 .. 30.00

Chloroform 10.00

Dissecting sets (estimated) 20.00

Reagents, stains, etc. (estimated) 25.00

Cyanide bottles (K. S. Co.)

4 NS/607 4 in. long 1.30
2 NS/607 6 in. long 1.00

Potassium cyanide 2.00

Extra corks for vials (estimated) 5.00

Pipettes - B. & L. #15938 - 20 ..... 1.75

" " #15934 - 30 ..... .90

Tape measure - Linen (K. S. Co.) 0/2437, 2 @ 50¢ .. 1.00

Microscopes - 2 Leitz or Zeiss Binocular Microscopes fully equipped (estimated)	180.00
Pocket knives (K. S. Co.)	
2 NS/493 ..... @ 60¢	1.20
1 NS/511, 1 blade - Nat. stag handle	1.00
Plaster Paris - 10 lbs. @ 10¢	1.00
Carbon bi sulphide - 5 lbs. @ 30¢	1.50
Equipment for prepairing skins of mammals, birds, etc.	
Equipment for deep dredging	
Preservatives	
Containers for preserved material	
Total	

Glycerine

Ek #

1 Umiak
2 ✓
3 ✓
4 Destroyed by mount
5 ✓
6 ✓
7 ✓
8 ✓
9 ✓
10 ✓
11 ✓
12 ✓
13 ✓
14 ✓
15 ✓
16 ✓
17 ✓
18 ✓
19 ✓

20 Kayak
21 Muskox skin # 272.

N. E. E.

51 ✓
52 ✓
53 ✓
54 ✓
55 Umiak
56 attic
57 ✓ ?
58 ✓
59 ✓
60 ✓
61 attic
62 attic
63 ✓
64 ✓?
65 attic

M. C. J.

1
2
3
4
5
6 Kayak
7 Dredged Material

65
21
7
43

The International Grenfell Association Inc. SCHOONER GEORGE B. CLUETT

To..... Sheet No..... Date..... 191

Tobacco	25 lbs @ 31 - - - - -	
Molasses	5 gal @ 40¢	

Candles	6 doz @ 17¢	1.12
Vinegar	1 gal @ 25¢	.25
Pork	60 lbs (part of barrel)	
Beans	½ bu - - - -	1.65
Peas	¼ bu. @ 3.48 - -	.87
Fine salt	2 pkts @ 7½	15

To the Members of the North Star Bay Party,
Crockerland Expedition.

Gentlemen:

Appended you will please find a complete list of provisions in store at North Star Bay ~~on~~ in cache en route from the "George B. Cluett" to North Star Bay, except for such supplies as have been used there in January, and for the supply of sugar; the stores for use during the summer season (Feb 1st to Aug 1st) of 1916, with the suggested allowance for each month; and the suggested reserve for a fourth year's stay, a reserve by no means adequate, but valuable and desirable both for variety and times of unusual stress.

This division into stores available for use until August 1st, 1916 and the reserve for the following year is not a hard and fast one. It is hoped that the supply for the season of 1916 is adequate with the addition of fresh meat that under average or normal conditions should be readily obtained; but should it fall short the reserve may be drawn upon to provide sufficient sustenance.

Not included in this list, — the supplies that may come from Upernivik at Dr. E. O. Hovey's orders or that may be procured from the stores at Etah will augment the supplies on hand. These supplies will

be listed later when it becomes certain what their character and extent will be.

The sugar supply should be carefully husbanded. With syrup, molasses, jam, fruit, and milk to contribute to the sugar needed the supply should be adequate.

The flour, meal, and cracker supply should be conserved as well as can consistently be done without serious deprivation or causing a feeling of need for more.

Molasses and maple syrup should be discriminately used. It is suggested that when used on breakfast foods the molasses be diluted "equal parts" with water, and that jams, fruits and cranberries be used as sweetening for breakfast foods.

It is hoped that the proposed list be agreeable to all members. Any suggestions that will add to the comfort or health or usefulness of the party will be most welcome.

H. Elmer Ekblaw.

Vol. 1 No. 12

		Total Amount	For Summer of 1916	From Feb. 1st to Aug. 1	For rest of year of 1916	Reserve for year
Flour		392 lbs	392	65		
Corn Meal		294 "	294	40		
Crackers		225 "	225	37		
Broken Crackers		160 "	160	23		
Chowder	3 lb. tins	120 tins	72	12	48	
Corned Beef Hash	1 " "	240 "	144	24	96	
Salmon		96 "	48	8	48	
Pork and Beans		72 "	48	8	24	
Hams		75 lbs	50	8 lbs	25	
Soup	1 " "	144 tins	96	16 tins	48	
Peaches	2½ " "	24 tins	12	2	12	
Pears	2½ " "	48 "	24	4	24	
Cherries	2½ " "	48 "	24	4	24	
Pineapples	2 " "	24 "	12	2	12	
Apples	3 " "	48 "	24	4	24	
Prunes	1 lb. cartons	108 "	72	12	36	

		Total Amount	For Summer of 1916	From Feb. 1 to Aug. 1	For each month after Aug. 1 1916	Reserve for 4th yr
Corn	2 lb tins	120 tins	80	13	40	
Peas	2 " "	72 "	48	8	24	
Tomatoes	3 " "	48 "	48	8		
Oatmeal	1½ lb cartons	36 pkts	24	4	12	
Cream Cereal	1¾ " "	36 "	24	4	12	
Grape Nuts	1	24 "	16	3	8	
Buckwheat	1½ " "	36 "	24	4	12	
Milk		240 tins	160	27	80	
Butter	1 " tins	100 "	100	16+		
Molasses	5 gal kegs	20 gal				
Maple Syrup	1 " tins	5 gal				
Lard	3 lb. "	40 tins	40	6+		
Raspberry Jam	1 lb. jars	48 jars	36	6	12	
Strawberry "	1 " "	48 "	36	6	12	
Cranberries	2 " tins	48 tins	36	6		
Dried Fruit		198 lbs.				
Malted Milk		25 "				

I suggest that

Of beans we need about 200 lbs. } For breakfasts
Of salt pork " " " 100 lbs. }

Eoll

From supplies as listed I derive the following for full party all the time, but there will be much absence

Daily. Flour	$2\frac{1}{6}$ lbs	= bread say 3.5 lbs	
Cornmeal	$1\frac{1}{3}$ "	1.3	
Crackers	$1\frac{1}{6}$ "	1.2	
Broken "	$\frac{9}{10}$ "	.9	
		6.9 lbs = 1 pound per ~~ration~~	

Chowder and soup. 50 lbs + 50 lbs H_2O = 100 lbs. = 14 portions of 1 pint each per man per month.
(Once Every other day)

Corned beef hash	48 lbs = 96 portions	or 14 portions per person per month	
Salmon	8 lbs = 16 "	$2\frac{2}{7}$ "	" " " "
Pork + Beans (canned)	8 lbs = 16 "	$2\frac{2}{7}$ "	—
Ham	8 lbs = 24 "	$3\frac{3}{7}$ "	—
		22	

Selection at one meal each of 2 days out of 3 or (22 days of month)
or use ~~any~~ chowder + soup as meals on 8 days to complete month

---

~~Pears~~ Canned fruit + ~~prunes~~ 16 cans
prunes 12 lbs

Selection at one meal per day on 28 days of the month.

Canned vegetables. Corn on $6\frac{1}{2}$ days, peas on 4 days and tomatoes on 8 (?) days - Total $18\frac{1}{2}$ days of month

Cereals - Oatmeal 6 lbs - 8 breakfasts for crowd
Cream ~~wood~~ cereal 7 lbs 8 do
Grapenuts 3 - lbs 4 do
Buckwheat 6 lbs 8 do
28 days of month

Milk 1 can per day for 27 days
Butter 1/2 lb " " " month
Jams 1 lb " " " "

5 gal
4
1500 qts
300
5

~~Paste~~ Sugar ~~300~~ 300 lbs = 3/5 lb. per day for party for 6 months
Molasses 30 gal = 2/3 quart " " " " " " "
Maple syrup 5 gal = 1 pint " " " " " 80 days (one meal each)

Dried fruits 148 lbs. = 444 lbs sauce = 3 lb. portion for 148 meals for party.
Malted milk 25 lbs.

Bfs. - Cereal, with sugar and milk or jam or molasses.
Bread, crackers and/or griddle cakes. Butter.
Coffee
} no meat

Dinner. Canned meat or equivalent (chowder or soup)
Canned vegetable or dried fruit
Canned fruit as dessert 28 days of month
Bread or crackers. Butter
Tea

Egumgowk
2 lg. dog biscuit boxes
1 small " " box
caribou-skins
1 case dog biscuit
2 small boxes codfish
5 gal oil. (2 at Nerkeu)

Arkis
Rice
2 boxes dehydro
1 box sausage
1 " bacon
1 case fruit

Ootak
2 boxes white biscuit
1 box dark biscuit
1 rifle-case
(1 case oil)

Exayoo
1 case pemmican (Nerkeu)

Tonchingwa
1 case pemmican

	No. loads	Pd		Pd
Angmaldeto	1		Oolah	X
Ahugodablaho	1	X	Arkeio	X
Eevik	1	X	Pooadloorah	X
Eginguwa	1	X	Kawalooklow	X
Siglow	1	X	Ooblayah	X
Bozeman	3	(Peter Jay) 5 Kd		
Koolootua	½			

Angmaloketo.	Ahugodablaho	Ooblayah.
1 Anorak	1 anorak	.55 cartridges ✓
1 large file	1 large file	1 pipe ✓
1 scissors	1 scissors	tobacco smoking ✓
1 pipe	1 pipe	
5 pk tobacco (Plowboy)	5 pk tobacco (plowboy)	
1 plug "	1 plug "	
~~1 hatchet~~	Mayah for Helmus meat. —	Pudgah for Cheekuyna
1 saw.	1 pk tobacco. ✓	" Megiwoo
	1 file. ✓	~~pudgah shirt~~ ✓
		~~Pudgah Ree~~
		Soap ✓

Eevik	Eginguwah	Siglow
1 anorak	2 anoraks	~~1 hatchet~~
1 large file	1 large file	~~1 large knife~~
1 scissors	1 scissors	~~1 pipe~~
1 pipe	1 pipe	~~10 pkt tobacco~~
10 pk tobacco (plowboy)	10 pk tobacco	~~1 plug tobacco~~
1 plug tobacco	1 plug tobacco	~~1 sweater~~
1 pkt tea	1 pkt tea	~~1 saw (?)~~
1 pkt. cigarettes	Shirt	~~1 pkt cigarettes~~
Powder & Lead later	1 pkt cigarettes	~~Powder & Lead~~
	Powder & Lead later	~~Soap~~
		~~pipe & 3 c~~

Bozeman	Koolootua
1 hatchet	pipe
1 saw	tobacco
1 pipe	
10 pkt tobacco	
1 plug tobacco	
1 pkt. cigarettes	
~~1 soap~~	
1 large file	

To be paid when head is paid

Paid in full

Oolah pd. in full

Arkeio pd. in full.

8 x10 6 35 00 / 2800 80

	sea 1 kilo @ 5 k	5.00
	kapa 1. kelu. 4. k	40
	tit 1 daga. 35 ou ~~70~~ 60	21.00
10 ~~10~~	kauitut. 1. k	10.00
1	kaotak. 6. 50 ou	6.50
2	atatit mouit. 1. k	2
1	atatitit anilugyut 5. k	5.
1	kutejin eguuma. 5. k	5.
1	kulesut. 2. ~~00~~ k	2.50
1	unadek. 3 k	3.00
	amerlanat. 5. k	2.50
	matches ~~1 k 50~~ 2 k 50	~~4 k~~
	stove (2) 24 kr. ~~24~~	152.50

Ah wi ock tung i a

26
40
10
5
13
25
5
2
24
24
2.50
156.50
39.

Augmalokto.
Tevik.
Eguguak.
Ahugodablaks.
Sigoo.
Hoolootuna. By Peter(?)
Bozeman. By Peter
Simmie. at Etak
Astrup. " "
Paukfak " "
Etukasook (cached)
Ibrlick (")

Salmon 6 tins
Milk 5 tins
Corn 2 "
~~Rice~~ 4 pkts
Beans 3 tins
~~Syrup~~ 4 tins
Bread
Sugar.
Tobacco 15 pk. plowboy
" 4 " Central Union

To Hal ~~4 pk.~~ Central Union.

10 - 1 lb packages smoking
4 doz Central Union cut plug
22 pk. Oronoko smoking
21 " Winner Cut Plug
89 " Plowboy
30 " Central Union Cut Plug
16 " Maine,
15 lbs. Battle Axe
500 Tokio cigarettes.
6 prs pants.

91
89
180
30
16
2)226
113

24 to total
Spray
Juice
Jelly

Nuggets
Cracker Jack
Ribbon
Pants
Coat + band
Redshirt
Pocket knife to Revolto
(for walrus meat)
Pipe tobacco
Large file

Solid Alcohol
1000 needles
8 scissors
6 knives
10 files flat bastard
4 round files
1 triangle "
16 hatches
9 saws
10000 primers
48 lbs powder
200 " lead.

---

2 towels
12 yds gingham
20 " ribbon
2 towels (3)
12 pipes
1 cap
8 yds lace
8 scissors
~~[illegible]~~

1 handkerchiefs

20 pipes
15 anoraks
1 doz thimbles
500 needles
12 spools thread
60 packages tobacco
8 lbs plug
3 towels
6 undershirts
1 cap
1 big knife

Biscuit Box

Tags {Large & Small
Labels Crockerland 6
Can Openers
Small / Coarse } Fish line
Charcoal sticks
" crayons
Cotton
Geology Labels
Bolting Cloth
Droppers
Very small nails
Cyanide Jar.
Extra paper.
Mucilage
Mechanics' Soap Bill
Arsenic & Alum
Thumb Tacks
Empty boxes
Butterfly nets
Small nets
Insect Labels
Scissors net
Spreading Butterfly
Medicine Kit
Empty vials
Corks
Cord & string
Small Tray
Geology Bags
Paper bags.
" Envelopes.
Nomatik Bag
Small Geology Hammer

Personal Box

1 Box Film Packs
1 " developed plates
1 brown suit
1 carpenters rule
1 blue jersey
1 gray "
2 the girls' pictures (framed)
Crockerland Correspondence & data.
Ecology Notebook
5 pr. stockings
Suchmann & Emilia's gifts
Moccasin things (box)
Harper's Geography
Envelopes of Clippings
Meteorite
Scrap-book
Pennants
So. Greenland bag.
1 rubber blanket
2 lead pencils

Big box

10 sticks Battle Axe
8 " Plug
~~1 half~~ bag tra 2½
1 bag tobacco
3 heavy undershirts
3 " prs sox
1 pair pants
3 blanket shirts
1 roll log line
1 gray shirt
1 rabbit skin cap
4 bolts mosquito net.
1 roll bearskin

Wooden Pilot Bread Box

Balances
Bandage
Labels
Magnesium Ribbon
U of I Register
Amadlungwa's mittens
Box chocolates
Illinois & Kansas Agric
U of I Catalogue
Gamma Alpha Directory
Bearskin Kamik pieces

Box # 1/2

5 rolls toilet paper
3 boxes vials
Filter paper
Strips for vasenlinus
1 long forceps.
Empty soil tins
2 fish lines
1 portfolio metal clothes brush
Some paper
" tow
Acid paper
Packing "
~~Packing~~
Vasenelinus & trowel

Box U. 1

Botany Paper
1 Wooden Press
5 small axes
Insect Powder
Potmend
Film Pack back for Camera
Much tow
Bruce Mich. Box
Empty Insect Box

209 185

535 375
535
1875
1125
1875
20,0625

12
375
750
375
28,00
45,00
450

Every

Received from mr Ekblaw

80 lbs lead
100 " white biscuit & all.
20 " corn meal
1 box dehydro
15 lbs rice
15 " beans
21 tins soup
8 " apples
1 " cherries
2 " pears
6 " tomatoes
all this
24 pkts prunes all
6 " r of wheat
4 " oatmeal
2 " grapenuts
6 tins sweet corn all
24 " peas all
2 boxes dog biscuit
1 " lard
1 tin butter
10 " lam chowder
4 " salmon
1 case hash all
12 tins milk all.
4 pkts buckwheat
2 hams
2 flitches bacon
18 tins solid alcohol all
6 " cranberries
24 " jam all

Thule 27 sept 1916

Peter Freuchen

Plain numbers - seal numbers in ring - Square flipper seal.
numbers in square walrus

Game Killed at Unuanak

May

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Mene Egingwa (Hal etc)	(1)				4		2										1	3			(1)
																8		4			
	22	23	24	25	26	27	28	29	30	31	1 (June)	2	3	4	5	6	7	8	9	10	11
Mene Egingwa			1										(1)		1				1		
			8	1								3	4	1	2					3	
	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	1 (July)	2
Mene Egingwa	1		5			[3]															
	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23

Parker Snow Bay
26 april, 1916.

List of goods sent to Umanak
to-day by Mene -

1 Bag grass.
1 Bucket vinegar.
1 Keg molasses
2 Tins butter
1 Box cornmeal

E O Hovey.

Scientific Box

Arsenic + Alum Mixture
In Biscuit Box
6 Crockeriano Exped. Blanks.
1 Geology Blank Record Book
Charcoal
Cotton Roll (small)
Charcoal Erasers.
Can openers.
Bolting Cloth
Droppers
15 cc. graduate
1 roll adhesive
Object labels.
Letters & Tank.
.32 rim-fire cartridges
Specimen labels (in paper bag)
Butterfly net.
~~Surgical Kit~~
Cyanide Jar.
Butterfly setting.
Celluloid Soap Paste.
Fish Line
Knives
Thumb Tacks
Corks.
Small Nets
Surgical Kit.
Butterfly Net Frame
Netting + Frame.
Note Paper
Tin nails (1 penny)
3 Empty Needling Boxes.
Cyanide Jar
Butterfly Spreaders.
2 Small Trays
Fish Hook
Coarse Fish Line
Small Miscellany
Soil Tubes
Lower Glasses (in small wooden box)
Butterfly Net

Tobacco Box

~~10 Plug boy~~
~~41 Central Union small.~~
~~2313 Central Union (Bgs.~~
~~6 Hoyt~~
~~4 Battle Aps Plug.~~
2 One Pound Packages.
About 40 pkts Cigarettes
11 Battle Ax Plug
(17 Packages Cigarettes.)
~~4 Burlwertier Tobacco~~
~~1 Bag Chewing~~
3 Blanket Shirts
4 Pr. Horses
2 Packages Tea.
4 Heavy Wool shirts

Nahdikshas
1 Ahcotinqwa
3 Jonnaho
1 Anowee

2 pks per wk

Wicker Box

Left Side (facing) Right End

3 Bath Towels
Cloth for Seals.
5 Handkerchiefs
5 Nahdikshas
1 Piece Pes Cloth
6 Towels +
Wrappings
2 Cap Gray
1 Piece Light Flannel
1 " Black Oilcloth
1 blue cap
1 Knife

~~46~~ Handkerchiefs (Children's)

Personal Goods.

18 pks. cigarettes
2 pr. Thin Mits
2 pk. Toilet Paper
10 Pocket Knives
7 rolls tape
4 decks cards
Fine Thread + Buttons
Ribbon
Lace
3 Nahdikshas
Needles
6 Towels
1 pr Mittens (red)
Coarse thread
Thimbles
Pipes

Trinkets for kids
Shirt

Box W.1

~~Bird Bands?~~
Botany papers
Binocular Microscope
Plate back for camera
Schmidt Box containing
Mounting Paper
Paper Envelopes.
American flags
Potatoes.
Paper Bags
Horse Bandages
Wooden Botany Portfolio
Much low

Box W.2

Oiled Paper
Wrapping Paper.
3 Boxes Vials
5 Rolls Toilet Paper
1 bag Vials
2 fish lines
3 small square bottles
1 box filter paper
1 long forceps
Cloth labels
~~Little tow~~
4 Soil Boxes
Clothes Brush

Laundry Bag

Dirty Clothes

From Herdenck
Alcohol
Oil
Sweater
Stove Top
Soft Soap

Work to do.
Catalogue boxes at Estab.
Mount last summer's new specimens
Pack carefully the preceding
Look over filmes!

Bird Bands left Numbers are Inclusive

12207 - 12218 12219 - 12230 ✓
1170 - ~~1189~~ 1189 ✓ ~~1188~~ 1189
3701 - 3735 ✓
3722 lost
4626 - 4630 ✓
5135 - 5150 ✓
5126 - 5130 ✓
13959 - 13975 - 2 gyrfalcon 13976 - 14000
13869 lost.
5981 - 5995 ✓
Recorded
12181 - 12206
12219 - 12218

Are in transit

13957 - Female
13968 - male.

64 - 1199
1170 - 1199
3701 - 3735 (3722 lost.)
4626 - 4630
5126 - 5130
5135 - 5150
5981 - 5995
12181 - 12230 {12181 - 12206 recorded} {12219 - 12218 "}
13957 - 14000 (13869 lost < 13957 / 13968 } recorded m gyrfalcon.

Personal Effects
P. Personal Effects
Letters
Lepidoptera Boxes
Camera
Photo Ammo.
Gunny Paper
Smoke Eaters
1 Box Rubber Tight (in Bunco)
1 gas Lime Economic Stoves
2 Boxes Poker Chips
1 Box Winter Clothes

Jack 13 Powder
2 Packs Swiss
3 Packs Ammunition
Pistol Ammunition
Pistol Bullets

P. Bags
B. Bags
Gunny Bag
Gunny Bags
3 Oilcloth
Pistol Bags

My personal Goods

Potatoes
Beans
Buckwheat Quinoa

Big Box Hunter.

Hale's Personal Goods

Dr. Stanghouse

Sealed Milk
Canday
Drumilk
2 Milk
2 Milk
Milk
Milk
Milk
Sugar

Molasses Molasses 3 Dehydrated Beans Canday Sausage
Molasses 6 Butter Dehydrated Peas Pork Canned Meat Salmon
3 Butter

Celery Pineapple Gooseberry Sauce
Prunes Peaches Corn S. Peas Kidney
Apples Cherries Corn Peas Hash
Apples Tomatoes Corn Beans Corned Beef Hash
Peas Tomatoes Corn Peas Potato Salmon Hash
Peas Oats Salmon Hash

Pancake Syrup
Corn Meal

6 Cases

1111

U3 — Pilot Bread Box

U. of I. report —
1 box chocolates — 2 boxes potato chips / 1 box [illegible]
U of register
Gamma Alpha Records
Illinois
Ahnadlungwas mittens
1 Suit Underwear

Tobacco Box —
1 carton Plowboy
1 " Winner
48 pkt. Quadrattiers
35 " D. Mixture
22 " Central Union
Cigarette Papers.

Clothes Bag — Bed Ticking No. 1
Mackintosh
Seal Netcha (Hair cleaner)
Sleeping stockings
Red Sweater (Tanks)
Several pairs Hose
Light mittens (on top)
2 old pr. pants
1 new " "
Dandyke socks.
1 J-shirt
2 Sheepskin shirts
1 " Pants
1 pr

Clothes Bag (Small Bed Ticking)
4 Light Under drawers + Pajamas
5 ~~4~~ " " shirts + "
2 prs. light mittens
1 " half mits
1 winter cap.
~~1 pr. sealskin mittens~~
2 bed light outer shirts
Butterfly netting & varying finness
1 plucking sole.

Duffel Bag — Personal.
2 suits light Underwear
1 suit heavy "
Seelman + Emelie's gift
Red + Blue Bandanas.
4 prs hose
1 pr. running Trunks
1 light gray cap
1 pr. wristlets
1 red sweater
1 " coat
1 Rasmussen sweater
1 gray shirt
1 " trousers

Duffel Bag — Tank's.
4 pr. Hose
1 Blanket Shirt
Tank's Red coat.
" gray pants
Oes kamiks
Dirty underwear

Duffel Bag with Slater
1 pair heavy boots
1 " moccasins (out in room.
1 " rubber shoes
1 " felt shoes
1 " bearskin pants.

Duffel Bag — Cavalier.
1 pr. old kamiks
1 " walrus tusks
1 Kooletah (Sheepskin
1 rubber blanket
2 prs pants (old)
1 coat (Tank's goes)
1 Abercrombie & Fitch windproof
1 pr. wristlets
1 pr. sheepskin mittens
~~2 pr. moccasins~~

5 pieces kamik skin {4 large / 1 small
3 large pieces soli material
2 small " " "

Matches in big dog biscuit

Collect more:

~~Agrostis borealis~~

Arctagrostis latifolia

Calamagrostis purpurascens?

Calabroea aquatica?

Poas

Glyerias

~~Eriophorum~~

~~Carex recurvida~~

~~" repentis~~

" glareosa

" rigida?

" stans

" pulla

~~Juncus biglumis~~

Koenigia islandica

Stellaria longipes

Alsine verna
Melandrium apetalum
Ranunculus hyperboreus
" pygmaeus.
~~Dicentra Cucullaria~~
Papaver.
~~Cardamine bellidifolia~~
~~Lesquerella arctica~~
~~Draba alpina~~
Chamaemorion
Hippuris vulgaris
~~Campanula rotundifolia~~
Erigeron compositus
" eriocephalus
Taraxacum officinale
" lap
~~Statice [illegible]~~

Lost sep
Gulbeer.

Lost sep
Lizzie

Plates — enough.
Cups — want several
knives — " "
forks — " "
spoons — from Upernivik
side-dishes —

Salmon 6 ✓
Milk — 5 ✓
~~Chowder — 2~~
Corn — 2 ✓
Bread —
Sugar —
Tea — 4 pkts. ✓
Beans — 3 cans ✓
Soup — 4 " ✓

Thule den 5/12 16:

Sent from s/s „Danmark" following stores with the eskimoes:

80 lbs flour
50 " Sugar
4 tins butter
12 gl jams
1 " mustard
1 smk ham
1 " sausage
1 pk pepper
1 bt eng sauce
lime juice, lobster, salmon, anchovis and sardines.

Chr. A. Hansen

Left in Peter's cave, Nov. 15, 1916.

80 lbs. lead
20 " corn meal
1 box dehydro
15 lbs. rice
15 " beans
21 tins soup.
6 pkts. wheat cereal
4 " oatmeal
3 " grape nuts
2 boxes dog biscuit
1 box lard
1 tin butter
10 " s clam chowder
4 " salmon
4 pkts. buckwheat
2 hams
2 flitches bacon
6 tins cranberries.

Woodsia ✓
Cystopteris ✓
Dryopteris ✓
Equisetum ✓
Lycopodium ✓

Hierochloe ✓
Alopecurus ✓
Agrostis ✓
Ductylagrostis ✓
Calamagrostis ✓
Aira ✓
Trisetum ✓
Phippsia ✓
Pleuropogon ✓
Poa ✓
Colpodium
Arctophila
Dupontia
Glyceria ✓
Festuca ✓
Agropyrum
Elymus

Scirpus
Eriophorum ✓
Cobresia ✓ Elyna
Carex ✓
Juncus ✓
Luzula ✓

Tofieldia
Salix ✓
Betula
Koenigia ✓
Oxyria ✓
Koenigia
Polygonum ✓
Rumex
Stellaria ✓
Cerastium ✓
Sagina
Honckenya ✓
Arenaria ✓
Alsine ✓

Silene ✓
Viscaria
Melandrium ✓

Caltha
Anemone
Ranunculus ✓
Papaver ✓
Cochlearia ✓
Eutrema ✓
Cardamine ✓
Lesquerella ✓
Draba ✓
Arabis ✓
Braya
Hesperis ✓
Chrysosplenium
Saxifraga ✓

Dryas ✓
Geum
Potentilla ✓
Oxytropis
Empetrum ✓
Chamaenerium ✓
Epilobium
Hippuris ✓
Pyrola ✓
Ledum
Rhododendron ✓
Loiseleuria
Bryanthus
Cassiope ✓
Arctostaphylos
Vaccinium ✓

Diapensia
Androsace
Primula
Statice ✓
Polemonium
Mertensia ✓
Euphrasia
Bartschia
Pedicularis ✓
Campanula ✓

Pinguicula
Plantago
Erigeron ✓
Antennaria ✓
Gnaphalium
Artemisia
Arnica ✓
Taraxacum ✓

-1-	-2-	-3-	-4-	-5-
1.360	1.235	1.400	1.400	1.350
0.720	.670	0.720	.720	.710
0.295	.225	0.255	.252	.240
0.134	.133	0.149	.139	.142
0.127	.108	0.121	.119	.117
0.048	.038	0.042	.040	.052
0049	.045	0.050	.049	.055
♂s	♀s	♂m	♂m	♂s

-6-	-7-	-8-	-9-	-10-	-11-	-12-
1.350	1.352	1.298	1.350	1.310	1.280	1.380
.718	.730	.700	.730	.700	.700	.715
.242	.248	.232	.235	.225	.245	.249
.138	.136	.128	.140	.137	.132	.131
.128	.112	.118	.120	.116	.118	.125
.041	.043	.036	.035	.043	.039	.044
.050	.051	.051	.051	.047	.048	.051
♀s	♀s	♂d	♂d	♂d	♀s	♂d

-13-	-14-	-15-	-16-	-17-	-18-
1.380	1.390	1.312	1.320	1.386	1.370
.715	.725	.730	.730	.735	.715
.236	.240	.235	.236	.241	.234
.136	.130	.140	.137	.148	.148
.128	.116	.114	.123	.112	.110
.045	.034	.035	.048	.045	.038
.052	.050	.050	.052	.046	.049
♂d	♀s	♂d	♀m	♂d.	♀s

-19-	-20-	-21-	-22-	-23-
1.350	1.330	1.370	1.355	1.380
.710	.700	.698	.705	.712
.255	.236	.294	.246	.232
.144	.134	.137	.152	.170
.112	.115	.123	.112	.118
.042	.044	.045	.046	.045
.051	.048	.050	.051	.050
♀s	♀	♂m	♀s	♂s

-24-	25
1.425	
.745	
.251	
.150	
.115	
.043	
.051	
♀s.	

Sam Harvey will make a little tobacco, maybe twelve, etc. back 3 roads from the beach. Lady may between. The handling wood and the coal, in as piece of rocks beside, big friendly fellow.

Sam Harvey
1 cake soap
1 dung. fire shirt
1 pkg cds
1 piece walnut black ching
2 pkg tobacco.
1 pipe to Pete

32 mother cutting

7 Gavia immer
9 " arctica
11 " stellata
13a Fratercula arctica naumanni
27 Cepphus grylle
28 " mandtii
31 Uria lomvia lomvia
34 Alle alle

37 Stercorarius parasiticus
38 " longicaudis
39 Pagophila alba
40 Rissa tridylus tridactylus
42 Larus hyperboreus
62 Xema sabinei
71 Sterna paradisea
86 Fulmarus glacialis glacialis

154 Harelda hyemalis
159 Somateria mollissima borealis
162 " spectabilis
169a Chen hyperboreus nivalis
173 Brenta bernicla glaucogastra

222 Phalaropus fulicarius
223 Lobipes lobates
234 Tringa canutus
239 Pisobia maculata
241 " bairdii
248 Calidris leucophea (arenaria)
270 Squatarola squatarola
275 Aegilitis hiaticula
283a Arenaria interpres morinella

302 Lagopus rupestris rupestris
353 Falco islandus
354 " rusticolus rusticolus
354a " " gyrfalco
354b " " obsoletus
376 Nyctea nyctea
486a Corvus corax principalis

527a Acanthis hornemanni hornemanni
534 Plectrophenax nivalis nivalis
536 Calcarius lapponicus lapponicus
765a Saxicola oenanthe leucorhoa

Monthly Apportionment of Provisions.

Bread Supplies.

Winter Wheat	B	11½ lbs.
Honeyboy		23½ "
Whole Wheat		11½ "
Hominy		23 "
Yellowmeal		17 "
Brown Bread		12 tins
White Wheat Biscuit		37½ lbs.
Whole Wheat Biscuit		83½ "
Baking Powder		6 tins
Yeast		24 "

Meats and Fish.

Bacon	3¼ flitches (10 meals)
Ham	1 ham
Hash	6 tins
* Sausage	22 "
* Roast Beef	3 "
Roast Mutton	2 "
Deerfoot Farm Sausage	1 ""
Roast Beef	1-3 bbl.
Salt Pork	1-5 "
Salmon	10½ tins
Sardines	4 "
Codfish	2 "

Vegetables.

Tomatoes	13 tins
* Green Peas	1 "
Stringless Beans	3 "
Corn	13 "
Dried Green Peas	1-6 case
Pea Beans	1-5 "
Yellow-eyed Beans	1&1-3 cases
* Pork and Beans	31 tins
Barley	4 lbs.
Riced Potatoes	8 tins
Sliced Potatoes	9 "
Spinach	12 "
Onions	2½ "
Turnips	1½ "
Rhubarb	1½ "

Fruits.

Plums	5½ tins
Pineapple	2 "
Cherries	1½ "
Cranberry	1 "
Squash	7 "
Dried Apricots	-1 case
Dried Apples	1½ "
Raisins	- ½ tins
Prunes	- ½ "

Monthly Apportionment of Provisions(continued).

Cooking Necessities.	
Granulated Sugar	4½ lbs.
Brown Sugar	4&1-6 lbs.
Candy Sugar	1 lb.
Crisco	5&1-3 lbs.
Suet	½ keg
Molasses	1&1-3 tins
Butter	24 tins
Cereals.	
Rolled Oats	17 lbs.
Cream of Wheat	3½ pkts.
Rice	12½ lbs.
Beverages	
Chocolate	30 lbs.
Tea	23½ "
Miscellanies.	
Raspberry Preserves)	
Blackberry ")	1¼ tins
Strawberry ")	
Orange Marmalade	2-3 tin
Datenut Butter	2&1-3 glasses
Mincemeat	25&2-3 pkts.
Buckwheat Flour	10½ lbs.
* Macaroni	6¼ "
Knorr's Soups	8 pkts.
Erbswurst	7 "

ste

Finish up caches.
Take up my personal stuff.
" " Mac's photographic stuff.
" " Fitz's and Peter's stuff.

~~My personal property~~

Aboard ship
1 case nuts and candy
1 " milk

My personal property:

suit case
4 bags { 2 bed ticking
2 canvas
4 boxes in hold { 2 army biscuit
1 big pemmican
1 mah pemmican
3 " in bathroom { 1 Pilot Bread
1 Small ammunition box

Mac's photographic stuff as listed

Fitz - 1 suit case
1 leather hat box

Peter's - Chronometer

Alway's ~~Alway's~~

Parker Snow Bay
January 7, 1916

My dear Peter

31
50
15.50

× 1 Winchester 45-70 — To Uncle
1 Geological Hammer + Sheath —
× 1 Pr Field Glass - - - - - - - - - - - - -
× 1 " Large Glass - - - - - - - - - -
1 Ball Jumper - ? - - - - - - - - - - -
× 1 Copy Stubbs - - - - - - - - - - -

~~2 cases figs~~
~~2 cases figs~~

Eginguna

2 big dog biscuits my stuff ✓	80 ✓
1 small " " grub ✓	40 ✓
caribou skins ✓	20 ✓
1 case pemmican Eng.	196 at Nelson

Ootak

2 boxes white biscuit ✓	100
1 " dark "	100
1 box bacon ✓	30

Arkio

1 Rice	50 ✓
3 boxes dehydro	90 ✓
1 box sausage	20 ✓
~~2 cases pemmican~~	~~72~~
~~992~~	✓
1 case fruit	
1 " oil	70 ✓
1 " pemmican	56

~~Bears~~

1 case dog-biscuit Eng.
1 case pemmican - Pawchuna

The International Grenfell Association Inc. SCHOONER GEORGE B. CLUETT

To..... Sheet No..... Date..... 191

Three other letters
Bankers Life Ins. Co.
To herself
To First Natl. Bk. Champaign
} In addition to letter witnessed

Fifth letter to Elmer S. Tanquary. = In addition to 4 mentioned

Insur policy 142914
First Beneficiary Mrs Flora Tanquary.
Second " Elmer S. "
Third " Josephine Perry.

Left to 1st Natl. Bk. Champaign, Ills.
Pay all moneys to her, she to pay $100 Acacia note

Left to Elmer S Tanquary
all Tom's share of income from farm including from oil well or wells.

Plan for Summer Season's Work at North Star Bay, during 1916; being merely a tentative plan.

Geological.

I Glacial -

1 1. Reconnaissance study of glaciers between Etah and Cape Cleveland, if I make the trip to Etah. Will occupy time from March 1st to April 1st, with one week's side trip into Inglefield Gulf, Rowdown Bay and Olrik's Fjord.

2. Ten days' work on glaciers of Grenville Bay where most types of glaciers and glacial phenomena occur. Some time of April or May, or some June.

3. Intensive study of Rheinstein and Moltke glaciers at head of Wolstenholme Sound.

1. A study of the edge of the glacial ice along the back of Thule.

5. Some study of effect of former glaciation upon land: about Grenville.

II Structural [illegible]

1. Observations on features of erosional cycle in this latitude

2. " " [illegible] glacial features.

3. Study of sedimentaries [illegible] Bay, Olrik's Sd. Inlet.

4. " " Intrusives and [illegible]

Botanical.

I Collections of specimens, and study of vegetation, about Grenville Bay

II Continuance of collections from Thule.

III Extensive collections in Saunders Island

IV. Collections of specimens from Parker Snow Bay

V. Study of plant associations about Wolstenholme Sd.

VI. Relations of edaphic and climatic factors to vegetation

Ornithological

I Continuation of studies of breeding, nesting and nesting habits of birds that frequent Thule.

II Collection of skins and eggs.

Couldn't Fool Him.—SANDY (newly arrived in the Canadian forest-land)—"Whatna beast's yon?"

NATIVE—"A young moose."

SANDY—"Och, haud yer tongue! If that's a young moose, I'd like to see ane o' yer auld rats!"—*Tit-Bits.*

were walking up the Avenue. The Senator was more than middle-aged and considerably more than fat, and, dearly as the Major loved him, he also loved his joke.

The Senator turned with a pleased expression on his benign countenance and said, "Major, did you see that pretty girl smile at me?"

"Oh, that's nothing," replied his friend

The International Grenfell Association Inc.

SCHOONER GEORGE B. CLUETT

To..... Sheet No..... Date..... 191

	Dec	Jan	Feb	Nov
1	30.43	29.66		
2	29.86	29.66		
3	30.20	29.50		
4	30.52	29.68		
5	30.60	29.91		
6	30.38	29.72		
7	30.27	29.50		
8	29.98	29.26		
9	29.78	29.61		
10	29.94	30.19		
11	30.05	30.19		
12	29.80	29.93		
13	29.50	30.16		
14	29.57	30.35		
15	30.00	29.57		
16	30.10	29.43		
17	30.20	29.27		
18	30.02	28.68		
19	29.94	28.69		
20	29.60	29.35		
21	29.74	29.17		
22	29.64	29.43		
23	29.58	29.56		
24	29.78	29.18		
25	29.95	29.26		29.84
26	30.04	28.98		30.00
27	30.16	29.42		30.05
28	29.98	29.34		30.16
29	29.97	29.00		30.27
30	29.78	29.26		30.56
31	29.69	29.20		

-over-

Hal's Kamiks
Smoking Tobacco
Malted Milk.
Alcohol
Sleeping Bag
Dr. Hovey. Washpaff.
Kamik Material
Sashing

Shot
~~Cotton Duck~~
Saw blades for Chief

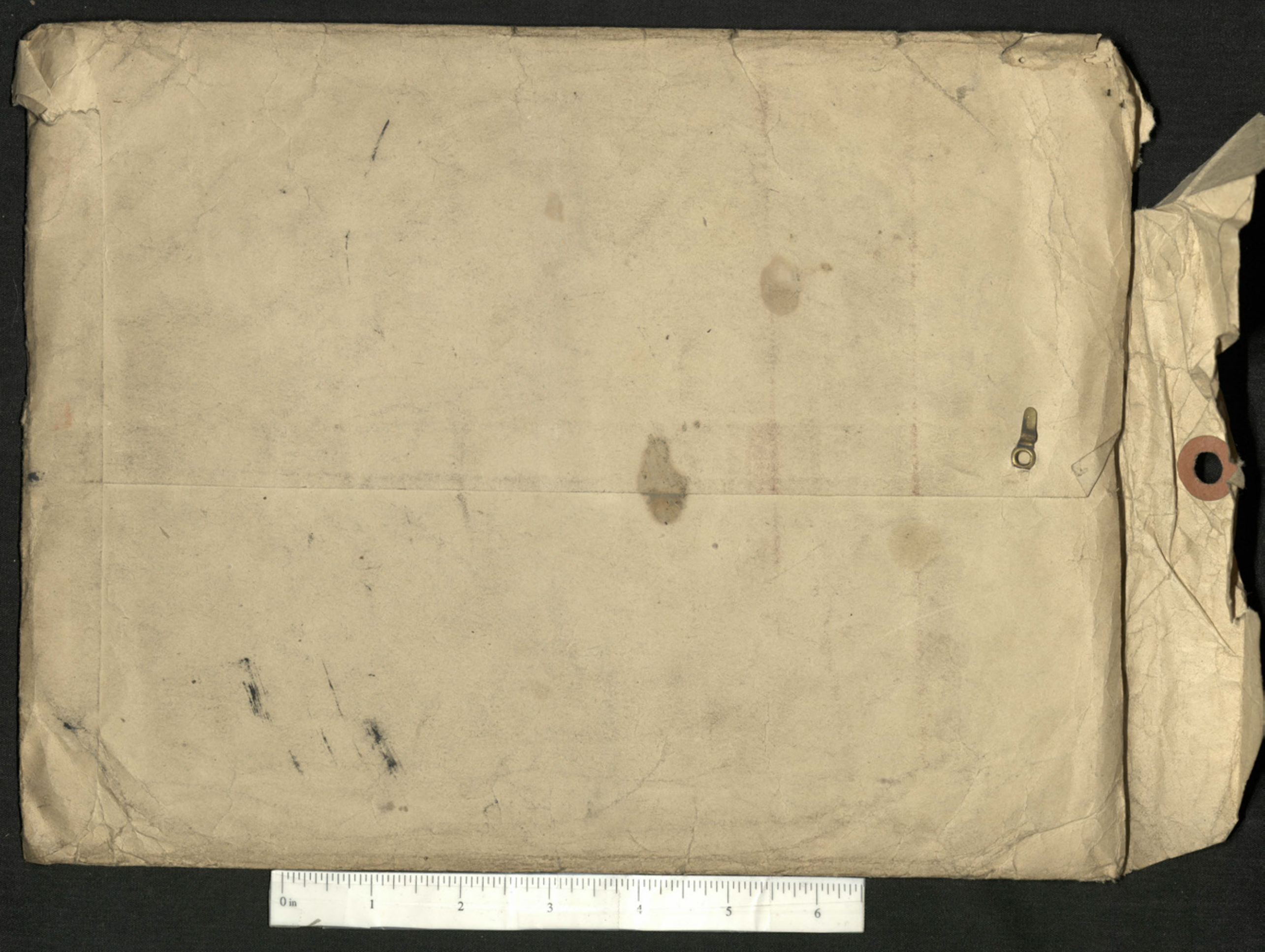
Mittens for Mate

From
A. Krieger
Highland Park Ill.

Data

Mr. W. Elmer Ekblaw
Museum of Natl. History
New York City

c/o Dr. E. O. Hovey.



Microscopes - 2 Leitz or Zeiss Binocular Microscopes fully equipped (estimated)	180.00
Pocket knives (K. S. Co.)	
2 NS/493 ..... @ 60¢	1.20
1 NS/511, 1 blade - Nat. stag handle	1.00
Plaster Paris - 10 lbs. @ 10¢	1.00
Carbon bi sulphide - 5 lbs. @ 30¢	1.50
Equipment for prepairing skins of mammals, birds, etc.	
Equipment for deep dredging	
Preservatives	
Containers for preserved material	
Total	

New York, 25 June, 1913.

My dear Bargh:

Dr. Tanquary and I sail next Wednesday, July 2nd, at 3 p. m., and because of the rush of preparation I may not be able to write you at length regarding our final arrangements, unless I do so at this time. It may be of interest to our friends in the University and the twin cities to know that we shall be able to obtain mail until July 10th at Sydney, Nova Scotia, care of the Crocker Land Expedition, when we leave that port for the North. After that time any mail for us should be addressed to the American Museum of Natural History, 77th Street and Central Park West, New York, c/o Dr. Edmund Otis Hovey. From the Museum all the mail which collects will be forwarded to Denmark, whence it will be sent to Greenland and left by a Danish schooner on a prominent rock at Inglefield Gulf, where our Eskimos will go after it once a year. I was talking to Fred Stone of Montgomery & Stone, just this morning, and he assures me that he and Rex Beach and one or two others intend to make us a visit in Ellesmere Land next summer and bring our mail to us with such other supplies as may be left for us at the Museum. We shall be glad then to hear from any of our friends about the University.

Our party is all gathered together and working continuously to have everything shipshape when we draw anchor next Wednesday. All of us are in good health and being kept so by our physician, Harrison J. Hunt, graduate of Bowdoin of several years ago and a very competent physician and admirable man.

I feel that our companions on this expedition are all men of the finest character and the most courageous and candid temperament, and that we are connected with as fine a body of men as ever went into the Arctic.

I cannot help speaking of the splendid treatment which the American Museum is according us and of the time and attention that its scientific staff are giving to us. It is a pleasure to be connected with an institution which

has such high aims and ideals and which does so much unselfishly to further the cause of general science. It is marvellous to note all that is being done in all the sciences by the men of this institution. I am sincerely grateful that the University of Illinois is associated with the Museum in this expedition, which is really one of the most significant scientific ventures in which the Museum has engaged.

All news of our expedition will be published by the NEW YORK TRIBUNE, a paper with which the authorities here have syndicated our news from the North. Should the DAILY ILLINI care to publish the news from our expedition, it ought to get in communication with the NEW YORK TRIBUNE next fall as soon as school starts, for I am sure it can procure the news there as fast as it comes in. As the time for our departure approaches, I am more and more anxious to be off and get started in the work for which I have been spending all my time and effort for the last six months in preparation. We shall try to get another letter to you or to the "Summer Illini" before we finally leave Sydney, but in case we have no opportunity to do so, we wish to say farewell through your columns to all our friends. The Arctic Illini Club, which we shall comprise in the North, will be as loyal as any ever formed, and if any class other than 1907 or 1910 can show a club farther away than this one, we should like to hear of it.

Loyally yours,

Am. Mus. Nat. Hist.,
New York City.

Mr. George Bargh,
"The Summer Illini,"
University of Illinois,
URBANA,
Ill.

W.E.E./B.P.

Botany

Emmert Aufsend. (?)

No. 2144 with ~~Troth~~ ~~Gruts~~ Troy weights. 8.00

~~also~~ ~~2203~~ .01 up to 1. gr.

2201 (2 sets) @ 50¢ 1.00

2204 1. gr up to 200. @ 1.50

2 sets @ 1.50 3.00

Thermometers

Eight No. 4916 Spirit Min. @ 2.00 ~~2.00~~ 16.00

Eight " 4915 Mer. Max @ 2.00 ~~2.00~~ 16.00

Four " 4917 Combined @ 3.00 12.00

One " 4920 8.25

~~Eight Soil Thermometers~~ Estimated @ 2.00 16.00

~~Two Thousand Assorted Hawks Eggs velops of Tough & Durable Paper.~~ 5.00

~~Two Hundred Tight Tin Cases with very Tight Fitting Covers to hold 100 gm Soil.~~ 20¢

Soil tubes

Picric Acid 250 gr.

Corrosive Sublimate 200 gr.

Acetic Acid (Glacial) 3 L.

Formaldehyde 2000 gr.

2407

Ornithology — Smith* Reeves $1.00 30 gts of

~~Cost~~

Entomology — McGillivray, Peterson Hart

2400
2410
420

$1.00

Geology
- Mineralogy.
- Paleontology
- Stratigraphy.
- Physiography.
- Glaciology.
- Structure.

Botany

Barrett*, Gleason, Adams*

Taxonomy
- of Mosses — Mrs. Britton - N.Y. Botan. Garg. Prof. Andrews, Dept of Mod. Lang (Dan & Row)
- of Lichens — Bruce Fink, Miami Col. Oxford Ohio also Ill. mag. Prof of Botany
- of Phanerogams.

Ecology.

Zoology

Adams, Smith

50 Taxonomy

Ecology.

Psychology. Sutherland*

Mosses. — With Handbers & Microscope in determination

A. J. Grout
Teacher of Biology
Brooklyn School for

360 Lenox Road
Flatbush
Borough of Brooklyn.

Soil Preferences of Alpine Plants
M. L. Fernald, Gray Herbarium Cambridge Mass.
in Rhodora, Sept 1907, Vol. 9, No 105
740 Exchange Bldg Boston.

The Influ. of Underlying Rocks on
the Character of the Vegetation
H. C. Cowles.
Univ. of Chicago

Hahn's Hann, Julius ✓
Handbuch der Climatologie

Just (in Library)
Botanisches Jahresbericht. ✓

Plant Physiology - Jost. - English Translation ✓

Plant Anatomy — Stevens W.C. ✓

Physiologische Pflanzenanatomie — Haberlandt ✓

Henning Eiler Peterson } Anatomie ✓
Eug. Warming }

Kotter: Rate of Plant-transpiration
Starch manufacture

(Cytology Flemming's solution Carmine and Acetic acid for anatom)

Kiddmann's Pflanzenbiologische ~~des~~ ✓

Studien aus Russische Lapland + (Stuchert)
(other references in it).

(Vegetationsbilder) See Library
Karsten + Schenck)

Dr Torreya (about 1912 Apr.) by Rydberg
A collection of Plants from Greenland. ✓

Question at Tapes for plants a sgn. Indes

Nearly all plants will be perennial. Trouble propagating by seeds. - Look up - means of propagation.
Polygonum viviparum (flower buds metamor to bublits almost like onion sets.)
Series of flower buds ~~etc~~ ~~from~~ all through year.
Areas covered with snow all winter.
" bare part of time.

(over)

N.F. Bradford (W.) Life + Scenery in the Far North, royal 8vo, new half calf, gilt top, 1885.

Extract from the bulletin of the American Geographical Society.

N.F. Haughton (Rev. S.) On the fossils brought home from the Arctic regions in 1859, by Capt. Sir L. McClintock, 4 plates, 8vo, new half calf gilt, gilt top. Ex. Jour. Roy. Dublin Soc. 1860 8s.

See Catalogue of Francis Edwards, Bookseller
83 High St. Marylebone
London W.

$$\frac{\frac{75}{12}}{60}$$

$$\frac{84}{9001}$$

General Equipment

Camera. < Need camera to photograph birds, flowers, etc at close range.
" " " " landscapes.
" " " " animals in motion.

Tripod - metal. Ought to have more than one.

Films. - Must be in metal cases.

Vest pocket Camera $35.00

Typewriter + Accessories. (Book to learn.

Fire arms.

Heavy rifle for walrus + bear. - Winchester .401 Automatic
" .405 Repeater
" .4082 Kills quick, old model.

Light rifle for all ~~tips~~ - 32 or .3030.

Small calibre - .22 { Savage? Winchester? Remington

Revolver. - Colt's Automatic for close range work is likely to jam.

Field Glasses.

Have written ~~to~~ E. Leitz Co., 632-34 Commerce St., San Francisco.
C. P. Goerz American Optical Co., 319 E. E. 34th St. N. Y.

Electric bullseye with batteries + extra batteries

Blackboard with chalk

Cross-ruled pads.

Office supplies

Miner's lamps - carbide.

Carbon paper.

Protractor ✓

Scales - ~~Arch~~ or Eng.? Flat or triang.? Metal or Bo~~xwood~~?

4 Straight edges what kind ✓

Folding Drawing board? T-~~square~~

Triangles - what ~~kind~~

Curves - what ~~kind~~

Drawing paper - what kind

Profile paper. what kind

Portfolio 17 x 22 ? ✓

Thumb tacks ✓

Cross section paper ✓

Erasing rubber ✓

Cleaning " ✓

India Inks. ✓

Watercolors + brushes ✓

supplies

General Library.

Webster's Dictionary
Roberts Animal Stories
Steward Edward White's Northern Stories
Bomp's A Tenderfoot with Peary
Bible
Emerson's Essays
Hamilton Wright Mabie
David Grayson
Addison (for style)

Clothing & Accessories.

Shoes - 4 pairs Heavy boots.
Chrome Leather or Elkskin.
2 pairs Light or shoes.
2 pairs warm indoor shoes. sheepskinlined.
1 pair Rubber Boots ?
Cobbler's kit. Insoles.
Calks
Hob-nails.
Repair outfit

Hose - Heavy wool - knitted - how many pair?
Lighter pairs.
Supporters.

Underwear - 6 extra ~~pairs~~ suits. white
Union { 3 pair heavy-
3 pair lighter. white silk (?)

Shirts - 4 flannel shirts
4 lighter shirts.
2 jersey
3 heavy sweaters. < 2 wackbands
1 low collar turn up.
1 " sweater vest.

Coats -
3 Mackinaws.
1 Heavy Overcoat. Buy Bartells?
3 Extra-old coats.

Trousers.
2 pairs khaki
2 pairs fustian

Hats.
4 old felts
4 caps. stocking
2 fur caps.
2 straw hats

587 792. 68-69.
588

Books for Paleontology + Stratigraphy

Carboniferous.

Salter — Account of the Arctic Carboniferous fossils
J. W. Salter. In "Last of the Arctic voyages" by Sir Edw. Belcher, C.B. Vol. II

Salter — Textbook of Paleontology.
Karl A. Von. Zittel. Eastman's Translation
Macmillan Co. Vol 1 + 2

N.S. — Etheridge, R.
Quart. Jour. Geol. Soc. of London Vol. XXXIV.
(Nares Exp. - Geol)

Salter — Feilden H. W. + DeRance C. E. Geology of the coasts of the Arctic Lands; Quart. Jour. Geol. Soc. London 1878, vol 34.

Salter — Haughton, Samuel - On the geology of the Parry Islands + neighboring lands. Jour. Royal Dublin Soc. Vol 1, 1857; vol 3, 1860

Palache, Charles, Geol. + Paleon; Harriman Alaska Expedition

Walcott. Monograph 51 pt 1 + 2.
Smithsonian reports.

Salter — Hovey - Cape York Meteorites.

Salter — B. K. Emerson. Rocks + Minerals from N. Greenland + Frobisher Bay. Amer. Geol. Vol. 35.

Raw, J. P. J. Geol. Recon. on Disco Island + Nugssuak Penin.

Nathorst, A. G. Cont. to Carb. Flora of N. E. Greenland Meddelelser om Grönland vol. 43, 47, 28, 45, 34, 29.

Geology
Paleontology & Stratigraphy

Information
Impression was for delicate fossils.
Common dental was.
See D. V. Leathers.

Polariscope - Simple to determine orientation of ice-crystals x (Low power possible not Tues.)
Books. Selenite wedge for delicate [illegible] clout - fast way
List Grabau & Shimer North American Index Fossils Vol I & II
~~New Era~~ A. G. Seiler & Co. New York.

1 Steel Tape. Amer. Standard 100 ft 12
200 ft. 24
Tapes - Several cloth tapes.
Large quantities of paper.

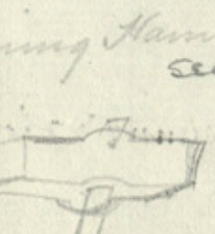
Supplies
~~Reading Glasses~~
1 - 16312 B+L. - .60
Sup. 1 - 16322 " - 2.50

Note-books -
~~Note again to Yale~~
Sacks - Many. 3000 for 4800.
Label Pads.

2 Geological Hammers.

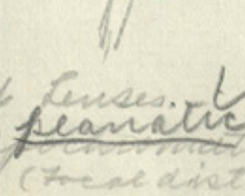
Bausch + Lomb 14986
400 gram - 75¢
800 gram. 1.25¢.
B+L. 14988
1 - 600 gr. - 75¢

2 Geological Hammers



B+L. 14984
1 - 600 gr. - .40
1 - 430 gr. .45
1 - 340 gr. .70
1 - 340 gr. .50
.90

2 Trimming Hammers.
See



Pocket Lenses.
2 ~~Planatic~~ Hastings B+L.
(Focal distance of about one inch) Triplet Magnifiers no. 174 - 1 } 7 each.
172 - 2
170 - 1
Picks + chisels. Bausch + Lomb 13244
8, 10, 12, 18, 25, one each 2 @ 12 and 2 @ 18.

Colored Pencils (Best Faber) — 1.25

Knapsacks — E. B. Mathews Johns Hopkins — 4.00

Newton & Windsor — 2.50

Colored Inks (India

Pens. Crowquill

Straight Edges

2 Pocket Alidades – different sizes — 4.00

Small Plane Table — 7.00

Abbey Hand Level — 30.00

Army sketching Case with Tripod — 31.00

Surveyors Rolls paper — 12.00

2.00

~~Lincoln~~

3 Brunton Pocket Compass with tripod + attachment

(2 tripods) 1 ordinary top compass

Improved ~~with~~ sign cover + slots for attachment to tripod head. Ball + socket tripod head. Tubular Exten. Tripod.

~~Sling~~ Leather case for all with sling strap

Leather case with belt loop. — $85

Belt. — 2.00

Barometer ~~Below~~ for more than 5000 feet — $45

~~1 Good Pocket~~ 1 Clinometer or Slope Level — 8

1 Good Pocket Compass with Clinometer

Rathers have 2 Buntons and 1 geological dial compass Kroedel $30.

1 Pocket Spectroscope (?) 3 extra for cinders graduated to ~~prop~~ 75° — 15.00

Tripod — 6.00

Bags for rock specimens. (Marburg Bros. Branch ~~Co.~~ of Baltimore) Amer Tobacco Co.

various sizes. 2 oz bags best.

2 Gurley's Manuals — Last Edition

Labels.

Paper bags 3 lb. —

Hobnails. (extra) Calks with Appliance for fastening to shoes

Cobblers Kit.

Sewing Kit.

Package of eyelets. Shoestrings

Paper Vets.

Dental Wax.

Scratch numbers on specimen.

~~Nedungold, Otto~~

Bull. Geol. Soc. of Amer. Vol. 19.
Granville-Hastings Uncon
N. J. Miller + Knight, C. W.

Listed

Smithsonian Miscellaneous Publications
Nos. 1940, 1810, 1811, 1805, 1934.

Bather, F. A. – Preparation + Preservation of Fossils
"The Museum's Journal, Vol. VIII, Sept. 1908

Graban, A. W. – How to Collect + Prepare
Fossil Invertebrates. Bull. Buffalo Soc. of
Natural Sciences. Vol VI, pp. 107-117. 1899.

Listed

Schuchert, Chas. Directions for Collecting and
Preparing Fossils. Smithsonian Inst.
U. S. Nat. Mus. Bull No. 39 Part K 1895

Information

Geology.
Mineralogy

Supplies.

Books.

Small hammers – Take from coll.
Anvils – B + L. 12164 75mm – 2 Co
~~Mortar~~ + Pestle
Magnets. — Uni supplies
Alcohol burner
Forceps (platinum tipped)
Test tubes
Hard glass tubes
Streak plate
Test tube holder.
Pincers.
Rubber Tubing.

Study:
Look up formation of kettle-holes.

Description Meteorology — Willis L. Moore
D. Appleton & Co.
Meteorology — Thomas Russell
MacMillan & Co.
Meteorology — Willis Isbister Milham
The Macmillan Co.

Evidences for glaciation
Topographic, —
Marginal channels!
Formation of drumlins
Which of two theories
" " " " Destruction
or Construction.
What causes spur erosion?

Geol. Prof. Paper 64
The Yakutat Bay Region, Alaska. By R. S. Tarr.
(From Most Valuable.)

Gilbert's vol. on Glaciers
Harriman Alaska Expedition.

In Mts. reg. partly cov. by ice sheet gen. level of ice sheet serves as local base-level for all stream erosion. Rich

Important: Rock Glaciers — Jour. Geol. Vol. 16, 1910 No. 4
Dr. R. Capps Jr.

Geology.

Physiography, Glaciology, Structure.

Books. & Supplies.

~~Hess - Die Gletsche (See Library)~~

~~W.H. Hobbs - Glaciers, Characteristics of Existing~~
~~" - Earth Features & Their Meaning~~ } the Macmillan Co. New York

~~Spencer, A.H. - The Glaciers of the Canadian Rockies and Selkirks. - Smithsonian Contributions to Knowledge Vol 34.~~

J.Y. Buchanan - Scottish Geog. Mag. Vol. 28 Apr. 1912 pp. 168-189 - See note.

Mügge - Neues Jahrbuch für Mineralogie 1895 - Band 2 pp 211 et seq. "On the structure of Greenland Inland Ice and its significance for the theory of Glacial Movement.

Ogilvie, A.G. - Geog. Jour. Sept. 1912 pp 280-294 Observations on Theories of Structure and Movement of Glaciers of Alpine Type.

~~Size of crystals of ice in glaciers~~ by Rich's method

~~Bascell - Climate & Terrestrial Deposits - J.J.G. Vol 16 Relation between pp. 189/190 255/296, 363-364 (for statement of Arctic types of Physiog.~~
1908

~~? Russell, Glaciers of N. America~~

? Chamberlain - Journal of Geol. Vol 3

Form of Accession card.

No. —
Locality.
Collector
Time.
Notes.

Ornithological

Information.

Supplies.

Field Glasses. ✓

Bird Gun. ✓

Daily Records. < Books / Smith

Dissecting set.

Summary Records. - Smith. ✓

Boxes
Cotton } Collecting aggs. ✓
Instruments

~~Data~~ Pads. (Accession Pads.) ✓

Botany Books.

Bartholomew's Atlas of Zoogeography in Room 316.

The Ecological Relations of Stable + Migratory Plant Formations.
by C. B. Crampton M. B., C. M.
of H. M. Geol. Surv.
reprtd from Scottish Botan. Rev.
Jan. Apr. Jul. 1912
Vol I. pp. 1-16; 17-39; -40-61

Oecology of Plants
An Introduction to the Study of Plant-Communities by Eug Warming
Prof. of Botany in the Univ. of Copenhagen.
English translation by Percy Groom & Isaac Bayley Balfour,
At the Clarendon Press., Oxford, England.

Conditions of Life In the Sea,
by James Johnstone
Cambridge Univ Press.

Michigan Biol Sur,
Lans. Mich.

Explor. in No. Can. & adj part of
Br. & Alaska 1904
Jas White Geographer.

Dr. Simmons
Lund Univ. Lund Sweden

Botany + Zoology.

Information

Supplies.

Compresses. —

~~Vasculum~~ The Way — Schenck Co.
N. York

Portable — 16 X 10 - 2.50 N.S. 991. with Handle.
~~Stationary~~ — 20 X 12 - 3.0
N.S. 1001 2.00 no handles.

Stationary.
NS 997 20 X 10 $4.00

Forceps.
3 NS 391. 40¢
2 N.S. 410 25¢
2 N.S 397 40¢

Vasculums.

Books.

See Dr. Gleason's Letter.

Andrée - R. of Rs. 16:283

Stadling, Jonas.
Andrée's flight into the unknown
Cent. 55:81-8

North-pole balloon
Sci. Am. S. 41:17057

Greeley, A. W.
Race for the North Pole
Munsey 21:384-98

Jackson, F. G:
Jackson-Harmsworth expedition
Nature 57:40

Experiences in the Arctic Seas.
Sci. Am S. 44:18158

Lerner's polar expedition
Nature 58:397
Science n.s. 8:369

Myer, E. P.
Attempt to reach the North Pole with icebreakers.
Chautauquan 29:284-6

To reach the North Pole by means of "
Nature 58:353
Geog. J. 12:420

Markham, A. H.
North Polar Problem
N. Amer. Review 162:486-96

Capt. Sverdrup's proposed expedition
Outlook 57:957

Wellman, Walter
Arctic Exploration and quest of the North Pole.
R. of Rs. 17:171-8
On the way to the North Pole
Cent. 57:531-7 (F 99)
Wellman expedition
Science n.s. 8:77
R. of Rs. 20:215 (Ag 99)
Outl. 62:927 (26 Ag. 99)
1000 days in the Arctic
Sci. Am. S. 47:19606-7 (10 Je 99)

References.

—Suggestions.—

Lichens of Alaska - by Miss Cummings.

Lichens of Minnesota - by Bruce Fink

Birds of Arctic Regions.

Collett & Nansen

Birds of the Norwegian North Polar Expedition
33 sp.

Pearson - Beyond Petsora Eastward
67 sp.

Stone Report of McIlhenny, Pt. Barrow.
69 sp. Birds Collected at Pt. Barrow.

Index to Auk v 1 to 17 & Nuttall Bull. v 1-8 gives the following under "arctic" - Bubo, Gavia (Colymbus), Falco rusticolus, Picoides, Pipilo

Allen - J. A. 307-310 1910
Review of 3 books on arctic birds
Pearson (see above); Collett & Nansen (see above)
Stone see above

(Kumlein, L.) - Review of. i 109 1880.
Contrib to the Nat Hist of Arc. Amer. 84 sp.
U. S. Nat. Mus. Bull. No 15. pp 69-105

Stejneger L. (Very Important) Review of Palmen's Contr. to the knowledge of the Bird Fauna of the Siberian Coasts of the Arctic Sea.
5: 306-311 1888

Sphalow, H. : 291-292, 1884. Rev. of E. W. Nelson's Birds of Behring Sea & the Arctic Ocean. Criticism of naming of specimen

Rae J. : 283 1892 Canadian Rec. of Sci. 3: 125-136
Notes on Geese, Waders, & Ptarmigan.

Murdoch, Jr 16: 146-155, 1899

Ross's Rosy Gull. - Records & Study
Breeding place probably on island N. of Pt. Barrow.

Ridgway, R.: 188, 1880 Notes on Grus fraticulus
of Brit. Amer. & Upper Yukon, etc. :160 1882
Notes on Black-backed Gull for Herald Is. N. of
Bering St.

Fielden, A.W. :86, 1878
Naves arctic exped. of 1876 brought Knot
nestlings for British Museum.

Merriam, C.H. :312-313, 1885
Eggs of Knot - Early records of Knots eggs
Greely found them at 81° 44 N.
Harting, J.E. :375, 1885
Eggs of Tringa canutus (Knot)
See Merriam 312-13 1885

Concat. Auk :76-81 1884

Nelson Auk :76-81 -1884

Preceding are notes on all ref. given under
Arct. Regions in indexes of Auk (& Nuttall Bulletin)
through 1911 except vol 18, 1901. By courtesy of Miss Sparks
Species of Birds must be looked for by name also.

Supply. References.

Central Scientific Co., (Everything)
345-359 N. Michigan St.,
Chicago, Illinois

Whitall Tatum Company (Glassware)
46-48 Barclay Ave., New York

Taylor Instrument Companies
Rochester, N. Y
(Thermometers, etc.)

Bausch & Lomb Optical Company,
Rochester, N. Y.

Eimer & Amend,
205-211 Third Ave.
New York, N. Y.

W. & L. E. Gurley,
Troy, N. Y.

The Kny-Scheerer Co.,
404-410 W. 27th St.,
New York, N. Y.

Suggestions.

Wall ~~Blackboard~~ 6 X 3 ft.
~~Plenty of Crayon.~~
~~Several Boxes of colored Crayon.~~

Traps,
~~Henry Scherer 75/8601.~~

~~Basins, Trays etc.~~
~~Henry Scherer Catalogue No. 4, pp. 94-5~~

~~Scales.~~

Labels - Heavy Tinsel

~~Lanterns~~

Lamps
Miners Carbide?

~~Bull's eye 75/566~~
~~Hunting Lamp 75/577~~

Geology Bags ✓

~~Plenty of Cross ruled Pads.~~
~~Cardboard Paper gloves.~~
~~Plenty of eyelets & shoe-strings~~
~~Paper Vests.~~
~~Flasks & Bottles.~~
~~Bottles for bringing back fungi, etc.~~

~~Goggles.~~
~~Set of Sieves (?)~~ Eimer & Amend.
~~Homeopathic Vials - 7541. Central Scientific Co. Chicago, Ill.~~
~~page 85 of cat.~~
~~Iron Lamp forms - 720. 4152 Clamp for [illegible]~~
(over)

~~Crystallizing Dishes or Petridishes~~
~~C. S. Co. Chicago 4845~~

~~Cytological Graduates.~~
~~C. S. Co. Chi. 5091~~
~~Whitall Tatum Co. p. 162~~

~~Glass Pots.~~
~~Whitall Tatum Co. p. 28-29~~

~~Seamless Tin Boxes.~~
~~Whitall T. & Co. p. 195~~

~~Asbestos Pads.~~

Bell Glasses.

~~Gold-washing Pans. Batten~~
~~Eimer & Amend 5696~~

~~Pipettes.~~

~~Sal Prunes~~

Platinum Wires.

~~Labrador, the Country & the People.~~
~~by W. T. Grenfell & Others.~~
~~The MacMillan Co. Ny.~~

Analytical Geometry -

Ice Movement.

~~Soldering outfit~~

~~Send for Vol. 2 Journal of Geology, Journal of Geology, Chamberlain, Title 3 4.~~
~~Importance~~

Geodetic work in Spitzberger
Sci. Am. S. 48: 19727-8 (5 Ag 99)

Cruise on the east of Spitzbergen
Geog. J. 11: 365-70

Peary, R. E.
Moving on the North Pole
McCl. 12: 417-26 (Mr 99)

Polaris, Cassiopeia + other bears.
St. N. 26; 295-9 (J 99)

Peary expedition
Outlook 63: 143 (16 S 99)

Arctic work of R. E. Peary
Nature 57: 132

Barton, G. H.
Lieut. Peary's expedition.
Sci. N.S. 5: 308+10

Rabot, Charles
Explorations in 1894-5
Sci. Amer. S. 4: 16811

Stein, R
Polar Exploration
Pop. Sci. Mo. 49: 321-7
R. R. 14: 226-7

Nansen F.
Address to the Royal Geographical Society
Nature 55; 352-3

+ others
Why should Arctic Exploration be continued
R. of Rs 17: 179-82

Some results of the Norwegian Arctic Expedition
Geog. Jour. 9: 473-505

Nansen's achievement compared with those of previous explorers.
Harper's M. 41: 1150-1

Nielsen, Y.
Sverdrup's polar expedition
Living Age 219: 917-20

Nordenskjöld, A. E.
Studies among the ice-drift of the Polar Seas
Geog. J. 11: 492-7

Swedish expedition of 1898
Science n. s. 7: 59
Geog. J. 12: 385-6
Nature 57: 163

Arctic Explorations and explorers
J. Ed. 43: 176

Objects + results of Polar research:
Pop. Sci. Mo. 51: 635-41

Recent Science
Liv. Age 212: 718-26

Explorations in the 19th Century
Harpers 97: 897: 901

Explorations & ethics
Dial 23: 323-5.

Books.

6a Engler & Prantl, Pflanzenfamelien Vol. I parts 1* & 1**

This is the best illustrated work including representatives of all the fungi and myxomycetes up to the time of publication. The work is somewhat rare now but it may be secured from Stechert & Co., N. Y. Will cost $18 to $20.

7a Genera of Fungi by F. E. Clements, published by H. W. Wilson Co., Minneapolis.

This work is very valuable for the taxonomist in that it is a translation of the systematic keys on fungi as found in Saccardo's "Sylloge Fungorum." $2.00.

8a Moulds, Mildews & Mushrooms, by L. M. Underwood. Published by Henry Holt & Co., 1899.

A guide to the systematic study of the Fungi and Mycetozoa and their literature. $1.50 (?)

9a Mushrooms, Edible, Poisonous, etc., G. F. Atkinson. Published by Andrus & Church, Ithaca, N. Y. $3.00.

10a Mushrooms, Edible and otherwise, by M. E. Hard. Distributed by Ohio Library Co., $4.50. Columbus, Ohio.

11a Vol. X. Mushrooms, of Nature Study Library. Published by Doubleday, Page & Company. 1904.

Popular guide to Mushroom study. Includes some other common fungi.

ZOOLOGY AND ENTOMOLOGY.

Kny Scheerer Co. Entomological Supplies, 3rd edition.

2 NS/325 Forceps nets @ $2.50..... 5.00

2 NS/331 " " @ 2.50..... 5.00

Material for net bags.

3 yds. NS/271 @ 1.40..... 4.20

3 " NS/277 @ 1.00..... 3.00

3 " NS/289 @ 1.00..... 3.00

6 " NS/295 @ .60..... 3.60

24 " NS/ 30 @ .50.....12.00

Dip nets.

3 NS/307C @ .75..... 2.25

3 NS/313 @ .75..... 2.25

Collecting nets.

6 NS/211 Indestructable silk bags @ 2.00 .....12.00

6 NS/211 Close-meshed bobbinet bags @1.25 ..... 7.50

Dredge

6 NS/157 @ 2.00 .....12.00

Spades (trowels)

2 NS/457 @ 2.00 ..... 4.00

8 NS/463 @ .50 ..... 4.00

Stretching boards

NS/2783 (various sizes) .....

2 #1 @ 40¢ .... .80
2 #3 @ 55¢ 1.10
2 #5 @ 75¢ 1.50
2 #7 @ 85¢ 1.70

..... 5.10

$64.90

2 NS/2789 #2 @ 60¢ 1.20

NS/2819 (Spreading tape) 1 1/2 in. per roll. .40

Potmend 6 cans @ 1.00 ..... 6.00

Collecting pails

2 NS/97 @ 2.00 ..... 4.00

Collecting belt

1 NS/101 ..... 2.00

Collecting bag

2 NS/115 @ 2.25 ..... 4.50

Specimen dippers

3 NS/535 @ 90¢ 2.70

Insect pins (Bausch & Lomb)

15924 - 500 each, size 1 to 6 ..... 6.00

Pinning forceps (B & L)

15928 ..... 2.50

Sheet cork (Spencer Lens Co. Catalog 1910)

1950 ..... 10 sheets 1.75

3 Tripods for alc. lamps (Bausch & Lomb Cat. 7375)

#17070 ..... .60

Wire gauze (B & L)

#17342, 17344 and 17346 ..... 5.00

Asbestos board (B & L) 12188 ..... 3.00

Alcohol lamps (B & L)

15244 2 @ 50¢ 1.00
15246 2 @ 60¢ 1.20
15240 2 @ 20¢ ..... .40

Homeopathic vials (B & L #17226)

#1 200 @ .90 ..... 1.80
#3 400 @ 1.30 ..... 5.20
#6 400 @ 2.50 ..... 10.00
#8 400 @ 3.10 ..... 12.40

$71.65

Lamp wicking (15,266) B. & L. 20 bundles @ 5¢	1.00
Support apparatus B. & L. 16,744	6.00
2 Drawing boards, Bristol board of best quality for drawing, thumb tacks (estimated).....	5.00
Abbe Camera Lucida, Spencer Lens Co., New #500 ...	20.00
Stage Micrometer #400	3.50
Eye piece Micrometer #420	5.00
Centrifuge (B. & L.) #13204	10.00
Hones, whetrocks, etc. for sharpening knives, razors, etc. (estimated).....	2.00
Automatic water still (16,640) B. & L.	13.50
40 Watch glasses (B. & L.) 17238	2.00
20 Syracuse watch glasses	1.30
Rubber bands, clips, etc., (estimated)	
Microscopical labels (B. & L.) 15206, 4 books	1.20
Camels hair brushes	5.00
Adhesive tape	1.00
Microtome and accessories (estimated).....	75.00
Paraffine bath (Spencer Lens Co.) 4460	22.00
Paraffine (S. L. Co.) 52°-57° C. 6 cakes @ 25¢ ...	1.50
" " 37°-43° C. 4 cakes @ 25¢ ...	1.00
Canada balsam (S. L. Co.) in 20 cc. collapsible tubes. 50 tubes @ 20¢	10.00
Glycerine jelly (S. L. Co.)	2.00
Mayers albumen fixative	1.20
Marine glue	1.20
Containers for microscopical slides NS/4241 (Kny-Scheerer Co.) holding 100 slides 10 @ $1.00	10.00

BP

List of Botany Supplies

Fran Kuy Scheerer

Vasculums

NS/5001

1 small size at 50¢	$ .50
2 Large size at 1.00	2.00
1 NS/5013 and strap	2.95
Plant Press	
2 NS/5019 20 X 12 at 2.50	5.00
1 NS/5043 20 in. by 12	3.50
2 NS/ 5031 at 2.00	4.00
Botanical Press	
NS/ 5049	5.00
4 Small size 9 X 12 at 1.25	5.00
2 Large size 12 X 19 at $2.50	5.00
Tape Measures	
2 0/2437@50¢	1.00
2 0/2443 at 40¢	.80
Botany Paper	
NS/5055 Corrugated 1 Roll	5.00
NS/5097 Genus covers 100	1.20
NS/ 5103 Wax Paper, 1 ream	1.85
NS/5121 Felt Paper, 10 quires at 50¢	5.00
NS/5079 Mounting Paper 2 reams	4.00
Adhesive tape	
NS/5139 8 spools at 25¢	2.00
Collection Pick	
2 NS 5205 at 1.50	3.00
Mailing Boxes	
NS/3247 2 dz. each 1/4 oz, 1/2 oz, 1 oz, 2 oz, 3 oz, 4 oz.	2.60

NS/3253
3 doz. each No's 1-14 Inclusive 12.24

Drying Oven

NS/2831 10 X 12 in. 8.50

Pocket Scissors

2 NS/2643 at .60 1.20

Newspaper Folders) Will get these 3.00
cut 11 X 16)
Quadrat Tapes) here or at New York

From Bausch & Lomb

B+L.

No. 12647
100 sheets Drying paper at 2 ¢ 2.00

Balances & weights

Eimer & Amend

E+A.

No. 2144 - with Troy weights 8.00

2201 - 2 sets .01 up to 1. gr. at 50¢ 1.00

2204 - 2 sets 1. gr. up to 200 at 1.50 3.00

One Thousand Assorted Manila Envelopes

of Tough and Durable Paper 5.00 (?)

Two Hundred Tin Cans, preferably square,

with Tight-fitting covers, to hold 100 gr.soil 20.00 (?) Am. Can Co. Cover to be pressed down

Picric acid 250 gr.

Corrosive sublimate 2000 gr.

Acetic acid (Glacial) 3 lb

Formaldehyde 2000 gr.

From Central Scientific Co.,

C.S.

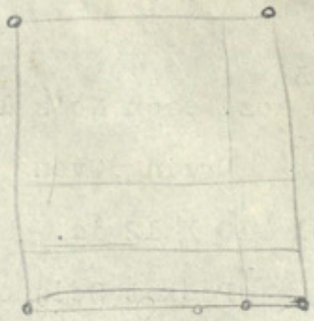
345-359 West Michigan St.,

Chicago, Illinois

Soil Thermometers

No. 9159 One Max. depth 30 in. at 7.75
" " " 20 " at 6.65 14.40

Henry J. Green & Co,
Brooklyn.



Quoted + Bought in full

Geological Equipment.

Note: I think, unless there is some particular reason for immediate purchase, I ought to see most of these articles when bought.

Bausch & Lomb, Rochester, N. Y.

B.L.

Hammers

No. 14984

One 60 gr.		$ .40
Two 210 gr.	at 50¢	1.00
Two 450 gr.	at 70¢	1.40
		2.80

No. 14986

One 400 gr.	.75
One 800 gr.	1.25
	2.00

Ex.

No. 14988

One 600 gr.	.75

✓1203 Extra handles, assorted.

Pocket Lenses.

Hastings Aplanatic Triplets

Two No. 174)		
" " 172)	at 7.00	42.00
" " 170)		

Chisels

No. 13244

Two 8 mm.	at .20	.40	
" 12 mm.	at .35	.70	
" 18 mm.	at .50	1.00	
One 25 mm.		.85	2.95

Reading Glasses.

Two No. 16312	at 60¢	1.20
" " 16322	at 2.50	5.00
		6.20

Mineralogy

Everything may be obtained from Bausch & Lomb.

Rubber Tubing		
No. 16440		
10 ft. 6 mm. at .08	.80	
10 ft. 8 mm. at .09	.90	
10 ft. 12 mm. at .20	2.00	$ 3.70
Funnel Stand		
No. 16786 Two at 75¢		1.50
Streak Plates		
No. 16010 Two at 25¢		.50
Blowpipes		
No. 12614 Two at 90¢		1.80
Soft Glass Tubing		
No. 14908 Twenty feet in 1 m. lengths size 3		
Hard Glass Tubing		
No. 14914 Ten feet in 2 ft. lengths 8 mm. outside		
Mortar and Pestle		
No. 15778		2.00
No. 15786 - 150 mm.		.90
Test Tubes		
16918 - 100 - 150 X 18 mm.		2.75
100 - 120 X 15 mm.		2.00
Forceps		
No. 16070 (Platinum-tipped)		
Magnets		
No. 15564 Two 100 mm. at 15¢		.30
Anvil		
12164 One 75 mm.		2.00
Alcohol burner		
13004 Small size		7.50
Alcohol lamp		
15236 Two at 85¢		1.70
Test tube racks		
16838 Two at 50¢		1.00
Test tube forceps		
13316 One large 20¢		
" small 15¢		.35
Watch Glasses		
17252 Ten		.50

Quoted and Ordered in full

✓Charcoal
12634 - 30 sticks at 5¢ 1.50

✓Triangular Files
14112 Two 200 mm. at 35¢ .70

✓Filter Paper
14164 200-110 mm. at 25¢ per C. .50
200-150 " at 40¢ " C. .80 1.30

✓Funnels
14378 Two 75 mm at 14¢ .28
Two 50 mm at 10¢ .20
Two100 mm at 18¢ .36 .84

✓Litmus Paper
16890 Neutral 6 vials at 10¢ .60

✓Beakers
12506 Two Nests at 3.03 6.06

✓Flasks
14235 5 - 200 cc at 20¢ 1.00
5 - 400 cc at 30¢ 1.50

14252 2 - 100 cc at 12¢ .24
2 - 150 cc at 15¢ .30 3.04

✓Burner Tips

13146 Two at 10¢ .20
13148 Three at 15¢ .45 .65

Quoted and ordered in error.

Chemical Reagents.

Eimer & Amend

C. P.

All to be furnished in ~~glass~~ suitable containers for ocean transportation.

- HCl --- 2 li.
- HNO_3 --- 1/2 li.
- H_2SO_4 --- 1/2 li.
- NH_4OH ---2 li.
- $Na_2B_2O_7$ ---500 grams
- Na_2CO_3 ---1000 gr.
- $AgNO_3$ --- 30 gr.
- CaF_2 ---100 gr.
- K_4FeCN_6 ---30 gr.
- $K_6Fe_2(CN)_{12}$ --- 30 gr.
- KNO_3 --- 100 gr.
- NH_4Cl --- 250 gr.
- $HKSO_4$ ---100 gr.
- S ---250 gr.
- Zn ---500 gr.
- $SnCl_2$ ---30 gr.
- $CO(NO_3)_2$ ---100 gr.
- $(NH_4)_2MO_4$ --- 30 gr.
- $HNa\ NH_4PO_4 \cdot 4H_2O$ --- 250 gr.
- H_2O_2 --- 250 gr.
- $(NH_4)_2CO_3$ --- 50 gr.
- $(NH_4)_2C_2O_4$ --- 250 gr.
- $Ba(OH)_2$ ---250 gr.
- $BaCl_2$ ---250 gr.
- 6 feet Mg ribbon
- 2 Thin strips of copper.

3 Quoted and ordered in full

Soil Sample Jars
No. 9137 Ten Dozen at 55¢ 5.50

Soil Sampling Tubes
NO.9155 Two at 55¢ 1.10

From Whitall Tatum Co.,
46-48 Barclay St., New York

One gross screw-capped jars, with metal screw caps, cork-lined, 2 oz. 1 15/32 X 1 15/32 X 3 3/8 in. 10.80

Six dozen do. 8 oz. 2 1/16 X 2 1/16 X 5 1/2 in. at 22. 11.00

From Eimer & Amend Co.,
205-211 Third Ave., New York, N.Y.

No. 2393

3 doz. 1 oz. at $1.20	3.60
2 doz. 2 oz. at 1.40	2.80
4 doz. 4 oz. at 1.65	6.60
2 doz. 8 oz. at 2.25	4.50
1 doz. 16 oz. at 3.00	3.00

Assortment of wide-mouthed homeopathic vials with corks to fit.

Ornithology Supplies.

Quoted and Ordered on field

Blank Records

Daily _____ 3.00

Monthly Summaries _____ 2.00

5.00

Will procure the records at Illinois

Cotton for egg-packing N/N/S _____ 2.00

Schmidt boxes & cases for egg-packing N/N/S 25.00

From Kny-Scheerer, N. Y.

Egg-blowers with bulb

N/S.

3 N S/6019 Metal at 25¢ .75

2 N S/ Double bulb at $1.00 2.00

2.75

Embryo-hooks

5 N S/6013 at 20¢ 1.00

Egg-drills

N S/6007

2 each Sizes 1, 2, 3, 4, 5 3.30

Syringes for rinsing eggs

N S/6001

3/4 oz ---------- 1.60

1-3/4 oz ---------- 2.00

5 oz ---------- 3.00 6.60

Two Fowling guns

10 gauge shot gun

Preferably Remington

Estimated @ 25.00 50.00.

~~25.00~~

MAC is considering with E & J

Field glasses

1 Addi. pair Leitz Prism binoculars No.8-8X with case and straps

List price $62.00

Cost price 37.20

Ordered

Laboratory supplies.

Diary Records

Daily ---------- 3.00

Monthly Summaries ---------- 2.00

5.00

Will provide the records at Illinois

Poultry for egg-packing R.V.S. ---------- 2.00

Equipment boxes & cases for egg-packing R.V.S. 25.00

From Fur-Separator, E. V.

Egg-tolerers with bulb

3 x 5 Rolf Metal at 25¢ .75

2 x 5 Double bulb at $1.00 2.00

2.75

4 Baby o-hooks

6 x 8 Rolf at 20¢ 1.00

Egg-drills

3 x 5 Rolf

2 each Sizes 1, 2, 3, 4, 5 3.20

Syringes for rinsing eggs

3 x 5 Rolf

3/4 oz ---------- 1.60
1-3/4 oz ---------- 2.00
5 oz ----------3.00 6.60

Bore Fowling guns

10 gauge shot gun

Preferably Remington

Estimated @ 25.00 50.00

Field glasses

1 Adal. pair Leitz Prism binoculars No. 8-8X with case and straps
List price $82.00
Cost price 57.20

From Bausch & Lomb. Quoted and ordered for Trail

B & L.

✓ Calipers for bird measurement

✓ Two 15682 Steel at $1.50 $3.00

✓ Four 15688 Steel at 50¢ 2.00

Shall wait to get equipment for preserving bird-skins until I get to New York.

From Ruseck & Lomb.

Calipers for bird measurement

Two 15682 Steel at $1.50 $3.00

Four 15682 Steel at 50¢ 2.00

Shall wait to get equipment for preserving bird-skins until I get to New York.

1 Order at Yale Coop.
Two 1½ lb. geol. hammers.
Two 2 " " "
Two cloth collecting bags.

2 Order at Pollock's Hardware Store
Four assorted cold chisels, stonecutters.
One eight-pound sledge + two extra handles. Wedge-shaped with edge ∥ to handle.

3 Order.
2000 - 5 lb. } Paper bags of tough
5000 - 3 lb. } durabel paper.

4 Order. - Label Pads.

5 Order
One Thousand Assorted Manila Envelopes of Tough + Durable Paper.

6 Order Two Hundred Tin Cans preferably square with tight fitting covers, to hold 100 gr. soil.

7. Order 10 platinum wires mounted in glass tubes

8. Order 3 gold washing pans.

9. 1 gross glass slides 26 x 46 mm.
1 oz circles for petrographic work.
8 oz Canada balsam.
1 lb. 120 carborundum.
1 lb. flour "
4 oz. 60 min "

Done

Done

Done

Done

Either & Amend

plate glass.
24 glass mounts. very thick 1½ x 1½
1 piece thin sheet iron

Ordered 20/3

W. & L. E. Gurley, Troy, N. Y.

Tape Lines

Steel Tapes, Amer. Standard

One 100 ft. No. 798 at 12.80
One 200 ft. No. 799 at 24.00

Two Pocket Steel Tapes
No. 877 at 1.20 2.40
39.20

Boxwood Scales.

Two No. 1655 - 6 in.60¢ 1.20
Two No.1656-12 in.1.00 2.00

Straight Edges

Two No.1820-18 in. 90¢ 1.80

Pocket Rules

Two No. 1742 at 50¢ 1.00

Triangles

One 2024 at .40
One 2030 at 1.00
One 2038 at .55
One 2046 at 1.65 3.60

Curves

No. 2182

One each No's. 3,4, and 13 at 60¢ 1.80

Protractor

No. 1532 2.75

Cross Section Paper

No.2622 (or equivalent)

20 yds.at 20¢ 4.00

Profile Paper

No.2586

4 yds. at 60¢ 2.40

Thumb Tacks

No.2681

2 gr. at 1.50 3.00

Ordered

W. & L. E. Gurley, Troy, N. Y.

Tape Lines

Steel Tapes, Amer. Standard

One 100 ft. No. 799 at 12.80
One 200 ft. No. 799 at 24.00

Two Pocket Steel Tapes
No. 877 at 1.20 2.40
39.20

Boxwood Scales:

Two No. 1655 - 6 in. 60¢ 1.20
Two No. 1656-12 in. 1.00 2.00

Straight Edges

Two No. 1820-18 in. 90¢ 1.80

Pocket Rules

Two No. 1742 at 50¢ 1.00

Triangles

One 2024 at .40
One 2030 at 1.00
One 2038 at .55
One 2046 at 1.65 3.60

Curves

No. 2182

One each No's. 3,4, and 13 at 60¢ 1.80

Protractor

No. 1532 2.75

Cross Section Paper

No.2622 (or equivalent)

20 yds.at 20¢ 4.00

Profile Paper

No.2586

4 yds. at 60¢ 2.40

Thumb Tacks

No.2681

2 gr. at 1.50 3.00

Erasing Rubbers

No.2852 Twelve at $1.00 per doz.	1.00
No.2859 Six at 10¢	.60
No.2896 Four at 30¢ (sponge rubber)	1.20

Assorted Rubber Bands

4 boxes No.2907 at 1.25	5.00

Mucilage

No.2920 (Tarrine) 2 pts.	1.00
No.2916 12 oz.	.50

Ink.

Two No.2926 (Higgins Waterproof 8 oz.)	4.00
No.2930 to 2940, Inclusive (Assorted)	2.75

Water Colors.

No.3010 Japanned Box		1.00
No.2990 (colors) No's 18,28,35,36,43, at 25¢		1.25
No.2992 (colors) No's 47,49,52,55,58, at 45¢		2.25
No.3030 Camels Hair in Tin		
Three No. 1 at .06	18	
Three No. 2 at .08	24	
Three No. 3 at .08	24	
Three No. 4 at .10	30	
	98	
Three No.3040, No. 3 at 35¢		1.05

Pencils.

Lead

No. 2751 - Assorted 1 gross	15.00
No.2768 - box	.60

Colored

Two No.2791 (Faber's wax)	3.00

Pens.

No.2800 (Gillotts Mapping) 1 doz.	.60
No.2801 " (Lithographic) 1 doz.	.60
No.2802 " (Crow Quill) 1 doz.	.60
No.2807 " Mapping & Writing No.404 1 gr.	1.50

Erasing Rubbers

No.2852 Twelve at $1.00 per doz. 1.00
No.2859 Six at 10¢ .60
No.2895 Four at 30¢ (sponge rubber) 1.20

Assorted Rubber Bands

4 boxes No.2907 at 1.25 5.00

Mucilage

No.2920 (Tarrine) 2 pts. 1.00
No.2916 12 oz. .60

Ink.

Two No.2926 (Higgins Waterproof 8 oz.) 4.00

No.2930 to 2940, Inclusive (Assorted) 2.75

Water Colors.

No.3010 Japanned Box 1.00
No.2990 (colors) No's 18,28,35,36,45, at 25¢ 1.25
No.2992 (colors) No's 47,49,52,55,58, at 45¢ 2.25
No.3030 Camels Hair in Tin
Three No. 1 at .06 18
Three No. 2 at .08 24
Three No. 3 at .08 24
Three No. 4 at .10 30
98

Three No.3040, No. 3 at 35¢ 1.05

Pencils.

Lead

No. 2751 - Assorted 1 gross 12.00
No.2763 - box .60

Colored

Two No.2791 (Faber's wax) 3.00

Pens.

No.2800 (Gillotts Mapping) 1 doz. .60
No.2801 " (Lithographic) 1 doz. .60
No.2802 " (Crow Quill) 1 doz. .60
No.2807 " Mapping & Writing
No.404 1 gr. 1.50

Pocket Alidades.

590 A. 6 in. 7.50
590 B. extra sights 3.25

Plane Table

No. 586 with extension legs to tripod and waterproof case 36.00

Army Sketching Case (complete) No. 594 30.00

One dozen rolls extra tracing paper put in oiled paper at 10¢ a roll 1.20

Two of Gurley's Manuals,
~~Brunton Compass (Ainsworth)~~ ~~35.00~~ All ordered
with tripod and accessories; all improvements.
Tubular extension tripod. Leather case for all.
~~Leather case with belt loop.~~

Twenty rolls extra ~~paper~~ mounted drawing paper for plane table at 10¢ 2.00

Pocket compass No. 3166 2.50

Barometer, No. 3350 45.00

Clinometer, No. 3284 8.00

Dial Compass

No. 35 hour circle for 79 deg. 15 30.00

3 extra hr. circles at 5.00 for 78 deg., 80 deg., 81 deg. 15.00

Tripod 6.00

Hand Level, No. 646 13.50

397.40

Pocket Alidades.

590 A. 8 in.	7.50
590 B. extra sights	3.25

Plane Table

No. 586 with extension legs to tripod and waterproof case	36.00
Army Sketching Case (complete) No. 594	30.00
One dozen rolls extra tracing paper put in oiled paper at 10¢ a roll	1.20

Two of Gurley's Manuals.

Brunton Compass (Ainsworth) with tripod and accessories, all improvements. Tubular extension tripod. Leather case for all. Leather case with belt loop.	35.00
Twenty rolls extra paper at 10¢	2.00
Pocket compass No. 3166	2.50
Barometer, No. 3250	45.00
Clinometer, No. 3284	8.00

Dial Compass

No. 35 hour circle for 75 deg. 15.	30.00
3 extra hr. circles at 5.00 for 78 deg., 80 deg., 81 deg.	15.00
Tripod	6.00
Hand Level, No. 446	13.50

The following supplies, I think, can best be bought in the general trade, at retail, or at the places I designated. I estimate prices.

Four assorted cold chisels, preferably stone-cutters, at any hardware store at $1.00 — Let Mac get them at Pollock. — 4.00

1000 2 oz. sacks (cloth) } U.S.
1000 6 oz. sacks (cloth) } G.S.
~~1000~~ 2000 1 lb. sacks (cloth) — ?

Two 1 1/2 lb. geol. hammers)
Two 2 lb. geol. hammers) Yale Coop. — 3.00

2000 - 5 lb.) Paper bags of tough durable
5000 - 3 lb.) paper.
At some supply store — Paper house on Beekman St. Look up No., sample etc. — 10.00

Label Pads

2 Cloth Collecting Bags at 1.50 — Yale Coop. — 3.00
2 Leather Collecting Bags U.S.G.S.

2 Knapsacks at 3.00 (?)

Sledge
One 8 or 12 lb. Sledge, Wedge-shaped with edge ∥ to handle. — at Pollocks. — 3.00
2 Extra handles for same — 1.00

Petri dishes (S. L. Co.) #6275, 100 mm. in diameter
40 @ 25¢ 10.00

Graduated cylinders (K. S. Co.)

2 N/938 capacity 10 cc. @ 25¢ ..... .50
2 N/938 " 250 cc. @ 75¢ 1.50
2 N/938 " 1000 cc. @ $1.50 ..... 3.00

Corrosive sublimate 2.00

Coplin staining jars (K. S. Co.)

12 N/1636 @ 50¢ 6.00

Microscopical object slides (Spencer Lens Co.)

4 Gross #1000 ..... 4.00
1 " #1005 ..... 1.10

1 oz. Cover glasses (Squares) No. 0 1050, 25 mm. . 2.00

3 oz. " " " No. 0 1065, 25 mm.(#3) 2.10

3 oz. " " (Circles) No. 0 1085, 25 mm.(#3) 2.40

4 oz. " " (Rectangular) No. 0 1120 .... 5.00

Schmitt insect boxes (Kny ScheererCCo.)

30 N.S./3109 .... 9 x 13 inch @ $1.00 .. 30.00

Chloroform 10.00

Dissecting sets (estimated) 20.00

Reagents, stains, etc. (estimated) 25.00

Cyanide bottles (K. S. Co.)

4 NS/607 4 in. long 1.30
2 NS/607 6 in. long 1.00

Potassium cyanide 2.00

Extra corks for vials (estimated) 5.00

Pipettes - B. & L. #15938 - 20 ..... 1.75

" " #15934 - 30 ..... .90

Tape measure - Linen (K. S. Co.) 0/2437, 2 @ 50¢ .. 1.00