70962 (s)

In reply please quote this No. 51/192/10 and address all communications to the Meteorological Bureau, and not to individual officers.

#### COMMONWEALTH OF AUSTRALIA.

Tasmanian Divisional Office, Bureau of, XMEXEOROLOGICALX BUREAUXMeteorology.

BGX 107 F, G.P.O., HGBART,

16th May, 19 57.

TELEPHONE 49.12

B2834.
Dr. Reber,
Physics Dept,
University of Tasmania.
HOBART, Tasmania.

Thunderstorm Data - August, 1956 - March, 1957.

Dear Dr. Reber,

1. Please find enclosed copies of thunderstorm data supplied to the Electricity Supply Association of Australia for the period August, 1956 to March, 1957.

2. Copies of the summary supplied at the end of each month will be forwarded to you as they become available.

Yours faithfully,

(J. C. LANGFORD), A/g. Deputy Director.

November.	St. Helens.	Lightning to S.E. distant.	Weak frontal passage.
November. 10th	St. Helens.	Thunder hear at Station1040 and in afternoon to West.	Weak frontal passage
November, 22nd.	St. Helens.	Lightning & Rain & thunder 2000 to 2300 to South East.	Weak frontal passage.
	Flinders Is.	Storms on East coast of island 2100 to 2359	
November. 24th	St. Helens.	Thunder storm at 1630 Lightning 2200 & 2359 to South East.	
	Flinders Is.	Thunder overhead - lasting one hour at 1600- active lightning	1500/1800ま5丁紀
	Tasman Is.	Lightning to North approximately 30M/S A	miles
	C. Sorell	Thunder heard to by for the appr. 10 m/s	
	C. Bruny.	Storm at Station 1830 some damage to electrical equipment.	
	Redpa.	Thunder at 1400 to Wand S.W.	
	Waratah	Thunder to S.W. distant at 1600 last-ing 10 minutes.	
	Low Head	Thunder to S.E. at 1530	
	Devonport East.	Thunder to N.E. for about 15minutes at 1520	
	Cambridge	Distant lightning to N.W. & W.N.W. at 2050	
	Maatsuyker	Thunder to S.W.	
	Wynyard	Thunder to N.W. at 1430	
Tovember 25th	Launceston	Thunder at 1345	Strong unstable S.W. stream.

Details

Reason if evident.

Missing returns from Eddystone, Swansea, Oatlands & Zeehan have been requested.

Thunder Norm Return - Wovember 1956

Date

Station

Weather Bureau, HOBART, Tas.

## Thunderstorm Data - Tasmania - August, 1956.

Date.	Station.	Details.	Reason, if evident.
6th	Devonport.	Thunder heard to N.W. at sea.	
7th	Lanceston.	Thunder heard to N.W. at 2120.	Frontal Passage.
	Tasman Is.	Thunder heard to North at 0445.	и и и
8th	Waratah.	Thunder from S.E. for about 2 hour at 0600.	u u
	Stanley.	Thunder heard from sorm to S.W. 0300 to 0500.	n n
	Flinders Is:	Thunder to West of station.	11 11
9th.	Western June	t. Thunder from storm to West at 1150.	Fronts and Cyclonic
	Low Head.	Thunder at 1155 to N.W. of station preceded by hail- storm (short duration).	Activity.
	Red pa.	Thunder for 4 hour at 0245 and between 1000 and 1100 to West (short duration).	
	Eddystone Pt	.Thunder heard from West at 1800.	11
	Wynyard.	Thunder heard from N.W. at 1015.	ii ii
2-	Swan Is.	Lightning and little Thunde to South and West at 1930.	r u u
10th.	Currie.	Thunder heard to N.W. 1015.	
13th.	Devonport. Waratah:	Lightning to North 2300. Thunder from S.E. and heavy rain 0630 - 0900.	Frontal passages.
	Hobart.	Lightning to South at 2045.	11 11
	Zeehan. Red pa.	Thunder & Lightning from 98 Thunder to W.S.W. 0400	00.
	Tasman Is.	Lightning to S.E. 2030.	H H
		s. Thunder to N.W. at 1100.	H H

# Thunderstorm Data (contd).

Date.	Station.	Details.	Reason if evident.
14th	Devonport. Launceston. Flinders Is.	Lightning at 0700 & 1000 E Loud thunder to N.W. 0945. Thunder at station with rain	rontal Passages.
	FIInders 18.	and hail.	11 11
	Cape Sorell. Western Junct.	Thunderstorm observed to N.W. Thunder to N.E. and rain	" "
		squalls 0820 to 0930.	11 11
	Tasman Is. Low Head.	Lightning seen to S.W. 0000. Thunder heard with hail and lightning for 20 minutes at 0550 and of short duration at	" "
		0815.	ii ii
	Zeehan.	Thunder heard from storms to	
		West.	11 11
	Eddystone Pt. Redpa.	Faint thunder to West 1050. Thunder to Northwest from	" "
	Maatsuyker. Is.	0740 to 0810. Thunder to N.W. at 1100.	n 0
23rd.	Cape Bruni.	Very loud and prolonged thunde heard about 4 miles to N.N.E. at 1845.	s.W. stream.
	Eddystone Pt.	Lightning seen to East at 1930	
24th.	Red pa.	Thunder to N.W. from 1115 to 1200.	n n
	Tasman Is.	Thunder heard to S.W. about 00	000 Frontal passage.
27th.	Maatsuyker Is.	Thunder to Northwest at 0445.	11 11
29 th.	Devonport.	Thunder from distant storm to North at 1700.	
	Stanley.	Thunder from storm from N.W. 1215 to 1300.	No. 44 Au Au
	Low head.	Thunder to N.W. with hail at 1600.	

Weather Bureau, Hobart, Tas.

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### Thunderstorm Data - Tasmania. September, 1956.

Date.	Station.	Details.	Reason, if evident.
7th.	St. Helens.	Thunder heard to West from 1730 to 1800.	[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[
	Eddystone Pt.	Lightning to East at 2030.	23
10 th	Western Junction	n. Thunder to N.E. faint to moderat	Unstable southeasterly e. stream.
22nd	St. Helens.	Faint thunder to S.W. and distant lightning at 1535	Weak frontal passage.
	Thunder	storm Data - Tasman	ia.
		October, 1956.	
2nd	St Helens.	Possible thunder 2300/0100.	Unknown.
10 th	Maatsüyker Is.	Faint thunder to East 0815.	
	Low Head.	Lightning distant lightning likely damage property a 1900.	to
	Flinders Is.	Thunder at 1600 o	ver- "
	Stanley.	Lightning to N.W. night.	at " "
11th	Low Head.	Heavy thunder at	0550
	Launceston.	Thunder faintly tat 1445.	o N.W.
13th	Cape Sorell.	Thunder to N.W. a 10 miles for appr 15 minutes, 2015.	

14th	Flinders Is. Low Head.	Thunder overhead at 0300. Distant lightning at 0300.	Frontal	passage.
18th	Low Head.	Thunder to S.E. 1400-1800.	Cyclonic	Activity.
21st	Maatsuyker Is.	Loud thunder to N.W. at 1800.	Frontal	passage.
22nd	Low Head.	Lightning at a distance to North.	Frontal	Passage.
	Eddystone Pt.	Thunder to West 2220.	н	n ·
	Swan Is.	Very severe thunderstorm to South at 2330	"	11
23rd.	Tasman Is. Low Head.	Lightning to East of station. Lightning at distance to North.	Frontal	passage.
	Flinders. Is.	Lightning likely to damage property at the station 0300	· ·	" -inoi
		Thunderstorm Data - Tasmenia. November, 1956		
2nd.	St. Helens.	Lighning to SE. distant.	Weak fron	tal passage
Oth.	St. Helens.	Thunder heard at Station 1040 and in afternoon to west.	11	и и
22nd.	St. Helens.	Lightning & Rain & thunder 2000 to 2300 to South Hobart.	u u	
	Flinders. Is.	Storms on East coast of island 2100 to 2359		
24th.	St. Helens.	Thunder storm at 1630 Lightning 2200 & 2359 to Southeast.	Pronounce passage.	d frontal
	Flinders Is.	Thunder overhead - lasting one hour at 1600 - active lightning.	1500/18	OOK.
	Tasman Is.	Lightning to North approx. 30 miles.		
	C. Sorell	Thunder heard to N.W. for hours approx, 10 miles.		
	C. Bruny.	Storm at Station 1830 some damage to electridal equip.		
	Redpa.	Thunder at 1400 to W. & S.W.		
	Waratah.	Thunder to S.W. distant at 1600 lasting 10 minutes.		

Date.	Station.	Details.	Reason, if evident.
24th.	Low Head.	Thunder to Southeast at 1530.	
	Devonport. East.	Thunder to Northeast for about 15 minutes at 1520.	
	Cambridge.	Distant lightning to Northwest & Westnorth- west at 2050.	
	Maaysuyker	Thunder to Southwest.	
	Wynyard.	Thunder to Northwest at 1430.	
25th	Launceston.	Thunder at 1345.	Strong unstable Southwest stream.

#### Thunderstorm Data - Tasmania. December, 1956.

Missing returns from Eddystone, Swansea, Oatlands and Zeehan have been requested.

2nd.	Stanley	Slight Thunderstorm at 1520 to West.	Frontal	Passage.	
	Redpa	Distant thunder at 1400 to West and Southwest.	ıı	11	
15th,	Flinders Is.	Thunder (slight) at 1500.	17	Ħ	10 mg
19th.	Tasman Is.	Lightning to East at 2100 at considerable distance.	n	11	
24th.	Cambridge	Lightning to Southeast 2300 to midnight (distant).	li .	u	
25th	Cambridge:	lightning to Southeast 0001 to 0100. Lightning to North and Northeast of station. 0001.		"	
26th	Swansea.	Lightning at 1440.	· ·	n .	

Missing returns from Zeehan, Maatsuyker, Cape Sorell and Western Junction are being requested.

Supleme	ntary Reports -	November - Swansea & Edd	lystone Nil return at Oatlands.
2nd.	Eddystone Pt.	Lightning to Southeast 2030.	Frontal Passage.
3rd.	Eddystone Pt.	Thunder to Northwest at 1330.	Cyclonic Activity.
4th.	Eddystone Pt.	Lightning to Northeast at 1830.	Cyclonic Activity.
5th.	Swansea.	Thunderstorm with hail date doubtfuly.	
22nd.	Eddystone Pt.	Lightning to South 2000	
	Swansea.	Thunderstorm with hail at 1600.	Weak frontal passage.
24th.	Eddystone	Thunder at 1630. Light- ning to East later.	Frontal passage.
	Tr	nunderstorm data - Januar	 ry. 1957.
6th	Hobart.	Thunder at 1805 short shower.	Frontal Passage
	Springs.	Thunder at 1745 from Northwest and hail shor	Frontal Passage.
23rd.	Maatsuyker.	Thunder at 2100.	Frontal passage.
24th.	Cambridge.	Lightning to far North- east at 005K.	Frontal passage.
26th.	Cambridge.	Lightning to South and Southeast 0001 to 0200K	Frontal passage.
Supplem	entary Reports -	December, 1956 Maata Weste	suyker. Island and ern Junction
7th	Maatsuyker.	Faint thunder to the East.	Frontal Passage.
19th	Maatsuyker.	Thunder to West 2100-2200.	Strong Southwest circulation.
20th.	Maatsuyker.	Loud thunder to West.	Some minor frontal passages.
			The second secon

Maatsuyker. Faint thunder to East.

21st.

## Thunderstorm Data. - February, 1957.

Date.	Station.	Details.	Reason	if evident.
2nd.	Springs.	Thunder to Northwest at 1515.	Frontal	Passage.
	Swansea.	Thunder to Nor-Nor- west about 10 miles at 1.55 (am on 3rd).	"	u
	Oatlands.	Thunder to North at 1600	n.	
	Flinders Is.	Storm on Eastern half of Island (brief) 2000.		
	Tasman Is.	Thunder few miles to West (loud) at 1625.		
	Cambridge.	Slight thunder at 1600.	.11	11
	Cape Bruny.	Thunder at 1300.	11	H-
	Hobart.	Thunderstorm with heavy rain at 1530.	11	H
3rd.	Maatsuyker	Thunder at 1500 to South (possibly on 2nd).		South to
6th.	Redpa	Thunder at 1100 moving East to West to 1345.	Strong I stream.	Nor theas t
	Stanley	Thunder during the afternoon.		и
	Low Head.	Thunder to North at 0100	- 11	11
	Wynyard.	Thunder to East at 1530.	11	11
7th	Springs.	Thunder to Northwest at 1220.		
10th.	Flinders Is.	Brief storm at 1200	Frontal	Passage.
	Eddystone Pt.	Thunder distant to West 1200 to 1230.	11	и
14th	Zeehan.	Thunder to South-South- West distant continuing 4 hours at 2100.	n-	11
	Redpa.	Thunder moving Northwest to Southeast 2015 to 2345.	u	n e
	Stanley.	Lightning only, moving Nor- Nor-west to Southwest.	r- "	"
	Cambridge.	Lightning West 2200.	17	
	Maatsuyker	Thunder to Southwest (fair at 2000.	nt) "	n .
15th.	St. Helens.	Thunder distant from North	1- 11	"
	Flinders Is.	Thunder 1300/1400.	11	u -
24th.	Maatsuyker.	Thunder to West at 1930.	unstable stream.	Southwest

Thunder storm Data. February, (contd).

Date.	Station.	Details.	Reason	if evident.
27th.	Maa tsuyker.	Thunder faintly to west at 1100.		
28th.	Springs.	Lightning to East 2000	Frontal	Passage.
	St. Helens.	Thunder from North at 1235 - no lightning observed.	_ " _	"
	East Devonport.	Thunder to Northeast at 0930.	n	11
	Low Head.	Local Thunder to North- east at 0900 to 0920.	11	
	Cambridge.	Lightning distant to East- North-East at 2200K.	- "	
	Cape Bruny.	Thunder to West about 6 miles at 1400.	it	
	Eddystone.	Thunder moving Northwest to Southeast 1230 to 1250.	11	"

Supplementary Nil returns from Low Head and Currie for January, 1957.

Weather Bureau, HOBART, Tasmania. 16th May, 1957.

Date.	Station.	Details. Reason if evident.
1st.	Low Head.	Lightning to N.E. distant Strong N.E.
	Flinders Is.	Thunder heard to East of circulation.  Island - 3 hour duration,  2300.
	St. Helens,	Faint thunder from N.E. during the night. 2000.
2nd.	Low Head.	Lightning to N.E. distant
	Swan Island.	Thunder to East at 0300.
7th.	Stanley,	Thunder at 0100 from S.E. Frontal Passage. lasting ½ hour.
	Cape Sorell.	Thunder to West faint.
	Zeehan.	Thunder a t 0620 for 15 mms. about 3 miles to N.E. moving inland.
	Low Head.	Thunder to N.E. at 0545 and 1000 to 1115.
8th.	The Springs. Cambridge.	Thunder at 1445 to N.W. Strong pre frontal Thunderstorm to W. moving Northerly stream. To S.E. at 1545.
13.th.	Flinders Is.	Thunder overhead at 2100 1 hour duration.
30th.	Hobart.	Thunderstorm in Bruny Is. Frontal passage. after dark.
	Cambridge.	Distant storm severe lightning to S.E. 1900/2100. " "
	The Springs.	Vivid Lightning from East at 1930.
	Cape Bruny.	Thunderstorm overhead from S.W 1715.
31st.	Low Head.	Distant thunder to E. at 2000. Cyclonic activity
	St. Helens.	Thunder from N.W. ceasing in Eastern Bass Strait. approximately 2300.

Missing data from Eddystone, for March has been requested.

#### To all observers :

The thunderstorm map for Tasmania, for 1956, is attached for the information of Observers. It will be noticed that two figures are shown adjacent to the place names. The first figure is the progressive annual average for three years, and the second figure refers to the year 1956. The histograms show the monthly distribution of thunderstorm days at typical centres throughout the State.

This information is being studied together with data on the number and severity of lightning strokes to ground so as to provide reliable information which will be of considerable importance in the design of electricity transmission systems.

The contribution of Observers throughout Tasmania is appreciated by the Committee responsible for the work in this State, who look forward to your continued interest and support. The new form (Form A/1956) provides columns for all relevant information, and Observers' remarks in each column are helpful in studying the results. It is particularly important that a return should be submitted for every month, even if no thunder is heard.

(M.R. Dunster)

<u>Chairman</u>

State Lightning Committee

RSR/CJC. 3/4/57,