

Observer

B. C. Day.

DEC 26<sup>th</sup> 1911 - JAN 21<sup>st</sup> 1912

1912

ONE TON DEPOT  
PARTY.

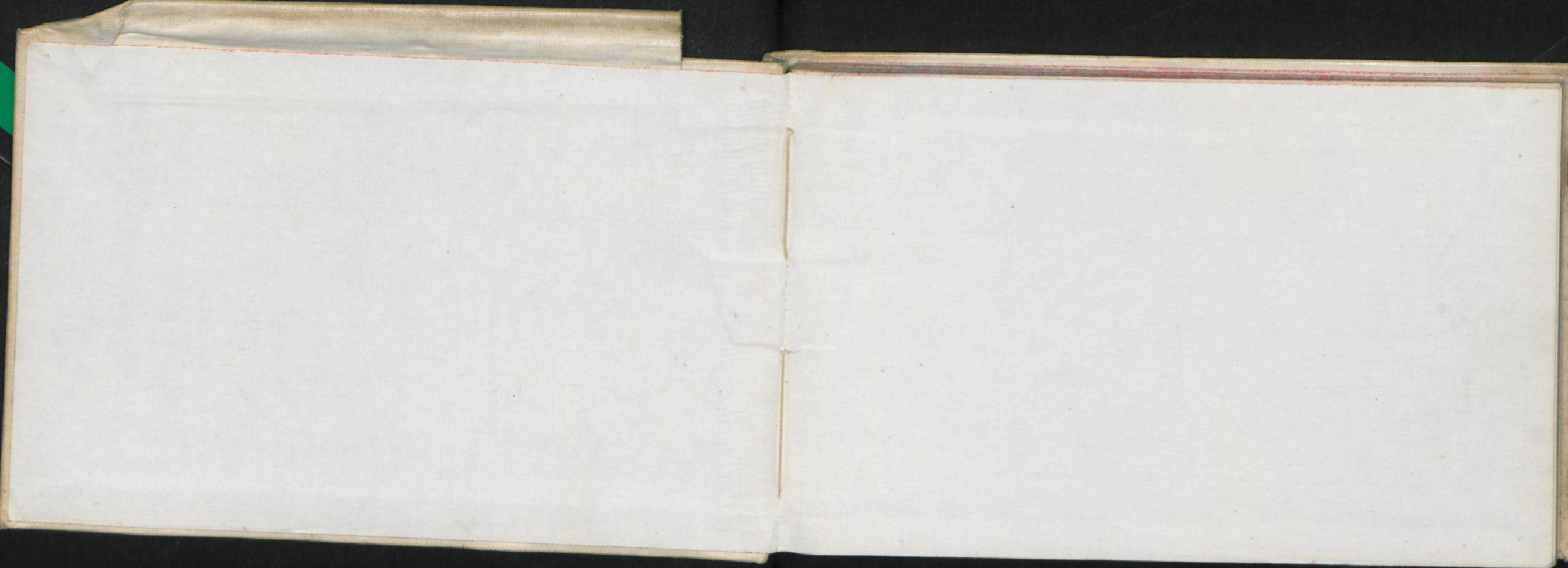
Dec 26 1911 - Jan 21<sup>st</sup>, 1912.

B 753

B.E.A.

28

One Ton Depot Party





BRITISH ANTARCTIC EXPEDITION  
INSTRUMENTS IN USE AND THEIR CORRECTIONS

METEOROLOGICAL OBSERVATIONS

By *Dr. J. D. Dyer*  
TAKEN AT *Point Barrow*  
DATE *1854*

During *19*  
Position of Station: Lat *71° 30' N* Long *156° 45' W*  
Height of Barometer Cistern above Mean Sea Level *100*  
By *Dr. J. D. Dyer*



BRITISH ANTARCTIC EXPEDITION, 1910.

# METEOROLOGICAL OBSERVATIONS

TAKEN ~~AT~~ on

Barrier

During 19

By One Ice Depot Party.

Position of Station: Lat. \_\_\_\_\_ Long. \_\_\_\_\_

Height of Barometer Cistern above Mean Sea Level \_\_\_\_\_ feet.

## INSTRUMENTS IN USE, AND THEIR CORRECTIONS.




BAROMETER, No. 753, COMPARED WITH STANDARD at Cape Evans on 26 Dec 1911

Correction required	30.00	6 inches 29.57	Correction applied through
including gravity	-0.05	-0.03	-0.04

THERMOMETERS		-75	-50	-25	-12	+4	+32	
Sh No. V	Dry Bulb, No. 89	+1.5	+1.0	+0.5	+0.5	0.0	-1.0	
	Max. in Shade, No. ....							
	Min. in Shade, No. ....							
	Max. in Sun, No. ....							
	Min. on Snow, No. ....							
	No. ....							
	No. ....							




# 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.	 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.	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 ▲<sup>2</sup> indicates heavy hail,  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		27
7	} Strong Wind.	35
8		42
9	} Gale forces.	50
10		59
11	} Storm forces.	68
12		75
	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.

100

— 222 —



DAY.	HOUR	POSITION.		Bar	Hyps- omet- er	Dry Bulb	Wind Dir. True	Wind Force	Weather	CLOUD.			
		Lat.	Long.							Amount	Kind	Direction from upper lower	
Dec 26 <sup>th</sup>	10 P.m.	Hut	Pt.	30.03	min	+28.6				5	CI	SSE NNE	
27 <sup>th</sup>	7 am	"	"	30.06	+15.5	+22				6	CI	SSE NNE	
27 <sup>th</sup>	1 P.m.	Safety Camp		30.05	+	+30.5				7	CI	SSE N	
27 <sup>th</sup>	7 P.m.	5 miles beyond		29.92		+29.5			⊕	8	CI	ST-CL N	W
28 <sup>th</sup>	7 am	"	<del>20-18</del>	29.84	+11.2	+22.9	SSW	1	M	7	CI	SSE N	
28 <sup>th</sup>	1 PM	"	<del>20-18</del>	29.93		+27.3	SSW	1/2		9	CI A-CL	SSE N	
28 <sup>th</sup>	7 PM	15 -	<del>20-18</del>	29.84		+29				8	A-CL	SSE N	
29 <sup>th</sup>	7 am	15 -	<del>20-18</del>	29.72	+17.1	+21.9			0	10	A-CL	ST-CL A-CL	STSE
29 <sup>th</sup>	1 PM	20 -		29.75		+27				4	A-CL	ST-CL A-CL	W
29 <sup>th</sup>	7 PM	Corner Camp		29.76		+24	SSW	1/2				ST-CL A-CL	W
30 <sup>th</sup>	8 am	"		29.74	+23	+27	SSE	3	⊕	10			
31 <sup>st</sup>	10 am	"		29.76		+22	SSE	3-4	⊕	10			

BRITISH ANTARCTIC EXPEDITION, 1910.				OBSERVER'S INITIALS.
DATE	TIME	REMARKS.	Lat.	Long.
1910		St. Cu on Western Mts		
		Enders smoke at noon coming from NNE		
		Light fog coming from SSW		
		Enders smoke going N a light fog came up from the S W on starting this morning but has now drifted away to the E		
		Light fog to East		
		Light fog bank on E horizon Enders smoke going SSW		
		Blizzard all day		
		Blizzard very thick to S. Sun shining at intervals		



DAY.	HOUR	POSITION.		Bar	Hyps- omet- er	Dry Bulb	Wind Dir. True	Wind Force	Weather	CLOUD.		
		Lat.	Long.							Amount	Kind	Direction from upper lower
Dec 31 <sup>st</sup>	PM 2-30	S 60° 07'		29.44		-	SSE	3-4	0	10		
- 31 <sup>st</sup>	PM 6-30	4 miles beyond	78-07	29.63		+15	SSE	2-3	0	10		
Jan 1 <sup>st</sup>	Yam 4	78-07		29.57	+14.5				OM*			
- 1 <sup>st</sup>	1 PM 8	78-11		29.6	+17.2		E	1/4	0	*		
- 1 <sup>st</sup>	PM 6-50	15	78-18	29.56	+16.5		E	1/4	0	*	10	
- 2 <sup>nd</sup>	Yam 15	78-18		29.56	+11.2	+13	E	1/2	0	*	10	
- 2 <sup>nd</sup>	1 PM 10	78-23		29.55	?	+16.5			0	*	10	
- 2 <sup>nd</sup>	Yam 25	78-22		29.5		+16	N	1/4	0	*	10	ST
- 3 <sup>rd</sup>	Yam 25	78-28		29.35	+13	+14	N	1		9	ST-CU	NW

# BRITISH ANTARCTIC EXPEDITION, 1910.

OBSERVER'S  
INITIALS.

## REMARKS.

Slight blizzard

Overcast Sun shining on bluff which is faintly visible

Slight fog snow falling

Overcast. Bad light. Stratus

Sun faintly shining

Overcast. Bad light.

" " " Light snow falling more or less continuously, all morning (It is advisable to have an F Pencil not an HB)  
Sun faintly shining light Easterly air by changed to Southerly about noon

Sun faintly shining



DAY.	HOUR	POSITION.		Bar	Hyps- omet- er	Dry Bulb	Wind Dir. True	Wind Force	Weather	CLOUD.			
		Lat.	Long.							Amount	Kind	Direction from	
												upper	lower
Jan 3 <sup>rd</sup>	1 PM	S 30° 20' 33"		29.37		+25	NNW	1-2		8	ST-CU		NNW
- 3 <sup>rd</sup>	7 PM	35° " 78-38		29.28		+19	NNW	2		7	ST-CU		NNW
- 4 <sup>th</sup>	4 AM	35° " 78-38		29.33	+10	+14	SSW	1-2		3	A-CU	NIE	
- 4 <sup>th</sup>	1 PM	40° " 78-43		29.4		+18.5	SSW	1/2		3	ST-CU A-CU	NIE	NW
- 4 <sup>th</sup>	4 PM	43° " 78-44		29.44		+14	O			4	A-CU	E W	
- 5 <sup>th</sup>	4 AM	43° " 78-46		29.47	+5	+11	O		—	5	A-CU	S	
- 5 <sup>th</sup>	1 PM	47° " 78-50		29.46		+18	NNE	1/2		1	CU A-CU	S	N
- 5 <sup>th</sup>	7 PM	Bluey Camp 1 mile 78-58		29.45		+20	NNE	1-2					
- 6 <sup>th</sup>	7 AM	1 " 78-58		29.36	+5.6	+16	SSE	1/2	←				
- 6 <sup>th</sup>	1 PM	6 " 79-53		29.38		+15			←		CI	N	
- 6 <sup>th</sup>	7 AM	14 " 79-11		29.35	(1)	+15.5					CI	N	
- 7 <sup>th</sup>	7 AM	14 " 79-11		29.5	+4.5	+10.5	SSW	2	—				

# BRITISH ANTARCTIC EXPEDITION, 1910.

REMARKS.

OBSERVER'S  
INITIALS.

Sun shining at intervals

Low fog banks on Southern horizon  
Low fog bank about 1 to 2 miles ahead  
Light C<sub>1</sub> clouds to N. over Ross Is.  
Slight fog had light



DAY.	HOUR	POSITION		Bar	Hyps- omet- er	Dry Bulb	Wind Dir. True	Wind Force	Weather	CLOUD.			
		Lat.	Long.							Amount	Kind	Direction from	
												upper	lower
Jan									*				
Re. Y <sup>th</sup>	1 Pm	19	79-16	29.05		?			O	10			
- Y <sup>th</sup>	4 Pm	24	79-21	29.06		+15.5			O*	10			
- 8 <sup>th</sup>	1 Am	24	79-21	28.97	+12.2	+13.5	NNIE	1-2	O	10			
- 8 <sup>th</sup>	1 Pm	26	79-23	28.94		+14.5	NNE	1	b	0			
- 8 <sup>th</sup>	10 Pm	1 Tan	Repat	28.96		+5.5							
- 9 <sup>th</sup>	9 Am	1 Tan		28.93	+1.5	+17	NNE	1	O	10	Al Bu	NE	
- 9 <sup>th</sup>	2 Pm	4 miles	N 79-26	28.99		+14.5	NNE	1/2	O	10	Al Bu	NE	
- 9 <sup>th</sup>	8 Pm	10 "	79.20	29.05		+17			O*	10	Al Bu	NE	
- 10 <sup>th</sup>	1 Am	10 "	79.20	29.16	+15	+16	SSW	1-2	O*	10			
- 10 <sup>th</sup>	1 Pm	15 "	79-15	29.21		+17	SSW	1-2	O*	10			

# BRITISH ANTARCTIC EXPEDITION, 1910.

REMARKS.

OBSERVER'S  
INITIALS.

Overcast very bad light fog + snowing, light southerly airs

Overcast slight fog but clearing with a N wind

St. cv to NW on horizon fog bank on SE horizon. Since the fog passed here there has been no wind, but the tracks are more or less filled in with fog crystals -

Al Bu clouds coming from NNE.

Light southerly airs

Clear patch of sky on Western horizon



DAY.	HOUR	POSITION.		Bar	Hyps- omet- er	Dry Bulb	Wind Dir. True	Wind Force	Weather	CLOUD.			
		Lat.	Long.							Amount	Kind	Direction from	
												upper	lower
Jan 10 <sup>th</sup>	4 pm	20 N	79-10	29.22		+14.5				A-CU		SE	
-	11 <sup>th</sup>	7 am	20 N	79-10	29.2	-1	+12.5			CI-ST		N	
-	11 <sup>th</sup>	12 pm	20 N	79-10	29.2	-1	+12.5			A-CU		SE+SW	
-	11 <sup>th</sup>	12 pm	25 N	79-05	29.13		+15.5	SW	1	CI	2	W+N	
-	11 <sup>th</sup>	4 pm	2 <sup>nd</sup> 78-54	29.11		+13.5				A-CU	3	W	
-	12 <sup>th</sup>	7 am	2	78-54	28.96	-2.1	+14.5	NE	1/2	CI	2	NE	
-	12 <sup>th</sup>	1 <sup>st</sup>	16	78- <sup>41</sup> 37	28.94		+13.5			A-CU	1	SE	
-	13 <sup>th</sup>	8 pm	16	78- <sup>41</sup> 37	29.0	-1	+14	SSW	2-3	A-CU	2	SW	
-	14 <sup>th</sup>	11 am	22	78-35	29.03		+6.6	NNW	1/2	A-CU	3	SE	
-	14 <sup>th</sup>	11 am	22	78-35	29.16	+2.2	+20.5	SSW	0*	CI	10	NW	
-	14 <sup>th</sup>	4 pm	28	78-29	29.22		+21		0*		10		
-	14 <sup>th</sup>	mid- night	28	78-29	29.26		+17.6	SSE	1/2	ST-CU	10	NW	

# BRITISH ANTARCTIC EXPEDITION, 1910.

REMARKS.

OBSERVER'S  
INITIALS.

St. Cu to SW + S

A. Cu forming from NW + SE. Slight Northerly breeze

Sc. Cu to East

Clear sky sun shining all day.

Slight blizzard all day with fine snow falling, but sun shining now, wind in SSW all day

Sun shining

Overcast bad light. Blue sky on Southern horizon

Laid up this evening by heavy fall of snow



DAY.	HOUR	POSITION.		Bar	Hyps- omet- er	Dry Bulb	Wind Dir. True	Wind Force	Weather	CLOUD.			
		Lat.	Long.							Amount	Kind	Direction from	
												upper	lower
Jan 15	3 am	34 N	78-23	29.24		+19			☒	8	al-cu		
-	15 <sup>th</sup> 8 am	40 N	78-17	29.32		+22			☒	9	al cu	NW	
-	15 <sup>th</sup> 3 pm	40 N	78-15	29.34	+15.5	+24	NE	1/2	☒	9	cl.	NW	
-	15 <sup>th</sup> 10:30 pm	45 N	78-08	29.34		+19.5	0	0	☒ ⊕	10	cl-st	E4W	NW
-	16 <sup>th</sup> 8 am	45 N	78-08	29.34	+14.5	+23.5	SSW	1	☒	10	st-cu		NW
-	16 <sup>th</sup> 3 pm	50 N	78-03	29.39		+29			☒	5	al-cu	N	
-	16 <sup>th</sup> 8 pm	Gower Camp		29.38		+19			☒		st ci		
-	17 <sup>th</sup> 7 am	-	-	29.33	+5.2	+14.5			☒				
-	17 <sup>th</sup> 1 pm	4 1/2 miles W		29.34		+25			B ☒				
-	18 <sup>th</sup> 7 am	11 "	W	29.4		+12.5	SE	1-2	0 *	10			
-	19 <sup>th</sup> 9 am	14 "	W	29.45		+11.5	E	1	0 ☒	8	al cu	E	
-	19 <sup>th</sup> 6 pm	14 "	W	29.41		+21.5	NE	1	0 *	10			

# BRITISH ANTARCTIC EXPEDITION, 1910.

REMARKS.	OBSERVER'S INITIALS.
Sun shining N + S al-cu radiating W to E	Blk
Sun shining	Blk
Sun faintly shining clear sky to S. 2 coloured. Mocks Sun.	Blk
Sun very faintly shining	Blk
Gi Clouds radiating from NW	Blk
Bright sun + low fog Snow Bow opposite to Sun (no colour)	Blk
Bright sun	Blk
Clear sky to the South	Blk
Overcast all day	Blk











[illegible]