

Rain 24 hours <sup>prior</sup> up to 9AM on date given.

Sunrise + Sunset supplied by Sydney Observatory for 1st, 11th + 21st each month, to closest minute. Other days interpolated from these. 1953 data

Chauncy Vale rain data by S. J. Bisdor. He goes out and looks in rain gauge from time to time when he thinks it might have rained. He then records amount of rain on sheet of paper without any date. Only time division is into months. Approximate dates I have estimated from other data. His values are cumulative since previous reading less evaporation. He has monthly and annual totals back to 1920.

MN = midnight

SS = Sunset

SR = Sunrise

AR = Auroral Radiation

ATM = Atmospherics

RS = Rain Static

SoSo = Southern Source

DTL = Daytime level

DA = D region Absorption

GRM = Station interference

Dis. = Discontinuity

F = Flu = Fluctuations

W = Weak

M = Med. = Medium

S = Strong

# AUGUST

Date	Day	Sunset	Sunrise	Delay	Morning Center	Minimum Quality	Day Character	Night Atmospheric	
1		723	512						
2									
3									
4									
5									
6									
7									
8									
9									
10									
11		712	522						
12	SUN	710	523	None	—	—	—	Weak	Re
13	MON	709	524	"	—	None	Day up to 1300 Rain Seville + static	Weak	Ra
14	Tue	707	525	"	—	None	Swells + Rain Static	Weak	ab
15	Wed	706	526	"	930	Good Long Tail	Smooth rise to 3P. Faint Min 4P	Moderate	Bu
16	Thurs	704	528	"	900?	Weak	Low + rough. Small rise to 6P	Weak	Z
17	Fri	702	529	"	830?	Fair	Smooth also beyond 1P. Low gain	—	
18	Sat	701	530	"	—	—	—	Weak	ab
19	Sun	659	531	"	940	Good Long Tail	Smooth rise to 140P Faint Min 3P	Moderate	S.
20	Mon	658	532	"	900	Fair	Smooth rise to 4P Faint min about 5P	Moderate	ab
21	Tue	656	533	"	830	Fair	Smooth rise to 5P abrupt rise at Sunit	Weak	ab ri
22	Wed	654	534	"	—	—	Low Gain	Strong	Ra
23	Thurs	653	535	"	—	None	Swells + Rain static	Moderate	He
24	Fri	651	536	"	—	"	"	"	Pol
25	Sat	650	537	"	830	Good	Smooth rise to 4P Faint min 530P	"	Sm
26	Sun	648	538	"	800?	Fair	Smooth + low Lower Gain	weak	V.
27	Mon	646	539	2565	—	None	Bad Rain Static	"	
28	Tue	645	540	"	800?	Poor	Rise to 330P. Min 5P High + Rough	"	Sm
29	Wed	644	541	"	800?	Poor	High + Rough	Moderate	S.
30	Thurs	642	542		—	None	Rough + High	—	

Rough + high with small ripples to 230A. Strong swells to dawn  
Rain static before MN. Smooth 1230-230A, Weak swells to dawn

Absorption near MN. Small swells 2A to dawn.

Bump near 11P. Smooth + low 120A to dawn

Interference 855-1015P. Very good ripples or small swells 1130p -  
430a with period about 30m.

absorption 9-10p, MN, 230-530A, 720A, Low smooth bottoms

Small swells with period of about an hour 2-6AM.

absorption after midnight. Smooth + low especially 2-230A

abrupt start 26 min before sunset. Rough rise 6-1130P which is probably galactic  
rise of 16-2130. HDL partially closes 1215a and completely closes 4AM.

Rain static 250-515A, Very high with swells all night. Absorption prior 9P

High with swells. Rain static 540-800P, 1230-215A, 340-355A.

Polar black out 1230-230A, 320-Dawn. Residual gradually decreases. 1240A to  
Dawn. Very smooth bottoms.

Smooth + low probably absorption all night

Very smooth 1250a to dawn.

" " 1030p to dawn. Probably equipment trouble caused jump at 935A

Smooth + low, Swells after midnight. Daytime level most of night

Smooth + low. Day level all night " " " " "

# AUGUST

Date	Hobart, Tasmania 0h RA	RAIN					Baillif. Lonsley
		Baydell	Kempton	Apology	Chamney Vale	Melton Mowbray	
		0		3			14
			3				
			2	2			
			2				
			4				
		28	10	4	( )		
		36	26	31	(42)		2
		16	37	21	27		18
		11	12	5	35		30
		0	3	28			11
		22	18	41	15		
	0225	21	19	0	12		12
		0	0	0	0		20
			8	0			
			0	17			
			2	0			
			0	0			
			0	0			
	0157	0	13	3			
		70	26	110	44		28
		40	20	41	( )		10
		26	22	0	( )		55
		0	13	0	( )		48
	0137	21	17	25	(50)		
	0133	8	6	0			7
		0	0	0			
			0	0			
		0	0	0			

Worth

Seal

17th: 7

18  
19 Example on MN

20

21

22

23

24

25

Seal

Perth





Date	Day	Sunrise	Sunset	Delay	Morning Center	Minimum Quality	Day Character	Night Atmosphere	
1		639	544						
2									
3									
4									
5									
6									
7									
8									
9									
10									
11		621	555						
12									
13									
14									
15									
16									
17									
18									
19									
20									
21	Fri	603	606	None	—	—	—	Weak	Low
22	Sat	602	607	"	630	Fair	Gradual rise to 330P Faint Min 430P	Moderate	
23	Sun	601	608	"	700?	Fair	Smooth rise in AM. Low Gain	"	Sm
24	Mon	600	609	192N	700	Fair	Rather flat & rough Low Gain	"	Hi
25	Tue	558	610	—	8?	Poor Long Tail	Rough	—	
26	Wed	556	611						
27	Thurs	554	613	192N	—	—	—	Moderate	Sw
28	Fri	552	614	128N	—	None	Strong Swells	Strong	Ven
29	Sat	550	615	"	700	Good	Smooth rise to 4P Rain static etc in	Moderate	Sm
30	Sun	549	616	"	730?	Poor	Rough	Weak	Fair

Smooth balanced night record plus Auroral radiation after 3AM. Good example  
Low gain. Smooth until 3A when ripples start and continue to dawn. abrupt start  
" Small swells to MN. Polar blackout after MN. Very smooth & low  
Smooth to 1A + 340-440A, Swells rest of night. See 29/8/56  
High with strong swells all night

Swells after 1030P, High. Rain static near dawn  
Very strong rain static 530-930p. High + swells to dawn.  
Small ripples to 11P. Smooth to dawn.  
Fairly smooth + low. Swell swells 930P-110A + 4-20A.

Date	H. dist Time of O <sup>h</sup> RA	RAIN			Chauncy Vale	Melton Mowbray	Lucky Bank.	
		Bogdal	Kepton	Aspley				
1		0	0	0				
2			13	15	18		13	
3			0	0				
4								
5								
6								
7		0	0	0				
8		66	45	56	61		48	
9		15	9	0			5	
10		3	4	7			6	
11		0	3	0				
12			3	0			16	
13			0	6				
14								
15								
16								
17								
18		0	0	0				
19		36	28	33		51		27
20		0	0	0				
21		5	7	7			6	
22		0	0	0				
23	2347							
24								
25								
26								
27		0	0	0				
28	2328	14	16	6	36			
29		60	81	21	84		58	
30		6	12	26			34	
del		205	221	177			147	
exp			11	9			9	

table  
top



	5mst	Rise	Peak	to MN	Fall	sunrise	Maximum Atmos- phere
	2h 40m	slow + smooth	MN	Balanced	abrupt	10m	—
	20m	slow + rough	11P	PM	slow + smooth	3h 30m	Weak
	2h	abrupt + rough	230A	AM	slow + swells	30m	Strong
	10m	abrupt + rough	2A	"	slow + smooth	1h 55m	Weak
	No data						Medium
	"	"					No data
	3h 10m	slow + rough	1230A	AM	Rain static		"
Scale 1-6A	Rain static		10P?	PM	abrupt	25m	Medium
Perhaps scale	"	"	930P	"	"	15m	"
Scale	-20	abrupt	1130P	"	"	20m	Weak

# OCTOBER

Date	Day	Sunrise	Sunset	Delay	Morning Center	Minimum Quality	Day Character	Night Atmospheric	
1	Mon	547	617	64N	7?	Poor	Strong Rain static Afternoon	Moderate	H
2	Tue	545	618	"	630	Fair	Rough swell <sup>small</sup> PM	"	S
3	Wed	543	619	"	700	Good	Smooth rise to 330P Rain static later	Weak	S
4	Thurs	542	620	None	7?	Poor	Swell + Ripples	Strong	S
5	Fri	540	621	128N	7?	Fair	Smooth rise to 330P Strong at 4:00 PM	"	R
6	Sat	538	623	"	7	Fair	Rough to 430P Rain static later	Moderate	R
7	Sun	536	624	"	7	Good	Smooth rise to 3P Min 530P	"	Ro
8	Mon	534	625	None	730	Fair	Smooth rise to 6P Testing 1 to 4P	Strong	ab
9	Tue	533	626	"	630	Good	Smooth rise to 6P Very good day	"	Evam
10	Wed	531	627	"	7?	Poor	Smooth + high all day	"	on
11	Thurs	529	628	128N	7?	"	Low Gain, Rain static in PM	Moderate	H
12	Fri	527	629	"	7?	"	High + rough faint min 530P	"	ab
13	Sat	526	631	64N	630	Fair	Smooth rise to 5P Faint min 540P	Strong	wa
14	Sun	524	632	None	—	None	Rough + low	"	St
15	Mon	522	634	"	630	Good	Smooth rise to 330P Faint min 530P	"	H
16	Tue	520	635	"	—	None	High work swell all day	Weak	Ver
17	Wed	518	636	128N	—	"	Low gain, zero drift, Swell PM	Moderate	Ha
18	Thurs	516	638	"	—	None	High swell all day Strong atmospheric	Strong	Su
19	Fri	514	637	"	7?	Poor	Low Gain	Moderate	Ye
20	Sat	513	640	64N	630?	Poor	Low Gain to 1030 Smooth later	"	L
21	Sun	511	641	"	630	Fair	Smooth rise to 4P Slight min 530	"	Ro
22	Mon	509	643	"	6?	Poor	Low gain	"	Pr
23	Tue	508	644	None	7?	"	Low gain to 1200 Swell later	Strong	Fa
24	Wed	506	645	"	630	Fair	Smooth rise to 340 Flat to 540, High	Moderate	Son
25	Thurs	505	647	"	6?	Poor	Daytime atmospheric Low gain	Strong	Pr
26	Fri	504	649	96N	10	Good Long Tail	abnormal min 10A Long dawn drop.	Very Strong	To
27	Sat	503	650	"	830?	Poor	Low Gain, Rain static AM + PM	Strong	an
28	Sun	501	651	—	—	None	Rain static	—	Loc
29	Mon	500	652	Reversed	—	—	Smooth, Min 6P	Very strong Worst so far	Su
30	Tue	458	653	"	6	Fair	Smooth rise to 4P Slight min 530 Strong static	Very strong	W
31	Wed	457	654	"	6	Good	Smooth rise to 4P	Moderate	Sm

# Description of Night Record.

- light  
atmospheric  
Moderate High with swells all night. Four long swells with period of 3 hours starting at sunset near 6P and ending sunrise near 6A. Rather abrupt start. Balanced record plus auroral radiation of auroral radiation after 2AM. Good example.
- " Small swells after 2A. Fairly smooth to dawn. Probably absorption near 1P
- Weak Swells & ripples most of night
- Strong Rough from 8P to 4A. Slight minimum at 4:30A
- " Ripples & small swells 10P-4A
- " Rough. Large swells & some ripples.
- Strong Absorptive prior 11P. Fairly smooth to dawn. Min about 2:10a
- " Example of auroral particle on each side of earth as abrupt start & end. Few particles on back of earth as low toward MN. Auroral radiation very strong 2:15-5:30A. Top Hole probably closed most of night.
- " High & very rough after MN. abrupt start and end. Strong auroral radiation all night. Three very long and high swells with period of 4 hours starting at 6P and ending at 6A. Central MN abrupt start & end. Very strong auroral radiation 7P-MN. Five ripples with period about 5min 7-9P and 12:30-2a. Probably galaxy 12:30a-dawn.
- Moderate Strong rain static 7-10P. Auroral radiation 8:30P-1A. Fairly smooth to dawn. Probably galaxy 1-5A.
- " High with swells & ripples all night
- " Very high. Swells & ripples all night continuing after sunrise.
- Weak High with swells most of night. Rough. Southern source strong 2a-9p with Dalgorn absorption 10a-4p
- Moderate Swells & ripples all night & continuing into day. Southern source begins about 3P
- Strong Very rough & high to 1:40A. Fairly smooth to dawn. Slight min 2:30A. Southern source strong 3a-6P plus abnormal faint type stars galaxies
- Moderate Low & weak. Fairly smooth. Low Gain Good example of rise & fall centered on MN. Sunset to sunrise.
- " Rough & swells all night. Slight min. at 3:30A. Perhaps absorption
- " Precip static 6-7p. Rough 10:30P-2A. Smooth to dawn. Probably the galaxy most of night
- " Fairly smooth to 1:30A. Hole open gradually to 10:15P. auroral radiation starts when top hole exceeds bottom hole in size. at 1:30P
- Strong Southern source 3-4p & perhaps 8-9P. Strong auroral radiation 11P-4A. Probably the galaxy 4:15-5:20a
- Moderate Top hole begins to open about 8:40P. Strong auroral radiation near sunset and 11P-2A; Weather 3-4A. Probably the galaxy 2-3 & 4-5A. abrupt end.
- Strong Low gain. Probably galaxy 8-11:30P. auroral radiation MN-3a. MN. Southern source 4-7a
- Strong Swells prior 11P. Regular bottoms 11P-3A. Small and dawn rise. Minimum near MN. Weak auroral radiation near MN. Strong stars spheres 10-11P.
- Strong Smooth rise & fall centered on 11P. Rain static 8:30P, 2:40, 4:30 & 5:20A.
- Strong at saturation most of time. Few low minimums.
- Strong Day level continues to 8:07P. Strong atmospheric 7-8P & MN-4A. Severe 8P-MN. Galactic background 12:20-4:40A. No auroral radiation except perhaps 8:30-10P.
- Moderate Good example of smooth rise & fall centered on MN. Small ripples near MN.

Date	Holant Time of 0 <sup>h</sup> RA	RAIN					Lowley Banks	
		Bogdal	Kempton	Spoley	Charmey Vall	Melton Mowbray		
1		6	0	0				
2		85	51	62	(72)			
3		7	0	0	8		90	
4	2304	24	6	18	24		4	
5		5	15	10			3	
6		0	0	0				Good & fall
7		0	9	7			3	
8		6	4	0	(12)		6	
9		0	0	8				Perb
10		4	5	5	5			
11		0	0	0			7	
12	2232		0	0				
13	2228		4	11			14	
14		v	24	0				Scale
15		27	0	34	23			
16		34	34	21	45		50	Strong
17		36	19	0	10		7	"
18		4	14	0	(1)		51	
19		36	87	31	(75)			Scale Good & fall Real & f MN plus
20	2201	0	0	0				
21	2157	0	0	0			18	
22	2153	28	25	23	23			Scale
23		2	4	2				Scale 10
24		3	11	19			13	
25	2141	0		0			8	
26		20	24	21	(56)		18	Scale
27		15	17	35			25	" "
28		36	115	39			6	
29			3	3	(130)			
30	2122						4	Example of actual for above Scale Very good rise & fall
31								
total		378	471	341	483		326	
days			19	17	10		17	



# Details of Shape of Night Record

	Time of Start after Sunset	Shape of Rise	Time of Largest Peak	High Side in Relation to MN	Shape of Fall	Time of End after Sunrise	Morning Atmospheric Condition
	Rain	static	11P	PM	slow & swells	25m	Weak
	25m	slow & rough	1130P	PM	abrupt	30m	"
	5m	abrupt	11P	"	"	10m	None
	10m	slow & smooth	3A	PM	slow & swells	5m	Weak
Good example of rise & fall centered on MN	30m	"	MN	Balanced	abrupt	20m	Strong
	3h	"	240A	AM	slow & swells	25m	Weak
	-15m	abrupt	130A	PM	"	1h 10m	None
Min at 230a - Perhaps scale 20-430	2h 55m	abrupt	1030P	PM	slow & rough	30m	Weak
	-5m	"	9A	AM	abrupt	40m	Medium
	3h 20m	slow & rough	130A	AM	slow & rough	35m	"
	25m	abrupt	MN	PM	abrupt	45m	Weak
	-5m	"	830P	"	"	15m	"
Scale 1-5a	-40m	slow & smooth	11P	"	slow & smooth	1 hr	Medium
	0	"	1030P	"	slow & swells	50m	Strong
Strong Southern source 2-9am	-20m	slow & rough	1040P	"	Southern source	None	None
" " 5-9pm	Southern source		1130P	"	slow & swells	50m	Medium
	-30m	slow & rough	930P	"	Southern source	Weak	Weak
on 17th Scale 130-430a	0?	rough	1030P	"	slow & smooth	1h 10m	Strong
Good example of rise & fall centered on MN	-10m	slow & smooth	11P	"	"	-10m	Weak
Rise & fall centered on MN plus swells	-5m	"	MN	balanced	slow & swells	20m	None
Scale 11P-4a	Rain	static	11P	"	abrupt	15m	"
Scale 1020p-130a	0	slow & smooth	240a	AM	slow & rough	15m	"
	Southern Source		230a	"	swells	45m	"
	-45m	rough & swells	130a	"	slow & swells	45m	Weak
Scale 8p-MN	15m	slow & rough	430a	"	Southern Source	Strong	Strong
" 11p-4a	Southern Source		1030p	PM	Rain static	Medium	Medium
	-50m	slow & smooth	"	"	slow & smooth	Rain static	"
	No data						"
Example of very strong storm, & low min as above, also	-15m	slow & rough	Strong atmospheric		abrupt	10m	No data
Scale MN-4a	Strong Atmospheric		PM		slow & rough	10m	Medium
Very good example of rise & fall centered on MN	0	slow & smooth	MN	Balanced	slow & smooth		

# NOVEMBER

Date	Day	Send	Recv	Delay	Morning Center	Minimum Quality	Day Character	Night Atmospheric	
1	Thu	455	655	None	6	Good	Smooth rise to 330P Min 6P	Strong	Grade 2-9
2	Fri	454	656	"	-	None	Rain static, Rise 9A-4P, Min 6P	Strong	DTL ripple
3	Sat	452	658	"	7?	Poor	Second rain static Very rough.	Very strong	Strong 35
4	Sun	451	659	"	-	None	Strong, Pacing static Very rough	Moderate	So So Top
5	Mon	450	700	"	6?	Poor	Rough, Max 320P Min 6P	Moderate	Good Inter
6	Tue	449	701	"	6?	"	Interference? 10A-330P	Weak	DTL
7	Wed	448	703	"	-	None	Low Gain, Rough. Rain static PM.	Weak	Top DTL
8	Thu	447	704	"	630?	Poor	Low Gain, Smooth. Gain, Sum 510P	Weak	DTL Abrupt
9	Fri	446	705	"	6	Good	Interference 11A-1230P Rough, Max 4P, Min 6P	Weak	Slow Weak
10	Sat	444	707	1285	8	Delayed	Smooth rise to N. Rain static PM.	Weak	DTL Weak
11	Sun	443	708	"	630?	Poor	High & rough, Rain static, Max 4P?	Very Weak	DTL High
12	Mon	442	710	"	6?	"	High & rough Max 330P	"	DTL Top H
13	Tue	441	711	None	6?	"	Rough all day with Rain static in PM.	Moderate	DTL DTL
14	Wed	440	712	"	520	Good	Low & fairly smooth Max 430P, Min 8P	"	DTL just
15	Thu	439	713	"	6?	Poor	Low Gain, Smooth. Max 230P, Min 6P	Weak	Grade Thus
16	Fri	438	714	64N	7	Long Tail Fair	Sand & rain static all day.	Strong	Very regular
17	Sat	437	715	"	10?	Long Tail Poor	Rough, Max 2P? Min 7P?	Weak	abrupt to after
18	Sun	436	717	"	530	Good	Fairly smooth rise to 230P Rain static later	Moderate	Strong DTL
19	Mon	435	718	None	7?	Poor	Smooth rise to 3P but Lagging, Min 7P. Good	Strong	Grade abrupt
20	Tue	434	719	"	6	Good	Smooth, Max 230P Min 630P	Moderate	Smooth slight
21	Wed	433	721	"	6?	Poor	Low gain to 1P. Rough in PM, Min 6P?	Weak	with small
22	Thu	433	722	"	6	Good	Smooth, Max 3P Min 7P	Moderate	opening DTL
23	Fri	432	723	"	530	Poor	Smooth, Max 230P Low Gain, No Min.	Moderate	DTL 10P-
24	Sat	431	725	"	7	Good	Rain static 140-430P Max 120P, Min 630	Weak	Hole opening
25	Sun	431	726	96N	-	None	Rain static 430-10A Low Gain	Moderate	Very special
26	Mon	430	727	"	-	"	Rain static 930-1230. High & rough	"	DTL 2-4A
27	Tue	430	728	"	-	"	Smooth & Flat all day Slight Min 7P	Medium	DTL 2-33
28	Wed	429	729	None	7	Medium	Smooth rise to 3P & then flat.	"	Slow So So
29	Thu	429	731	"	-	None	Rain static all day	Very strong	Strong with
30	Fri	428	732	"	-	None	Flat & smooth all day	Weak	DTL



# Description of Night Record

Gradual rise from SS to MN, AR 9-10P, 1220A + strong with <sup>1000</sup>15 min swells from 2-440A. abrupt drop at SR. SoSo 530-8A. Strong ATM 3-4A.  
DTL to 2A. Strong ATM 10P-MN, Strong AR 730-9P, also 230-4A with ripples about 10m period. Small drop at SR  
Strong ATM 10P-2A, Slow rise + weak AR in PM. Strong AR 1-4A with swells 35m long. SoSo weak 4-8A obscures SR.  
SoSo strong at 2P + dies out at 830P, DTL to 107A. Moderate AR to dawn, abrupt End.  
Top hole stays closed all night or probably open 1-5a entirely on 3a  
Gradual rise from 25m before SS. Strong AR 930-1130P with ripples 5-8m period  
Interference 1155P-1210A. Small swells to 4A, DA starts 30m before SR.  
DTL to 130A. Faint rise + fall an hour long centered on 11P. Slow rise 130-420A. abrupt End  
Top hole opens a bit near 11P + slightly in AM. No AR  
DTL to 11P. Small smooth rise + fall centered on 230A. Abrupt End at SR.  
DTL to 930P. Slow rise + fall centered on 200A. Rough with irregular ripples. Weak AR. Abrupt End at SR  
Slow rise begins 20m after SS. Max near MN. Ripples with 4m period 1050P-1230A. Weak AR swells to dawn. Abrupt End 10m before SR.  
DTL to 820P, abrupt start with AR. Six long rough irregular swells to dawn. Weak SoSo obscures SR. High DTL both evening + morning.  
DTL all night. Very slight rise 45m before SR. Smooth as a day record. Very Weak ATM. High DTL both evening + morning.  
DTL to 1010P. Moderate rise to 1140P. Slow fall to dawn. Weak AR swells 11P-2A. Top Hole stayed closed to 1010P. Opened a bit to 1140P and slowly shut to 410A.  
DTL to 840P. Small smooth rise + fall 1 1/2 hr long centered on 930P.  
DTL 1020P for rest of night. Strong ATM 1210-225A. Top hole open only 840-1020P  
DTL all night except very small rise + fall 1120P-1215A. also small bump 345-440A just before sunrise. abrupt end at SR.  
Gradual smooth rise + fall centered on MN. Start 10m after SS. End 1 1/2 hr after SR. Thus some SoSo in AM. Strong RS 1130P-230A. Very weak ATM like day record. Very high + rough, irregular swells from before 430P to 10A. From 7-10A swells weaken and more regular with period 1hr. No effect at SS or SR. Strong SoSo all time. Strong ATM 7-9P + MN-2A. abrupt start 5m before SS. Rapid rise as D region absorption goes away. Hole open from before 8P to after 1030P. Weak AR 1030P-240A. Hole partially closed 240A-SR + abrupt drop. Strong SoSo 4-10P. Weak RS 630, 713 + 745P. Strong ATM 11P-MN.  
DTL 10P - dawn. Hole closed all night. No AR. No effect either SS or SR.  
Gradual rise + fall centered on MN. Start SS + end SR. Strong ATM 8P-MN obscures rise. abrupt start 10m after SS. Weak AR from SS to 11P. Hole remains closed to 2A. + opens slightly 2-4A. Smooth drop near SR as hole closes. Equipment trouble causes zero drift.  
Slight rise + fall centered on MN. Start SS + end SR. Hole barely opens. Weak AR all night with irregular swells. Probable RS 1028P very weak.  
Small rise + fall 10P-SR centered on 1A. DTL to 10P. Small swell 8-9P which may be hole opening a bit or merely AR. Very weak irregular AR most of night.  
DTL to 820P. Small rise + fall 830P-SR centered on 1230A. Small smooth AR swells 10P-230A. Period decreases in order 2h, 1 1/2 hr, 45m 30m.  
Hole gradually opens SS-MN. Then in 15m decreases to much smaller. Again gradually opens 130-340A. abrupt drop 40m before SR. Weak RS 808P + 350A. Weak SoSo SR-9A. Very high + rough. Strong ATM 8-9P. Probably combination of SoSo all night plus AR especially MN-3A. No evidence of galactic radiation. Moderate SoSo all following day.  
DTL to 10P. Very slow rise to MN + more rapid to 4A. Then abrupt drop near SR. Weak AR 2-4A. Hole opens after 10P and becomes nearly full open about dawn.  
DTL to 110A. Well symmetrical rise + fall 1A-SR centered on 230A. Very weak AR 2-330A. Strong ATM 9-1030P. Drop surrounding earth very distorted last two jutes. Slow rise SS-MN and beginning of fall to 110A Then start of AR or more likely SoSo which becomes quite strong by 4A and continues all following day. ATM strong 10-11P  
Strong ATM all night. At saturation 10P-1A. Probably DTL to 945P. Probably galaxy with weak AR 230-Dawn. abrupt drop at SR.  
DTL all night. Weak irregular AR swells 10P-3A. Felle drop at SR due to residual AR.

# NOVEMBER

Date	Hobart Tide of O <sup>h</sup> RA	Rain				Apelony	Lough Barr	
		Bagdad	Chauncy Vale	Kepton	Milton Maurray			
1		0		5				
2		9		4		18		
3				3		3	20	
4				16		13	4	
5		47		27		85	24	
6								
7				2				
8								
9								
10						5		According to Mrs. Williams there is a gathering at her home when Aurora was
11				4				
12		10		3			2	
13								
14				2		9	6	
15								
16		26		29		31	30	
17	2011	25		26			10	
18				5		17	2	
19		15		11		35	4	
20							2	
21								
22								
23								
24								
25				4		3		
26		26		4		26	3	
27		17		13		19	19	
28								
29		8		5				
30		2		8		30	12	
Total		185	235	171		294	143	1st Dec.

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# Details of Shape of Night Record

Mornings of Polar Blackout show strong atmospheric after dawn

Minutes	Shape of Rise	Time of Largest Peak	High Side in relation to MN	Shape of Fall	Minutes	Minimum after Sunrise
Start					End	Morning
-5m	slow + smooth	230a	AM	Southern	Source	Medium
25m	large swells	8P + 240A	Min near MN, irregular	slow + rough	40m	"
10m	slow + rough	320a	AM	slow + swells	1h 30m	"
6h 5m	slow + smooth	3a	AM	slow + smooth	25m	Weak
-25m	slow + smooth	1040p	PM	long tail	2hr	weak
-1h 10m	long faint swell	11P	AM	slow + rough	45m	"
2h 5m	slow + smooth	230a	AM	abrupt	10min	none
2h 30m	slow + rough	230a	AM	abrupt	15min	"
30m	long faint swell	MN	AM	slow + rough	35m	"
1h 25m	abrupt	120a	AM	slow + swells	1h 40m	"
?	-	None	AM	slow + smooth	5m	weak
3hr	slow	1140P	AM	very slow	35m	"
1h 3m	abrupt	930P	PM	small swell	-5hr	"
4h 10m	slow + weak	1150P	AM	slow + weak	20m	strong
10m	long, with small swells	1a	AM	long, slow smooth	2hr	Medium
-2hr	slow + very rough	1230a	AM	slow with ripples	4hr	"
-10m	abrupt	1130p	PM	abrupt	25m	Weak
-3h 40m	"	6P	PM	abrupt	-6h 40m	"
20m	slow	10P	PM	slow + rough	-10m	Strong
10m	abrupt	Min	PM	medium	50m	Weak
25m	slow + smooth	1130p	AM	slow + ripples	10m	None
45m	abrupt	1220a	Balanced	abrupt	30m	Weak
45m	smooth	1230a	"	"	50m	Weak
-90m	smooth + swells	1150p	AM	"	-15m	"
-35m	slow + rough	1215a	Balanced	slow + smooth	30m	None
2h 25m	slow + smooth	3a	AM	slow + swells	1hr	Moderate
5h 35m	slow + smooth	230a	AM	slow + smooth	50m	Medium
40m	abrupt	3a	AM	Rain static	Uncertain	"
20m?	slow + rough	-	Severe, atmospheric	slow + smooth	10m	Strong
-	Fast small swells all night	No start or end	Day level.			Strong
-50m	slow +			slow +		

this is night of a very strong sea.

This may be a good one for galaxy

worth scaling

worth scaling

line + 5/11/56

worth scaling



# DECEMBER

Date	Day	Sunrise	Sunset	Delay	Morning Minimum			Daily Record		Grade
					Center	Quality	atmospheric	Max	Description	
1	Sat	428	733	965	-	None	None	-	Flat & smooth all day	Weak Hole closed AR seen
2	Sun	428	734	"	7a	Good	"	2p	Smooth high night & fall. Min 730P.	
3	Mon	428	735	1925	-	None	Strong	-	Flat & rough all day.	Strongly weathery
4	Tue	427	736	"	6	Poor	Medium	Noon	High & rough all day. Min near 6P	Strongly A
5	Wed	427	737	None	6	"	"	"	Rough & Flat	to after Gradu near S
6	Thu	427	738	"	6	Good	None	2?	Rain static 1-3P Min 3P?	Strongly S
7	Fri	427	739	"	7	Poor	Weak	4	Smooth straight rise. Min 730P	Strongly Gradu
8	Sat	426	740	"	530	Medium	"	11A	Rough. Min 7P	rough Strongly
9	Sun	426	741	128N	-	Poor	"	-	Flat. Low Gain Rain static 5-7P.	Weak Strongly
10	Mon	426	742	"	530?	"	Strong	-	Very strong static. Rain static 4-530P	Gradu Strongly
11	Tue	426	743	"	530?	"	"	1P	Ripples 9A-3P. Min 7P.	Hole p Nice s Weak A
12	Wed	426	744	None	6A	Good	None	-	Gradual Rise, Phasing static	Slow r about 1A
13	Thu	426	745	"	-	None	Weak	4?	Rain static in AM. Rough in PM	Moderate to dawn
14	Fri	427	746	"	530	Good	Strong	2	Smooth rise & fall Min 7P	Slow rise weathery
15	Sat	427	747	"	530	"	Weak	Noon?	Smooth rise. 3P Phase tests. Min	Strongly 45m off
16	Sun	427	747	"	6	Poor	Strong	1?	Nearly flat all day Min 630.	Slow rise before da
17	Mon	428	748	"	6?	"	Medium	Noon?	Rise in AM. Rain static PM	Gradual
18	Tue	428	749	"	-	None	Weak	"	Flat & smooth Min 7P	about a Slow d
19	Wed	428	749	"	530	Good	"	3	Rough. Phase Static. Min 7P	Strongly
20	Thu	429	750	"	6?	Poor	Strong	2?	Rough & Flat. Rain static	short 10-MN.
21	Fri	429	750	"	530	Medium	Medium	2?	Smooth rise & fall. Phase tests Min	Two
22	Sat	430	750	"	-	None	Weak	3?	Nearly flat. Smooth. Min 7P	Slow rise
23	Sun	430	751	"	6?	Poor	"	2	Smooth, Low Gain Min 7P	Low Gain to 320A.
24	Mon	431	751	"	6?	"	"	3	Low Gain AM Min 3P	Slow rise Small
25	Tue	432	751	"	7	"	"	1	Nearly Flat, Rough Min 7	Gradual
26	Wed	432	751	"	6	Good	None	1	Smooth rise. Rain Static PM. Min 6P	Gradual
27	Thu	433	752	"	530	"	"	1	Smooth rise AM. Flat PM. Min 7P.	Rough sur Probably
28	Fri	434	752	"	630	Medium	Weak	2?	Rough & Rain Static Min 930P	Near DT
29	Sat	434	752	"	6?	Poor	"	2	Smooth rise & fall Min 730	DTL to 10 hole open
30	Sun	435	752	"	530	"	Medium	2	Very smooth, Nearly flat. Min 3P.	Slow smoo 1230A+

# Night Record.

## Description

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PM.

DTL to 10P. Gradual rise to 430A. Slow decline after dawn. Quite rough with irregular ripples all night. Weak AR swells near 9P. High DTL both evening + morning.  
 DTL all night long. Null of antenna on source. Moderate swell at 910P, probably SoSo. Quite smooth.  
 DTL all night long. Antenna Null on source. Strong ATM 8-10P. R.S. at MN. Weak AR swells 210 + 435A. Quite smooth.  
 DTL to 245A. Low smooth swell to 530A. SoSo?, AR?, Galaxy? See 12+18/1/57. Rough MN-230A. Probably SoSo. Strong ATM 10-11P centered on 415A.  
 Strong ATM all night. Very rough to 320A. Probably DTL to 125A. Long smooth swell 130-630A centered on 4A. Probably galaxy. See 4/2/57 + 6/2/57. All probably SoSo.  
 Strong ATM to 230A. Probably DTL to 215A with weak AR swells. Long rather rough swell 230-630A centered on 430. Small ripples continue to 10A. Probably SoSo as no discontinuity at SR.  
 Weak SoSo starting 630P; Rapidly stronger at 1220A; continue to 9A + at times following day. Rough.  
 Very smooth. DTL all night. Small smooth rise + fall 230A-SR, centered on 4A. Probably the galaxy.  
 DTL to 10P + 1230-130A. Weak rough AR swells 10P-1230A + 130A-SR.  
 abrupt start 20m after SS. High AR swells to 1230A. DTL to 210A. Moderate smooth rise + fall 210A-SR. Probably the galaxy.  
 Slightly above DTL all night, antenna null on source. Strong ATM 8-11P. Weak AR swells 2A-SR. Probably poor example of predawn rise + fall similar to 10/2/57  
 Very rough. Strong ATM 10P-MN + 330-4A. DTL near 10P, 3A + 430 onward. Long rough swells probably AR.  
 Very rough. Strong ATM 11P-MN. Abrupt rise starts 15m before SS. Irregular ripples + swells all night. Probably AR. Base seems to be rise and fall SS to SR centered on MN.  
 3 antenna alone. Quite rough. DTL to 1230A. Swells begin + persist to 10A. Strong SoSo. Weak RS 1120P, 455A, 730A + 930A. Hole probably closed all night.  
 High rise + fall SS to SR centered on 1130P. Weak ATM.  
 Medium rise + fall SS to SR centered on MN plus weak AR swells period 1 3/4 hr 10P-SR. Swells gradually increase in amplitude + stop abruptly at SR. Good record.  
 Medium rise + fall SS to SR centered on 1230A. Smooth rise but irregular swells on fall.  
 DTL to 910P. Rough rise to MN + fall to 215A. Smooth rise to 445A + slight decline to 630A plus long tail. Probably the galaxy near MN and SoSo in AM.  
 Medium rise + fall SS to SR centered on 11P plus rough irregular weak AR swells.  
 Strong SoSo 4P-MN. Drop to DTL near 130A. Weak AR swells to SR.  
 Medium rise + fall SS to SR centered on 1A. Weak rough AR swells MN-SR.  
 Strong ATM 730-10P. DTL to 845P. Rough rise + fall 9P-SR centered on 3A.  
 Very strong ATM 8-11P. Strong ATM 1-5A. Probably very small rise + fall SS to SR obscured by ATM.  
 DTL to 1205A. Weak irregular AR swells to SR. Quite smooth.  
 DTL to 1A. Small rise + fall 1-7A centered on 4A. Very smooth. Low Gain.  
 DTL to 1030P. Small rise + fall 1030P-SR centered on 2A. Weak + rough AR swells 1-5A.  
 Slow rise after SS. Three large AR swells centered on 835P, 1050P + 345A. DTL MN-1A.  
 DTL to 11P. Small rise + fall 2A-SR centered on 4A. Strong ATM near MN.

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