

Observer
G. Simpson

15th SEPT - 28th SEPT 1911

Capt Scott's journey to the
WESTERN MOUNTAINS

SEPT 1911.

BAE
20

LAE 20





Continued from next page

F	East Cathedral Rock	13°-18'0
G	Green Face " "	78°-58'30
H	Knob Head.	109-45-00

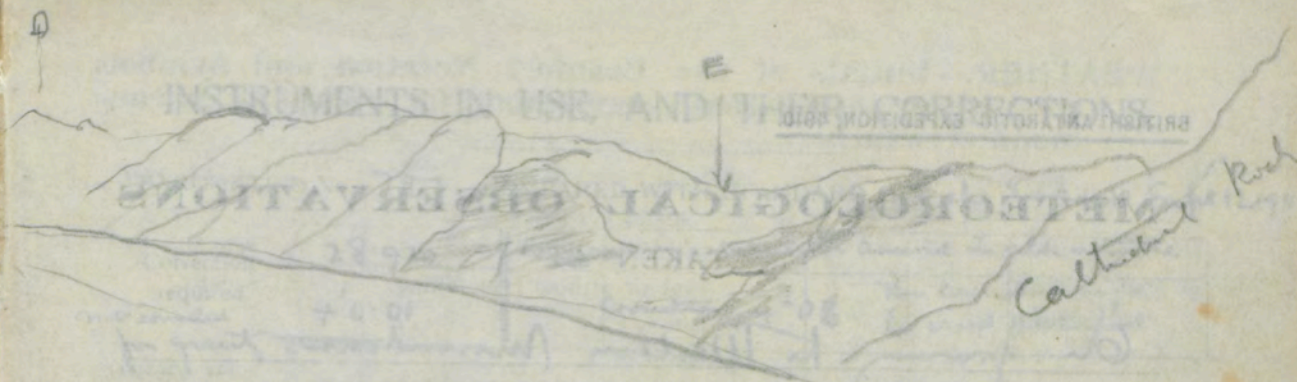
ZOK



- ~~180~~ A Pagoda Peak 180
 B Lionel Peak Bm 246.39 30
 C Mt Bird 279.52 00
 D End Foot Hill 285.34 30
 E Middle Decent Pass 324.37 30

Continued last page

Lower Glacier from
 peg No 4. 20/9/11



Position of Station: Lat. _____ Long. _____
 Height of barometer (corrected above Mean Sea Level) _____
 During 20/9/11

BRITISH ANTARCTIC EXPEDITION, 1910.

METEOROLOGICAL OBSERVATIONS

TAKEN AT

On journey to Western Mountains

During 19 September 1911

By

B. Chipman

Position of Station: Lat. _____ Long. _____

Height of Barometer Cistern above Mean Sea Level _____ feet.

WEATHER.—Initials of the Baromet Notation and Symbols INSTRUMENTS IN USE, AND THEIR CORRECTIONS.

BAROMETER No. 757 COMPARED WITH STANDARD at Cape Evans 19 Sept 12, 1911

Correction required	28.920	Compared on action with aneroid in cold outside
not corrected for gravity.	+ 0.01	Correction + 0.06 This corrected height is used throughout.

THERMOMETERS		-77	-50	-32	-10	+10	+32		
Wood ally	Dry Bulb. No. 90	60	00	+0.5	-0.5	-0.5	-1.0	Correction	applied
	Max. in Shade, No.							7-20	-0.5
	Min. in Shade, No.							< -30	0.0
	Max. in Sun, No.								
	Min. on Snow, No.								
	Shen No. 54-0.5	+0.5	0.0	0.0	-0.5	-0.5	-0.5		

WEATHER.—Initials of the Beaufort Notation and Symbols adopted by international agreement for recording phenomena of weather.

b.	blue sky	r.	● rain.	~	glazed frost.
c.	detached clouds.	p.	passing showers.		
o.	overcast.	d.	drizzling rain.	☙	gale.
m.	☰ ^o mist.	e.	wet air without rain falling.	q.	squally.
f.	☰ fog.	s.	* snow.		
g.	gloomy.	+	snow drift.	○	solar corona.
u.	ugly, threatening.	* []	snow lying.*	⊕	solar halo.
z.	∞ dust haze or smoke.	←	ice crystals.	☾	lunar corona.
v.	unusual visibility.	h.	▲ hail.	☾	lunar halo.
t.	⊥ thunder.	Δ	soft-hail.		
l.	< lightning.	w.	☂ dew.	(rainbow.
K	thunderstorm.	x.	⊥ hoar frost.	☀	aurora.
		V	silver-thaw. rime.		

* More than half the country in sight round the station covered with snow.

NOTE.—Do not use "h" for haze, nor "sh" for showers.

A line under an initial or the exponent "2," appended to a symbol, denotes intensity thus h or ▲² indicates heavy hail, ☰^o indicates light fog or mist.

BEAUFORT WIND SCALE.

Beaufort Number.	Description of Wind.	Equivalent velocity in miles per hour.
0	Calm.	0
1	Light Breeze.	2
2		5
3		10
4	Moderate Breeze.	15
5		21
6	Strong Wind.	27
7		35
8	Gale forces.	42
9		50
10	Storm forces	59
11		68
12	Hurricane.	above 75

INSTRUCTIONS.

Barometer.—The aneroid barometer should be lightly tapped before taking a reading.

Hypsometer.—Only pure water obtained from snow to be used. No water should be allowed to splash into the bulb of the thermometer during an observation.

Thermometer.—The aluminium sling thermometer should be allowed to remain in the open for at least ten minutes before a reading is taken in order that the bulb may acquire a temperature near that of the air. When an observation is to be made the thermometer should be opened and swung for a minute; the swinging must then be repeated until three readings have been obtained, each giving the same temperature. The final steady reading should then be entered in the note book.

Wind.—All wind directions must be "true" and not "magnetic"

Clouds.—The proportion of the sky covered by cloud should be indicated on a numerical scale running from 0, cloudless, to 10, completely overcast. The numbers given are to refer solely to the amount of the sky covered and not to the density, height or other quality of the cloud. Fog must be regarded as a cloud at ground level, and 10 must accordingly be entered for the amount of cloud on foggy days. If clouds can be seen through a thin mist, the amount of real cloud should be entered in the column and a note made under "Remarks."

BRITISH ANTARCTIC EXPEDITION, 1910.

REMARKS.

The following are the chief cloud forms:

Cirrus	...	(Ci)	...	} High.
Cirro-Stratus	...	(Ci-St)	...	
Cirro-Cumulus	...	(Ci-Cu)	...	
Alto-Cumulus	...	(A-Cu)	...	
Alto-Stratus	...	(A-St)	...	} Low.
Strato-Cumulus	...	(St-Cu)	...	
Cumulus	...	(Cu)	...	
Stratus	...	(St)	...	
Nimbus	...	(Nb)	...	

Enter cloud directions as you would wind directions, *i.e.*, the direction from which they are coming.

Weather.—The Beaufort notation given on page 3 should be used.

Remarks.—Haloes and any unusual phenomena should be noted. It is also desirable that general topographical notes should be added, as for instance, "In valley running N.W.," "To-day's camp higher than yesterday's," etc.

BRITISH ANTARCTIC EXPEDITION, 1910.

OBSERVER'S
INITIALS.

REMARKS.

Udye metre of start.	1891
" " at return	2043
Total march	<u>152 miles</u>

DAY.	HOUR	POSITION.		Bar	Hyps-omet-er	Dry Bulb	Wind Dir. True	Wind Force	Weather	CLOUD.			
		Lat.	Long.							Amount	Kind	Direction from	
												upper	lower
Sept 1911													
Fri 15 th	13h	5 1/2 miles from Cape Horn		28.90		-36.5		Calm		8	Ci S		
	19-15	12 miles		29.00		-27.5		Calm		10	Ci S		
Sat 16 th	9	Ditto		29.00		-30.0	NNW	1		4	Ci S		
"	13-15	20 miles	175 gals	29.06		-30.7		Calm		6	Ci S		
"	19-20	25 miles	275 gals	29.04		-26.0		Calm		5	Ci S		
Sun 17 th	9h	Ditto		28.99		-22	S	1		2	Ci S		
"	12	28 M 1500 yds		28.99		-14	S	4		1	Ci		
"	20h	Foot of snow		28.95		-35.0			Thinn down glass	2	Ci S		
Mon 18 th	9-25	Ditto		28.75		-34.0			Thinn down glass	5	Ci S		
"	12-45	42 M 1100 yds		28.71		-35.0			Ditto	8	Ci S		
"	19-20	40 M 1375 yds		29.90		-30			Down glass	9	Ci S		
Tues 19 th	9-15	Ditto		28.00		-22			Down glass	10	Ci S		

BRITISH ANTARCTIC EXPEDITION, 1910.

OBSERVER'S INITIALS.

REMARKS.

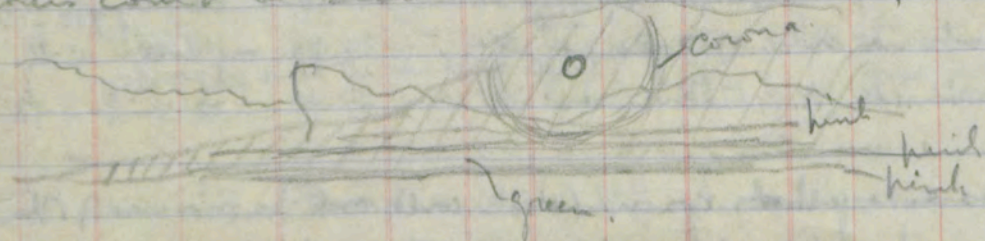
Ci S radiant ESW. Cross pasteurizer well marked SE & E by south.
 22° halo with horizontal much seen. Well marked Myzomys Falcatus.
 Heavy body lower north. Fast not clearly marked ESE.
 Very thin Ci S with little S in east.
 22° halo fairly small. Sun 54° E & E of S from ground. Little snow lying.
 During the afternoon from 4 to 6 pm a breeze 3. Blue from S with little drift.
 Lasting SSE & ESE. Min -27.0.
 Slight drift. Wind has only just risen. Thaps more after fog to depart 29 M 00 yds.
 Min -40.0. Halo on snow.
 Wind has been blowing down glacier all afternoon. Eulm clear over layers of S clouds.
 Min -35.0. ditto

DAY.	HOUR	POSITION.		Bar	Hyps- omet- er	Dry Bulb	Wind Dir. True	Wind Force	Weather	CLOUD.			
		Lat.	Long.							Amount	Kind	Direction from	
												upper	lower
Tue 19 th	12-40	53° 19'	1600	27.39		-23	Down glac	2		8	LS		
	21-00	54° 19'	1450	27.32		-15	"	5		1			
Wed 20 th	8-45	54° 19'		27.29		-17	"	2		8	LS	SE	
	14-20	54° 19'		27.38		-13	"	2		6	LS		
	19-30	54° 19'		27.42		-6	"	1		0			
Thurs 21 st	8-00	54° 19'		27.44		-19	Calm			10	Fog		
Sledge metre used on leaving this camp 2 miles 800 yds (on account of													
	13-20	54° 19'		29.25		-15	Down glac	2		8	LS		
	19-30	54° 19'		29.52		-18	Calm			10	overcast day		
Thurs 21 st Today as we marched down the glacier there was at first													
a fairly thick mist. As this cleared away & the sun shone thru													

BRITISH ANTARCTIC EXPEDITION, 1910.										OBSERVER'S INITIALS.	
REMARKS.											
at about 14h a similar down glacier wind to those of last Mon. Temp rose, at 17h force about 3-4s. at about 18h the rose to force 5-6s. sky often clear except for ragged clouds at head of glacier. little surface drift. str. clear over sound, weather looking dull over the sound & dark clouds remain at head of valley Min -27											
Weather clear over sound. Some foglike clouds over mountains at head of valley. Clear over sound. Fairly thick fog which hides all the valley sides Min -23											
of 4 mile (2000 ft) 1948 Bar 27.45 3300 1700-200-1500/16											
Sledge metre 10 miles 1750 yds 1600 7 miles to clouds at head of valley.											
" 20 1750 -											
There was a large late corona (diam could not be measured). The mist must have been composed of ice crystals as the temp was -15°F											

DAY.	HOUR	POSITION.		Bar	Hyps- omet- er	Dry Bulb	Wind Dir. True	Wind Force	Weather	CLOUD.		
		Lat.	Long.							Amount	Kind	Direction from upper lower

At the crystals were so minute that they could not be seen. As the mist cleared all that remained was a stratus cloud along the hill side. This showed bright iridescent colors which were arranged parallel to the side of the cloud & certainly were not parts of clouds round the sun. For a few minutes Corona & iridescent colors could be seen at the same time.



BRITISH ANTARCTIC EXPEDITION, 1910.

OBSERVER'S
INITIALS.

REMARKS.

During the afternoon there was a heavy stratus cloud covering the whole of the ^{eastern} side of the Sound. In the valley the air was calm & overhead were thin Cirrus & Alto-cumulus with some Cirrus showing white on a deep blue sky. These were moving from some southerly direction. Lister was covered in clouds & a heavy Cumulus cloud occupied the head of the valley. Between 11 & 17 hrs three or four large bulks of Cumulus clouds rose above the stratus cloud over the Sound. These rose into the clear sky above the stratus where they clearly met another stratum of air through which they could not rise & then spread out horizontally. There were whirling clouds to south of Erebus. The Ross Island mountain did not show ~~above~~ above the clouds.

DAY.	HOUR	POSITION.		Bar	Hypsomet- er	Dry Bulb	Wind Dir. True	Wind Force	Weather	CLOUD.		
		Lat.	Long.							Amount	Kind	Direction from upper lower
Dec 22 nd	9:00	61° 15'	150° 15'	29.66		-25.0	Calm			1	S	
"	13:00	61° 15'	150° 15'	29.70		-16	Calm			9	W.S.	
"	20:30	61° 15'	150° 15'	29.67		-20	Calm			8	C.S.	
Dec 23 rd	9:00	61° 15'	150° 15'	29.43		-12	Calm			0		
"	13:00	61° 15'	150° 15'	29.31		-8	Calm			1	W.S.	

During the afternoon march a light wind blew from the land to the west appearing to come down the valley + caused a light surface drift. Later on at about 16 hrs the wind suddenly changed + blew with force 3-4 from the south ~~also~~ causing surface drift but more than before. I do not think the current of air extended very high. The wind gradually died away as the evening advanced.

BRITISH ANTARCTIC EXPEDITION, 1910.

OBSERVER'S
INITIALS.

REMARKS.

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The sky was mainly cloudless but there was a fairly thick layer of CiS to the west.

DAY.	HOUR	POSITION.		Bar	Hyps- omet- er	Dry Bulb	Wind Dir. True	Wind Force	Weather	CLOUD.		
		Lat.	Long.							Amount	Kind	Direction from upper lower
Lat 23 rd	21 15	East Camp North.		29.14		-5		Calm		7	CS	
Lat 24 th	9	Sitts.		28.91		-18		Calm		3	CS	
	12-30	Lead camp Inland,		28.77		-15		Calm		10	Fog	Sledge meter 48 M 1420
	19 00	Camp near broken glacier Tongue		28.73		-21		Calm		2	Shots	

The fog which enveloped us at 11 hrs continued into the evening. During the afternoon march a fine fog bow appeared. It was opposite the sun and a measurement of the radius gave 38°. The bow was practically white but a reddish tinge

BRITISH ANTARCTIC EXPEDITION, 1910.

OBSERVER'S
INITIALS.

REMARKS.

Sledge meter 44 M 1375.

Min -21

During morning fog came up from north, extending first down eastern side of strait. It reached us at 11 hrs. Cannot determine whether fog is water or ice as the camp sledge meter read 48 M 1420 yds 1994. It was then read 48 M 1420 yds 1994.

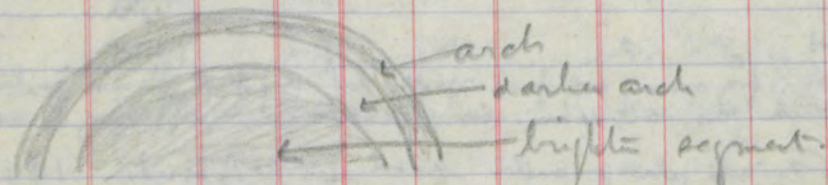
After ready readings were dealt - 4 M 00 yds 1994.

Sledge meter 6 M 1300 yds = 10 M 1300 yds since lunch.

could be seen on the outer side. Within the arch the sky appeared white than outside the ring, but just within the arch the sky was nearly as blue as outside so that there appeared to be a second arch within the main

DAY.	HOUR	POSITION.		Bar	Hyps- omet- er	Dry Bulb	Wind Dir. True	Wind Force	Weather	CLOUD.		
		Lat.	Long.							Amount	Kind	Direction from upper lower

one: Thus



When the arch was at its brightest, the reddish colour on the outside was clearly visible and one could imagine that other colours were present, but one could not be certain of this. During this period the sun shone faintly through the fog brightening up the fog in its neighbourhood, but no colours or rings were visible. As the fog cleared the upper sky became clearer &

BRITISH ANTARCTIC EXPEDITION, 1910.

OBSERVER'S
INITIALS.

REMARKS.

the sun shone through the upper thin fog with a heavier bank of fog below. For some minutes the sun had a brilliant corona with bright colours & the diameter of this corona seemed unusually large but there was no opportunity to make a measurement. As the fog still further cleared away glimpses of the corona appeared again & the fog under the sun became fairly brightly illuminated with iridescent colours, which did not appear to be part of the corona but in places blended into it. During the whole period the temp was between -15° & -21° F. The fur of the sleeping bag & the wool of sweaters became covered with hoar frost.

DAY.	HOUR	POSITION.		Bar	Hyps- omet- er	Dry Bulb	Wind Dir. True	Wind Force	Weather	CLOUD.			
		Lat.	Long.							Amount	Kind	Direction from	
												upper	lower
Mon 25	8-40	Ditto		28.68		-11			Cal.	10	S		
"	12-40	Land camp		28.69		-9	2	NW.		10	S		
"	21-00	Floe camp		28.74		-6			Light air	10	S		
Tues 26	8-30	"		28.73		0	2	S		7	S ⁺ Cal.	S	
"	12-00	2 nd floe camp				+4	6	ESE	hazy	10	Blizz. Drift		
"	2-00	Ditto		28.71		-3	8	ESE		10	Thick overcast No drift		
Wed	10-30	Ditto		28.80			6	SE	hazy	10	Little drift		
"	12-30	Ditto		28.83		-8	6	SE	hazy	10	" "		
"	10-30	Ditto		28.89		-9	4	SSE		10	Thy clearing No drift		
Thurs	9-30	Ditto		28.89		-17	3	SSE		4	Cl.S		
"	12-00	Land camp		28.89		-12	7	SE		3	Cl.S		

BRITISH ANTARCTIC EXPEDITION, 1910.

OBSERVER'S
INITIALS.

REMARKS.

Hedge meter after short march to cape north of Cape Bernacchi 8 M. 1875 yds
 Hedge meter 14 M 730. Little clear sky in W & NW.
 Hedge meter. 25 M. 1450 yds.
 rain - 8. Appears to be drifting in east of house
 Hedge meter 27. 1300. Went into blizz camp.
 Dark on eastern horizon. but land north, land to west not visible
 Drift ceased during afternoon
 Wind blew very hard (force 10) during night
 Hedge meter 36 M 1175 yds
 " " Ice camp 38 M. 250 yds Very little surface drift.
 " " Cape Bernacchi 45 M 575 yds 38 250

OBSERVER'S
DAY.

HOUR

POSITION.

Lat.

Long.

Bar

Hyps-
omet-
erDry
BulbWind
Dir.
TrueWind
Force

Weather

CLOUD.

Amount

Kind

Direction from
upper lower

BRITISH ANTARCTIC EXPEDITION, 1910.

REMARKS.

OBSERVER'S
INITIALS.

Recommence made Wed Sept 20 1911. Opposite face of post.
Zero set on B right through.

A 2 B' - 10' 20K

3 2 B' - 3 1/2' (left of center wire ^{set on} A) as seen in telescope).

A 2 B' - 9' 20K

A 3 B' - 14' 20K.

2 3 B' - 6' 20K (right of center wire ^{set on} B)

A 3 B' - 14

4 3 B' - 9 1/2' (left of center wire ^{set on} A)
20K

A 4 B' - 13 1/2' 20K.

3 4 B' - 7 1/2' (right of center wire ^{set on} B)

2 4 B' - 6 20K

A 5 B' ~~4 1/2'~~ - 9 1/2' 20K.

5 4 B' - 14 1/2'

A 4 B' - 13'

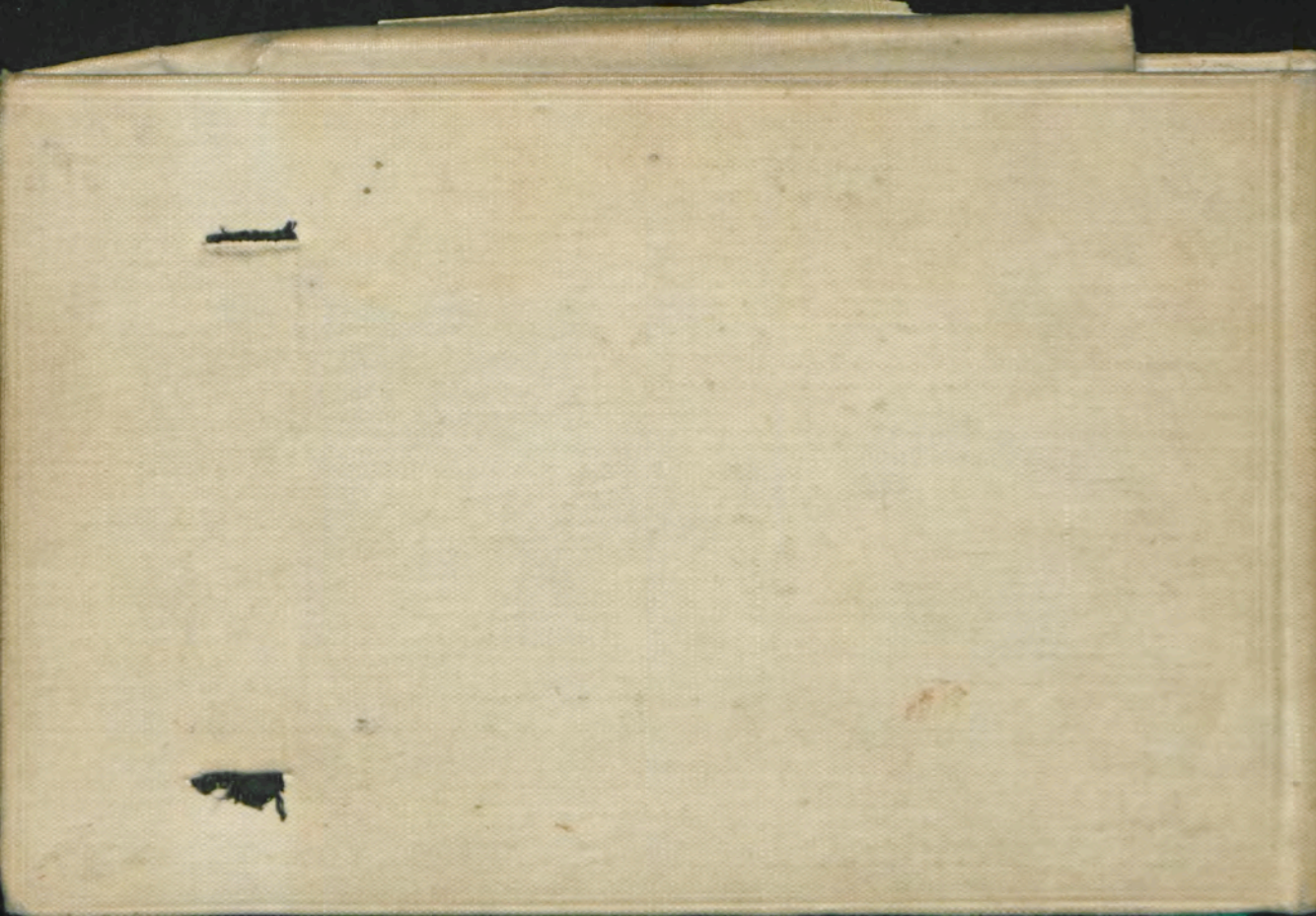
20K -

Ready of slide meter at each stake.

2	0	1450	2	0700	370	375	372.5
3	0	1820	2	0325	288	290	289
4	1	0080	2	0035	995	988	991.5
5	1	1075					

1 inch = 2028 yds

2028
1820
- 208
80
2028
1075
- 953
35
988



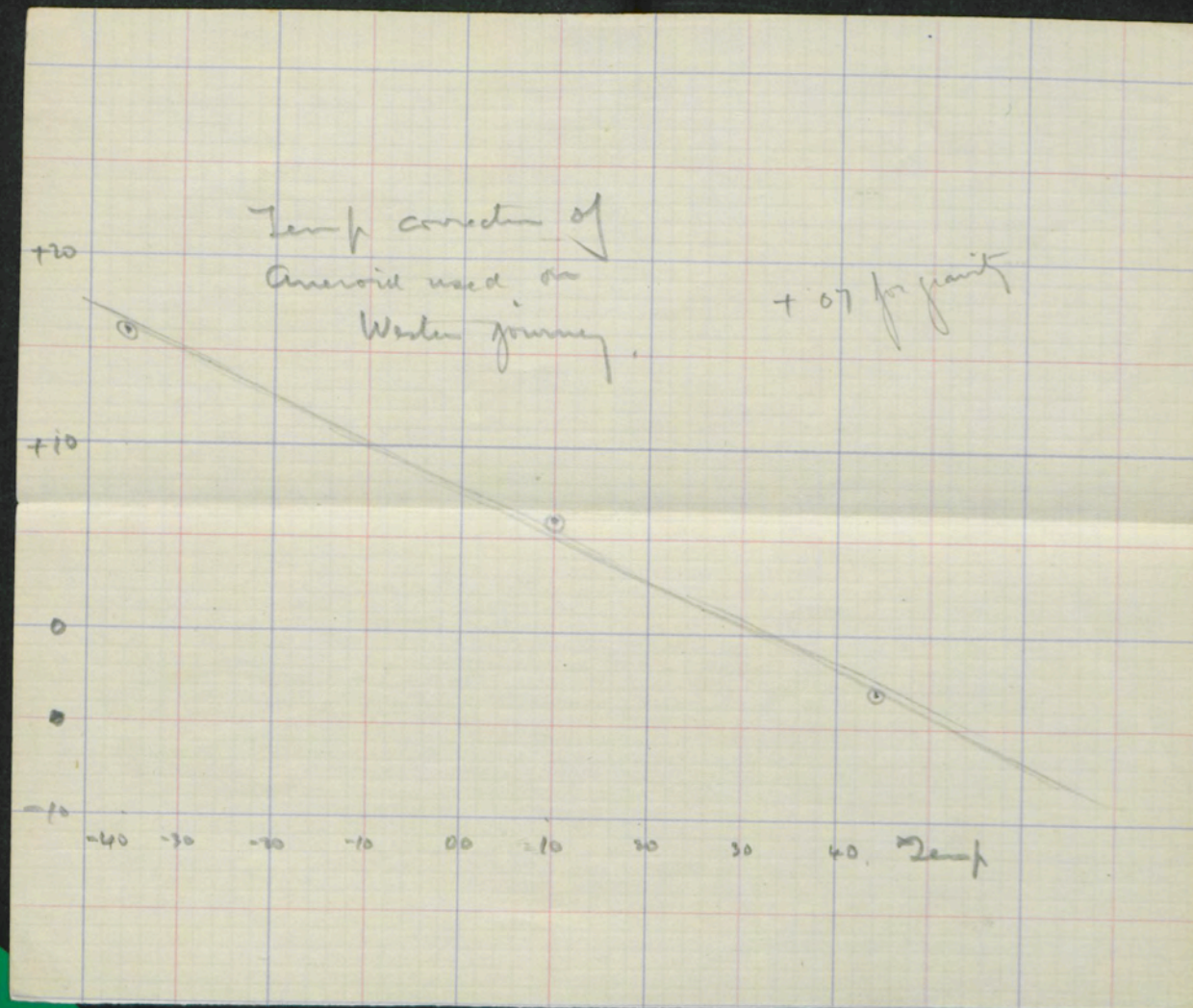
Date	Time.	Temperature		Wind		
		C. Evans	West.	Cape E. in	West.	Cat.
15	13	-34.	-36.5.	0	0	Cat.
Fluc	19-15	-27	-27.5.	0	0	Cat.
16	9	-24.	-30.0	0	2	1
	13-15	-18.	-30.7	5	0	Cat.
Mean P. 19-30		-2.	-26.0	22	0	Cat.
17	9	-4	-22.0	6	2	1
	12	-2.	-14.0	8	15	4
Foot of Jern.	20.	-9.	-35.0	12.	2	1
18	9-25	-22.	-34.0	3.	2	1
	12-45	-20	-35.0	8	2	1
Indistinctly Real.	19-30	-22	-30.0	11	10	3
19	9-15	-24.	-22.0	0	2	1
	12-40	-20	-23	0	5	2
Catth Rock	21.0	-23.	-15	0	21	5
20	8-45	-9	-17	5	5	2
	14-30	-10.	-13	5	5	2
Catth Rock	13-30	+2	-6.	39.	2	1

		Temperature		Wind		
		C. Evans	West.	C. Evans	West.	Cat.
21	8-00	-2.	-19.	41.	Cat.	Cat.
	13-20	+2	-15	36.	5	2
End of Jern.	19-30	-2	-18.	43.	0	Cat.
22	9-00	-5	-25.	21	0	"
	13-00	+4.	-16	8.	0	"
Catth Barnacle	20-30	-12	-20	5	0	"
23	9-00	-10.	-12.	8.	0	"
	13-00	+5.	-8	22.	0	"
Bl. H. Cape.	21-15.	-10.	-5.	11.	0	"
24	9	-20.	-18.	5.	0	"
	12-30	-12	-15.	0	0	"
Black Junc.	19-0	-10.	-21	3	0	"
25	8-40	-5.	-11	4.	0	"
	12-40	-4.	-9	4	5	2
1st Huc. Cap.	21.00	-5.	-6	13	0	air.
26	8-30	+8.	0	36.	5	2
	12-00	+5.	+4	46.	27	6
2nd Huc. Cap.	21.00	+4	-3	51	42	8

		Temperature		Wind		
		Cape E. in	West.	Cape E. in	West.	Cat.
27.	10-30	-	-	43.	27	6
	12-30	-6.	-8	43	27	6
2nd Huc. Cap.	20-30	-4.	-9.	42.	15.	4
28.	9-30	-14.	-17	22.	10	3
End Cap.	14-00.	-11.	-12.	36.	35.	7.

		W	C.E.	
15 th	13.	28.90	29.13.	-23 + 16
	19.	29.00	9.21.	-21
16 th	9	29.00	9.22.	-22
	13.	29.06	9.25.	-19
	19-20.	29.04	9.22.	-18
17 th	9	28.99.	9.14.	-15.
	12.	28.99.	9.12.	-04
	20.	28.95.	9.07.	-12
18 th	9	28.75.	8.98.	-23.

21	19-20.	29.52	29.59.	-07
22.	9.00	29.66	9.81.	-15.
	13.00	29.70	9.85.	-15
	20.00	29.67.	9.83.	-15
23.	9.00	29.42	9.56.	-13
	13.00.	29.31	9.40.	-09.



26.	8-9.	28.72	8.78.	-05
	21.	28.71	8.83.	-12
27.	10-11	28.80	8.92.	-13
	12-13	28.82	8.99.	-16
	20-30	28.89	8.98	-09
28	9-20	28.89	9.03.	-14
	14-20	28.89	9.00	-11

grav + 07.
- 06
+ 13.