

# SUPPLEMENT

TO THE

# NEW ZEALAND GAZETTE

OF

THURSDAY, 22 JANUARY 1987

*Published by Authority*

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WELLINGTON: FRIDAY, 23 JANUARY 1987

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# CLIMATOLOGICAL TABLE FOR NOVEMBER 1986

NEW ZEALAND METEOROLOGICAL SERVICE

CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for November 1986

Station	Height of Station Above M.S.L.	Air Temperature in Degrees Celsius								Rainfall in Millimetres					Bright Sun-shine Hrs
		Means of		Mean of A and B	Difference From Normal	Absolute Maximum and Minimum				Total Fall	No. of Rain Days	Difference From Normal	Maximum Fall		
		A Max.	B Min.			Maximum	Date	Minimum	Date				Amount	Date	
Metres	°C	°C	°C	°C	°C	°C	°C	°C	mm	mm	mm	mm	mm		
Cape Reinga	191	19.1	12.6	15.9	+0.4	21.8	21	10.5	2	52	10	-11	26	11	..
Aupouri Forest	69	20.0	12.6	16.3	+0.1	22.4	18	9.5	30	47	9	-37	16	11	..
Kaitaia	8	21.1	10.9	16.0	..	25.0	6	6.5	30	62	9	..	22	11	..
Kaitaia	85	19.9	11.7	15.8	..	23.5	6	7.0	30	65	12	..	24	11	215
Kerikeri M A F	79	21.3	10.6	16.0	..	24.9	6	5.6	30	50	18	..	16	11	..
Kerikeri Downs 2	74	20.7	10.5	15.6	..	24.0	6	6.1	30	39	17	..	13	11	..
Kerikeri Aero 2	150	21.2	10.6	15.9	..	24.5	6	7.0	21	44	11	..	11	19	..
Waiotemarama	229	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Waipoua Forest	88	19.2	10.4	14.8	-0.1	23.0	11	6.0	1	73	15	-38	15	11	..
Dargaville Maf	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Glenervie Forest	107	20.4	9.6	15.0	+0.4	24.8	11	2.4	21	29	14	-83	6	30	..
Whangarei Aero	37	20.9	12.5	16.7	+0.4	24.2	24	9.0	15	20	11	-69	4	11	..
Whangarei Hospital	29	21.1	11.3	16.2	+0.0	24.6	24	7.2	21	28	13	..	7	16	218*
Marsden Power Stn	3	21.8	12.4	17.1	+0.5	25.0	11	8.2	21	23	10	-68	6	30	..
Pouto	97	18.9	12.5	15.7	..	22.5	11	9.4	30	50	11	..	13	28	..
Leigh 2	27	19.5	13.4	16.5	+0.6	22.2	24	11.1	30	24	8	-61	10	30	218
Warkworth	72	20.0	10.9	15.5	+0.2	23.3	24	4.8	21	50	16	-64	9	25	..
Woodhill Forest	30	19.2	11.4	15.3	+0.0	22.6	22	4.6	30	67	16	-31	24	30	..
Riverhead Forest	28	19.8	10.7	15.3	+0.4	22.6	19	4.4	30	53	11	-48	17	30	..
Kumeu	32	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whenuapai	26	19.9	11.0	15.5	+0.2	23.0	11	5.4	21	51	16	-46	15	30	..
River Park Henderson	4	21.7	10.6	16.2	..	25.3	6	5.0	30	66	16	..	13	24	..
Auckland Albert Park	49	20.3	13.0	16.7	+0.2	22.6	24	10.1	30	55	17	-34	20	30	188*
Auckland Owairaka	41	20.0	11.7	15.9	+0.2	22.3	19	6.5	30	56	15	-40	12	30	..
Port Fitzroy	4	20.4	12.4	16.4	+0.2	21.8	24	7.7	30	30	16	-74	13	30	..
Little Barrier Is	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rotorua Is	30	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Awaroa Valley	30	20.2	11.7	16.0	..	22.6	24	6.2	30	56	13	..	34	30	..
Manukau Heads 2	244	18.5	11.9	15.2	..	21.2	19	9.2	30	49	13	-24	25	30	..
Coromandel	43	20.9	11.9	16.4	..	24.2	22	6.3	30	30	12	..	11	30	..
Whangapoua Forest	4	21.3	11.1	16.2	+0.6	24.1	24	6.4	3	55	8	-55	22	13	..
Thames 2	3	20.7	12.7	16.7	+0.2	23.9	18	9.1	19	44	11	-47	19	30	..
Tairua Forest	3	20.6	15.0	17.8	+2.1	24.4	24	8.0	30	44	9	-60	15	11	..
Ngatea 3	1	21.8	9.0	15.4	..	26.0	6	4.0	30	63	11	..	24	30	..
Paeroa	4	22.0	10.4	16.2	+0.4	26.8	6	5.4	30	48	13	-43	17	24	..
Waihi	91	20.8	9.7	15.3	+0.0	25.0	6	5.5	22	56	12	-74	19	30	197
Te Aroha	18	21.4	11.0	16.2	+0.0	25.1	6	5.5	30	46	13	-54	16	24	..
Katikati	2	21.0	10.0	15.5	..	24.4	10	4.9	30	41	10	..	17	30	..
Tauranga	2	19.9	11.8	15.9	+0.0	23.5	7	8.0	30	70	12	-16	19	30	..
Tauranga Aero	4	20.0	10.3	15.2	-0.2	23.1	7	5.2	30	84	13	-1	27	30	230
Te Puke	91	20.3	8.9	14.6	-0.5	25.3	7	3.9	30	91	13	-40	17	12	227
Rotoehu Forest	72	20.1	7.7	13.9	-0.6	24.5	7	1.3	30	68	13	-38	20	30	..
Whakatane Aero	6	20.5	9.4	15.0	-0.1	27.8	8	4.1	22	74	10	-7	30	30	270
Te Kaha	6	19.9	11.2	15.6	..	22.6	8	7.0	20	53	10	..	20	30	..
Port Ohope	9	20.5	11.1	15.8	+0.0	26.6	8	7.3	21	33	11	..	12	26	240
Kinleith 2	383	18.6	8.2	13.4	-0.3	23.8	6	3.2	30	59	12	-86	28	24	..
Tikitere	338	18.3	8.8	13.6	-0.1	24.8	6	4.9	30	99	13	..	24	11	..
Kawerau	30	21.9	10.4	16.2	+0.2	29.0	8	4.7	21	67	12	-40	16	24	..
Te Teko	8	22.4	10.0	16.2	+0.6	28.9	7	4.7	30	49	11	-52	13	30	212
Rotorua Aero 2	287	19.3	8.2	13.8	-0.2	26.4	6	2.7	30	67	13	-30	22	30	214
Waiotapu Forest	435	18.3	7.8	13.1	+0.0	26.0	6	1.5	21	70	14	-36	23	30	..
Atiamuri Power Stn	253	20.4	7.5	14.0	+0.0	26.6	6	1.5	21	66	13	-59	28	24	..
Kaingaroa Forest	544	18.1	6.3	12.2	-0.4	28.0	22	0.0	30	65	10	-50	20	24	..
Murupara	198	20.6	7.7	14.2	-0.4	27.5	6	2.1	30	80	10	-17	33	24	..
Ohaaki	350	19.9	7.2	13.6	..	25.9	6	0.9	22	63	15	..	22	24	..
Wairapukao Forest	437	19.1	5.1	12.1	-0.6	26.1	6	-2.6	22	61	11	-48	21	24	..
Taupo Nzed	376	19.5	..	..	..	27.1	6	..	..	57	14	-34	30	24	219
Wairakei Power Stn	342	19.8	7.6	13.7	-0.1	26.5	6	0.5	30	44	14	-51	12	24	..
Wairakei Research Stn	402	19.8	6.5	13.2	+0.1	27.0	6	-0.5	30	46	14	-50	12	24	..
Minginui Forest	366	19.3	6.3	12.8	-0.4	26.4	7	-0.5	30	79	11	-50	19	12	..
Taupo Aero	400	18.2	6.7	12.5	-0.9	25.5	6	1.0	20	50	15	-36	17	24	..
Waimihia Forest	762	15.8	5.0	10.4	-0.6	22.6	6	1.0	22	81	15	-60	34	24	..
Opotiki	6	19.8	10.1	15.0	-0.1	24.2	8	5.5	20	94	9	-1	44	30	248
Waimana	37	21.1	8.6	14.9	-0.2	28.5	8	2.0	21	55	11	-66	13	30	..
Matawai Maf Edl	580	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Auckland Mangere	4	20.0	12.9	16.5	+0.5	22.5	18	7.6	30	40	13	-58	9	30	206
Auckland Airport	8	19.7	12.8	16.3	+0.3	23.4	24	7.7	30	45	12	-38	18	30	217
Ardmore	30	20.2	10.3	15.3	+0.2	23.0	18	6.0	1	64	13	-36	13	30	..
Pukekohe Maf	82	19.7	10.8	15.3	+0.3	22.3	11	5.8	30	55	14	..	19	30	165
Maioro Forest	52	19.6	11.5	15.6	+0.3	24.4	22	6.0	30	35	11	-64	11	30	..
Hunua	122	19.7	9.4	14.6	..	22.5	18	3.8	30	88	15	..	30	24	..
Maramarua Forest	38	20.5	9.3	14.9	+0.2	24.5	6	4.3	30	62	10	-31	18	30	..
Te Kauwhata Maf	32	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Huntly Nzed	34	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ruakura	40	20.2	9.5	14.9	+0.2	24.6	6	3.9	30	56	15	-42	23	24	229

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		Means of		Mean of A and B	Difference From Normal	Absolute Maximum and Minimum				Total Fall	No. of Rain Days	Difference From Normal	Maximum Fall		
		A Max.	B Min.			Maxi-mum	Date	Mini-mum	Date				Amount	Date	
Metres	°C	°C	°C	°C	°C	°C	°C	mm	mm	mm	mm	Hrs			
Whatawhata	104	19.4	9.8	14.6	+0.0	24.2	22	3.9	30	91	15	-32	23	24	203
Hamilton Aero	50	20.6	8.1	14.4	+0.1	25.0	6	2.0	30	58	12	-34	22	24	..
Cambridge	76	21.0	8.7	14.9	+0.4	26.5	6	4.7	10	68	13	-23	34	24	..
Mokau Mohakatino Stn	46	17.9	11.6	14.8	+0.2	20.9	19	8.6	30	110	14	-36	36	30	..
Arapuni Power Stn	123	20.7	8.9	14.8	-0.2	25.7	20	3.7	30	62	14	-64	26	24	..
Waikeria	46	20.6	8.8	14.7	+0.3	25.5	6	3.0	30	61	10	..	24	24	..
Te Kuiti Wepb	61	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Wairere	122	19.1	9.1	14.1	..	24.5	6	3.9	21	84	15	-49	33	30	..
Pureora Forest	549	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mangakahu Valley	397	19.4	7.0	13.2	..	25.0	5	2.1	21	87	12	..	28	30	..
Taumarunui	171	20.7	8.6	14.7	-0.1	28.0	6	3.2	30	121	19	-13	28	24	165
Tokirima	152	20.1	8.2	14.2	..	27.2	6	2.8	20	104	15	..	34	30	..
Omata	61	18.5	11.5	15.0	+0.5	21.1	18	9.5	18	72	12	-53	21	30	..
New Plymouth	55	19.2	10.7	15.0	+0.6	23.0	21	6.8	29	81	13	-59	19	23	..
New Plymouth Aero	27	18.2	10.5	14.4	+0.3	21.7	18	5.6	29	71	13	-55	21	30	229
North Egmont	955	13.6	5.8	9.7	..	21.1	7	3.1	11	361	19	..	122	23	..
Te Wera Forest	180	18.7	7.7	13.2	+0.2	23.8	6	0.7	20	98	..	-72	21	23	..
Lower Retaruke	223	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Turangi	366	18.8	7.2	13.0	-0.5	26.3	6	1.5	20	83	16	-55	24	30	186
Mt Ruapehu Chateau 2	1097	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mt Bruce Res	305	17.3	7.6	12.5	+0.0	24.4	6	0.7	22	97	16	-95	22	30	..
Waingawa	114	19.9	7.7	13.8	+0.0	26.6	6	2.5	16	46	11	-27	16	30	218
Kopua	311	17.9	8.4	13.2	-0.1	23.4	6	5.5	16	43	10	-30	22	30	..
Waipukurau Aero	137	19.7	7.0	13.4	-0.6	25.4	6	0.9	30	42	10	-12	24	30	..
Dannevirke	207	18.3	8.7	13.5	-0.3	23.3	6	4.9	6	39	14	-40	20	30	145
Porangahau	8	19.0	8.9	14.0	..	24.5	7	3.7	16	56	12	..	37	30	..
Castlepoint Light	3	18.6	11.3	15.0	+0.1	22.2	7	5.5	16	72	8	+18	17	26	..
Ngaumu Forest	244	18.6	7.1	12.9	+0.0	26.5	6	-0.5	16	64	9	+7	29	30	..
Tauherenikau	43	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Waiorongomai	21	18.3	9.6	14.0	+0.3	25.0	6	2.8	21	68	12	-55	17	25	..
Martinborough	30	20.4	8.3	14.4	..	27.0	6	2.5	16	36	10	..	13	25	216
Cape Palliser	10	18.6	10.5	14.6	-0.1	23.6	7	4.6	16	65	6	-1	35	30	..
Ruatoria	61	20.6	9.9	15.3	-0.5	25.1	8	5.0	2	56	10	-40	14	12	..
Mangatu Forest	182	20.5	8.8	14.7	-0.4	28.8	7	4.2	30	72	13	-2	13	26	..
Gisborne Manutuke	..	20.6	9.5	15.1	-0.3	26.4	8	6.0	14	26	9	-30	13	27	..
Gisborne Aero	4	21.1	9.5	15.3	-0.4	26.7	8	5.1	1	69	16	+14	37	18	226
Waikaremoana Onepoto	643	17.0	7.8	12.4	-0.3	26.5	7	4.5	20	109	14	-25	32	18	..
Wharerata Forest	439	..	..	..	..	..	..	..	..	29	10	..	5	26	..
Tokomaru Bay Maf Edl	244	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Esk Forest	427	18.1	8.4	13.3	-0.2	25.0	7	4.2	20	71	13	-28	20	18	..
Ngamatea Nzfs	885	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kaweka Forest	414	..	8.9	..	..	..	..	5.5	30	56	12	-31	15	30	..
Napier Aero	2	20.2	9.8	15.0	-0.3	26.4	24	5.4	11	27	8	-20	16	30	..
Napier Clive Square	2	20.8	10.6	15.7	-0.5	26.2	24	6.5	30	44	8	+0	22	30	210
Havelock Nth Dsir 2	9	20.9	8.6	14.8	..	25.3	24	3.8	30	39	8	..	14	30	219
Hastings Civic Sq.	16	20.8	9.5	15.2	..	25.6	24	5.5	30	27	7	..	12	30	..
Whakatu	6	19.6	9.2	14.4	..	25.0	24	4.7	30	38	8	..	14	30	..
Gwavas Forest	335	18.6	6.1	12.4	-0.5	25.0	7	1.0	30	69	12	-2	34	30	..
Makaretu	335	18.9	7.8	13.4	-0.1	25.3	6	3.2	30	48	16	-23	22	30	..
Mohaka Forest	286	19.1	8.5	13.8	-0.6	25.4	8	5.2	30	60	12	-22	30	18	..
Wairoa Frasertown	8	20.5	10.2	15.4	-0.6	25.0	8	6.1	30	56	15	-30	12	25	..
Wairoa Hospital	20	20.1	10.7	15.4	-0.5	24.8	11	6.0	30	43	11	-38	18	25	196
Kapiti Is	16	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Paraparamu Aero	7	17.8	10.8	14.3	+0.3	21.1	22	4.2	21	34	12	-57	9	2	195
Bulls Flockhouse	9	18.7	10.0	14.4	+0.4	23.1	22	5.2	20	55	14	-18	26	26	..
Ohakea	48	18.4	10.5	14.5	+0.0	23.6	22	5.1	20	47	14	-23	13	26	192
Kairanga Grasslands	15	18.5	9.5	14.0	+0.1	24.1	22	4.2	20	52	14	-20	18	26	200
Palmerston N Aero	45	18.7	9.9	14.3	+0.4	25.2	22	5.3	30	27	11	-43	8	30	..
Palmerston N D S I R	34	18.6	10.3	14.5	+0.1	24.9	22	5.7	21	32	14	-50	11	30	149
Foxton	9	18.5	10.0	14.3	..	23.0	22	3.6	22	38	14	..	8	2	193
Waitare Forest	3	17.7	9.7	13.7	-0.6	20.5	22	1.3	20	26	8	-42	6	2	..
Levin Maf	46	17.7	10.3	14.0	+0.0	23.0	22	4.8	22	39	12	-52	8	12	152
Titahi Bay Te Pene Av	31	18.2	10.5	14.4	..	21.6	5	3.9	16	36	10	..	7	24	..
Lower Hutt Avalon	15	18.5	9.8	14.2	+0.1	23.8	22	3.4	20	74	13	-33	19	25	..
Wellington Highland P	120	..	..	..	..	..	..	..	..	63	11	..	12	25	..
Wellington Kelburn	125	17.4	10.4	13.9	+0.4	22.4	22	5.5	16	58	11	-35	14	25	230
Somes Is	43	17.3	11.2	14.3	+0.7	21.5	22	7.0	16	49	10	-38	12	25	..
Lower Hutt Gracefield	34	17.8	10.4	14.1	+0.1	23.0	22	5.2	16	80	10	-17	26	26	..
Wainuiomata Coast Rd	82	17.9	9.1	13.5	+0.1	22.9	22	2.0	21	108	11	-9	31	26	..
Wellington Aero	6	18.4	11.6	15.0	+0.6	23.1	22	5.8	21	47	11	-30	13	25	..
Rimutaka Forest	37	18.2	8.7	13.5	..	23.5	22	1.0	21	78	13	..	34	30	..
Kaitoke	223	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Wallaceville	56	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Cape Egmont	8	18.0	11.7	14.9	+0.4	21.5	21	6.1	22	84	16	-16	23	30	..
Stratford Dem Farm	311	17.4	7.7	12.6	+0.1	21.9	6	3.7	20	88	16	-83	17	23	232

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		A Max.	B Min.			Maxi—mum	Date	Mini—mum	Date				Amount	Date	
Metres	°C	°C	°C	°C	°C	°C	°C	°C	mm	mm	mm	Hrs			
Kapuni	173	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Manaia Dem Farm	98	17.3	9.2	13.3	-0.2	19.8	22	1.6	21	54	14	-31	17	30	219
Normanby Edr	122	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Normanby Maf	122	..	8.3	..	..	..	..	0.9	20	52	17	..	10	30	..
Patea Hospital	43	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pipiriki 2	80	20.9	9.7	15.3	..	28.8	6	3.6	20	69	17	..	17	24	..
Ohakune Junction 2	629	16.6	5.9	11.3	-0.2	23.1	6	-1.6	20	..	..	..	..	..	..
Karioi 2	648	16.7	5.3	11.0	-0.7	22.5	6	-0.5	30	77	18	-26	13	26	..
Waiouru Mwd	823	15.4	5.2	10.3	+0.2	22.0	6	0.0	10	104	18	+24	14	27	..
Waiouru Military Camp	823	15.1	4.5	9.8	-0.2	21.5	6	-1.5	20	120	19	+31	20	16	..
Ahu Ahu Valley	85	19.8	9.0	14.4	..	25.6	6	1.8	21	62	14	..	14	26	..
Taihape Rec	433	18.6	7.4	13.0	+0.2	25.3	6	0.1	20	66	17	-12	11	26	..
Taihape Kahui	518	17.6	7.3	12.5	-0.4	23.5	6	1.7	21	57	12	-16	14	26	..
Wanganui Cooks Gdns	22	18.9	11.0	15.0	+0.1	22.2	21	5.0	21	42	13	-28	10	30	..
Wanganui Aero	9	18.7	10.6	14.7	..	21.0	11	3.0	21	47	10	-16	11	30	..
Takaka Kotinga 2	25	19.6	7.5	13.6	..	25.3	8	3.0	30	181	13	..	51	23	234
Totaranui	10	18.6	9.3	14.0	..	22.1	8	5.1	13	129	12	-19	32	30	..
Westport Aero	2	16.8	9.8	13.3	+0.3	21.8	26	5.8	15	116	14	-95	23	2	192
Westport Te Kuha Edl	680	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Cobb Dam	823	15.1	4.8	10.0	+0.4	24.7	6	0.3	30	163	15	-20	36	30	..
Arapito	20	18.0	9.5	13.8	..	22.3	26	5.6	30	165	16	..	55	23	138
Lake Rotoroa	443	..	..	..	..	..	..	..	..	126	..	..	..	..	..
Lake Rotoiti Ranger	634	17.8	5.4	11.6	+0.7	28.0	6	-1.0	30	103	19	-56	22	2	..
Hokitika Aero	39	16.6	9.1	12.9	+0.4	22.0	26	5.3	9	164	14	-107	40	2	182
Punakaiki Rocks	4	17.3	10.7	14.0	..	21.7	26	7.6	29	110	17	..	26	23	..
Reefton Nzfs	198	19.4	8.5	14.0	+1.0	25.6	20	3.1	30	116	17	-75	16	2	..
Barrytown	30	16.8	10.4	13.6	..	21.7	26	7.2	29	121	16	-151	17	23	..
Totara Flat	77	19.4	..	..	..	25.0	18	..	..	104	15	-87	18	23	..
Greymouth Aero	4	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Otira Substation	383	17.1	7.6	12.4	+1.4	25.4	20	2.7	13	236	15	-301	49	24	..
Springs Junction	421	18.5	6.5	12.5	+1.3	26.5	21	0.3	15	140	16	-88	24	13	..
Pukekura	86	17.1	7.7	12.4	..	20.9	26	2.6	15	148	13	..	41	23	..
Harihari Nzfs	45	17.4	8.2	12.8	+0.6	21.5	26	3.7	9	198	11	-190	52	23	..
Okarito	10	16.6	9.0	12.8	..	20.6	26	5.6	29	270	12	..	67	8	..
Franz Josef	155	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Fox Glacier Main Rd	152	16.6	8.2	12.4	+1.0	21.3	26	4.6	13	279	..	-172	..	..	..
Milford Sound	3	16.7	7.5	12.1	+0.5	21.7	26	2.3	14	278	16	-302	65	11	..
Deep Cove 2	3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Puysegur Point	43	14.4	9.6	12.0	..	18.5	19	3.7	30	152	20	-36	39	11	..
Stephens Is	187	15.3	8.6	12.0	-0.6	17.6	25	0.2	30	49	13	-17	14	26	..
Motueka Dsir	8	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tapawera	146	20.4	6.6	13.5	..	28.5	7	1.0	30	56	12	..	14	30	..
Pelorus Sd Crail Bay	13	18.3	11.2	14.8	..	21.3	5	8.3	30	99	14	..	23	23	..
Appleby	17	18.8	9.5	14.2	+0.1	25.1	8	3.9	30	65	11	-9	16	26	..
Nelson Aero	2	18.6	9.5	14.1	+0.1	24.8	8	4.4	30	74	12	-8	16	30	233
Rai Valley	79	19.5	7.9	13.7	+0.2	24.9	6	1.0	30	166	11	-18	55	11	..
Blenheim Research	4	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Wairau Valley	162	19.3	8.3	13.8	..	27.5	7	1.5	21	68	9	..	18	23	..
Blenheim Aero	64	20.3	8.8	14.6	+0.3	32.6	7	2.0	21	44	9	-15	13	11	..
Brancott Valley	64	20.5	8.8	14.7	..	31.0	7	2.7	21	48	8	..	15	12	..
Blenheim Wither Hills	32	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Duntroon	350	..	..	..	..	..	..	..	..	44	10	-24	11	2	..
Grassmere Salt Works	2	18.1	10.7	14.4	-0.1	26.0	8	5.8	21	39	6	+2	20	30	211
Boyle River Lodge	600	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hanmer Forest	387	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Molesworth	893	..	2.9	..	..	..	..	-3.5	30	37	10	-21	9	2	..
Kaikoura Met	108	16.5	10.4	13.5	+0.3	23.8	23	6.9	20	52	9	-5	20	30	211
Arthurs Pass	738	15.4	5.5	10.5	..	24.0	5	1.0	13	191	12	-246	47	23	..
Culverden Mwd	174	19.5	6.6	13.1	..	26.6	7	-1.0	21	45	7	..	14	2	..
Balmoral Forest	198	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Waiiau Lyndon St 2	137	19.9	7.2	13.6	..	28.6	7	0.6	21	60	9	..	19	25	..
Cheviot	85	18.3	7.5	12.9	..	28.8	7	1.1	20	46	8	..	15	2	221
Mt Cook The Hermitage	765	17.9	6.1	12.0	+1.7	26.3	21	-0.1	29	166	16	-220	40	23	166
Mt John	1027	16.2	6.4	11.3	+1.9	23.5	6	-0.5	29	32	7	-19	19	24	..
Craigieburn Forest	914	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lake Coleridge	364	19.6	7.6	13.6	+1.2	26.2	7	3.8	30	49	9	-26	19	24	..
Highbank Power Stn	336	17.3	7.7	12.5	+0.1	24.9	7	1.9	14	97	10	+8	36	25	194
Honorata Substation	192	18.9	7.0	13.0	+0.0	26.8	7	1.1	16	70	11	+4	21	25	200
Winchmore Maf	160	18.0	8.2	13.1	+0.3	26.3	7	3.3	13	99	9	+34	35	24	..
Peel Forest	274	18.1	7.1	12.6	+0.8	26.9	5	2.3	16	92	21	+1	28	24	..
Ashburton Council	101	19.6	9.0	14.3	+0.4	27.2	23	4.9	13	94	8	+28	33	24	175
Waipara	64	19.6	7.3	13.5	-0.4	27.0	9	1.5	15	57	..	+13	23	25	..
Ashley Forest 1	107	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rangiora Nzfs	46	18.3	8.1	13.2	-0.2	29.0	23	1.5	21	94	11	+40	37	25	..
Darfield	195	19.7	7.4	13.6	+0.1	26.0	23	1.9	29	69	9	+2	24	25	..

CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for November 1986—continued

Station	Height of Station Above M.S.L.	Air Temperature in Degrees Celsius								Rainfall in Millimetres				Bright Sun-shine Hrs	
		Means of		Mean of A and B	Differ-ence From Normal	Absolute Maximum and Minimum				Total Fall	No. of Rain Days	Differ-ence From Normal	Maximum Fall		
		A Max.	B Min.			Maxi-mum	Date	Mini-mum	Date				Amount		Date
Metres	°C	°C	°C	°C	°C	°C	°C	mm	mm	mm	mm	mm	Hrs		
Eyrewell Forest	158	18.3	6.9	12.6	-0.7	26.2	5	0.2	21	90	9	+28	44	25	..
Christchurch Aero	30	17.9	8.9	13.4	-0.4	28.0	23	2.9	29	106	9	+57	57	25	214
Christchurch Gardens	7	18.4	9.4	13.9	-0.2	28.0	23	3.5	29	134	9	+88	90	25	..
Christchurch Bromley	9	17.3	10.0	13.7	-0.4	24.1	24	4.5	13	103	9	+60	70	25	..
Mt Pleasant	137	16.6	10.3	13.5	-0.2	24.0	23	6.2	13	143	9	+96	103	25	..
Lincoln	11	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Quail Is Lands & S.	75	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Akaroa Rue Lavaud	3	19.7	8.6	14.2	+0.5	27.6	23	4.5	13	150	8	..	72	25	..
L Tekapo Nzed	683	18.1	5.7	11.9	+0.4	25.0	6	-0.4	30	26	7	-26	16	24	..
Fairlie Riverview Tee	304	19.0	7.2	13.1	..	27.4	5	1.9	16	57	8	..	31	24	..
Twizel Substation	451	21.1	6.1	13.6	..	28.4	6	-0.7	30	22	8	..	13	24	..
Ikawai	70	17.6	7.3	12.5	+0.1	27.0	5	2.0	30	53	3	-3	29	24	..
Geraldine Nzfs	119	19.0	9.0	14.0	+0.8	27.6	5	3.5	13	69	10	-6	33	24	..
Orari Estate	81	18.5	8.3	13.4	+0.6	26.3	5	2.3	21	71	12	-3	44	24	..
Temuka	24	18.0	8.7	13.4	+0.6	25.7	5	2.1	13	68	10	+6	41	24	..
Timaru Aero	26	17.5	8.7	13.1	+0.7	24.8	5	3.1	20	67	9	+12	45	24	..
Timaru 2	17	16.8	9.8	13.3	..	22.0	5	4.9	16	67	7	..	44	24	195
Waimate	61	17.7	9.2	13.5	+0.2	24.5	5	4.5	15	68	8	+4	29	24	..
Benmore Power Stn	253	20.5	9.1	14.8	..	26.0	20	3.5	30	38	..	-5	19	24	..
Aviemore 2	241	19.1	7.7	13.4	..	25.3	5	1.0	30	44	8	-3	19	28	..
Kurow	207	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Knobs Flat	375	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lake Hawea	350	19.0	7.8	13.4	+0.5	25.9	6	3.1	13	46	9	-22	21	28	..
Wanaka	296	21.1	7.8	14.5	+1.6	29.2	6	1.7	15	49	9	-11	13	22	..
Queensbury Mwd	277	20.7	7.6	14.2	..	29.1	6	2.3	13	49	11	..	23	24	..
Bendigo 2	200	22.0	7.4	14.7	..	29.9	6	1.0	15	31	8	..	14	24	..
Nasebury Forest 2	607	17.0	..	..	..	25.7	5	..	..	96	10	..	41	28	..
Oamaru Spey St	5	16.4	9.1	12.8	..	22.8	5	4.5	30	39	6	..	21	24	..
Maniototo School	427	19.0	5.2	12.1	+0.7	27.6	20	0.9	13	53	7	+12	24	28	188
Herbert Forest	61	17.5	6.3	11.9	+0.3	24.8	5	2.0	30	57	9	-24	26	28	..
Palmerston	21	16.9	7.6	12.3	+0.5	24.9	5	1.0	14	36	10	-16	20	28	182
Cherry Farm Hospital	6	17.3	7.8	12.6	+0.7	26.2	5	2.8	13	30	15	-27	12	28	..
Taiaroa Head	72	14.0	9.1	11.6	+0.2	21.0	24	3.4	14	92	16	+28	26	28	..
Invermay Edr	30	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Berwick Forest	18	17.9	7.5	12.7	+0.7	25.8	5	3.2	16	77	16	+6	28	28	..
Dunedin Aero	1	17.8	7.0	12.4	+0.4	25.0	5	1.4	16	70	15	-3	24	28	160
Dunedin Musselburgh	2	15.8	9.6	12.7	+0.2	24.8	5	5.4	14	89	16	+16	28	28	162
Te Anau Po	215	17.9	7.4	12.7	+1.6	25.2	20	-0.3	30	98	13	+0	30	24	179
Manapouri West Arm 2	232	16.2	7.5	11.9	+1.3	26.0	5	1.4	13	248	16	-113	61	11	..
Borland Burn	183	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Queenstown	329	19.3	8.0	13.7	+1.1	28.9	6	2.4	13	61	8	-10	20	28	185
Queenstown Aero	349	18.5	6.6	12.6	+1.0	27.8	6	1.0	15	54	8	+1	22	24	..
Gibbston Nevis Bluff	366	20.6	..	..	..	28.1	6	..	..	52	7	..	25	28	..
Burwood Bush	490	15.9	5.5	10.7	..	24.0	5	-2.0	15	172	13	..	58	24	..
Cromwell Sub Stn	213	21.6	7.8	14.7	..	30.0	6	2.8	15	40	6	+18	24	28	..
Cromwell Climat	213	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Northburn	210	21.3	8.0	14.7	..	30.4	6	2.5	15	40	11	..	17	28	..
Cromwell 2	213	21.4	7.6	14.5	..	29.7	6	2.7	30	44	11	..	24	28	228
Clyde Dam	160	20.7	8.3	14.5	..	29.1	20	2.7	15	37	9	..	14	28	..
Ophir 2	305	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Clyde Dsir	171	21.1	7.3	14.2	..	29.4	20	0.9	15	38	8	..	15	24	..
Alexandra B Council	141	21.8	7.7	14.8	..	31.0	20	1.5	15	31	6	..	16	24	208
Roxburgh Power Stn	110	20.3	7.7	14.0	+0.7	30.0	20	3.0	15	56	10	+12	20	24	..
Etrick No 1	83	19.8	7.1	13.5	..	28.5	20	3.0	16	70	9	..	23	24	..
Etrick No 2	91	19.6	6.8	13.2	..	28.5	20	0.6	30	73	9	..	21	24	..
Beaumont Nzfs	46	18.8	7.6	13.2	..	27.1	5	3.0	30	117	15	+36	32	24	..
Mahinerangi Dam	396	15.1	5.7	10.4	+0.2	23.2	5	1.1	30	115	15	+30	28	28	..
Tapanui	226	16.9	6.8	11.9	+0.2	24.5	5	3.0	30	114	15	+40	31	28	..
Taieri Mouth	15	15.6	7.9	11.8	+0.5	24.2	5	3.4	13	90	15	+20	24	28	..
Tuatapere	27	17.6	7.4	12.5	..	27.7	5	3.0	30	142	15	..	30	28	..
Otautau Nzfs	55	17.9	7.4	12.7	+1.3	27.5	5	3.1	30	99	15	+15	17	12	165
Winton B Council	44	17.5	7.5	12.5	+0.8	25.1	5	2.9	30	93	15	+27	23	28	187
Gore Edr	123	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gore Grasslands Dsir	123	16.9	7.7	12.3	+0.7	24.6	5	3.0	30	112	18	+36	23	28	181
Hokonui Forest	46	17.8	6.7	12.3	+0.3	24.9	5	2.3	30	121	14	+32	28	28	..
Invercargill Aero	0	16.5	8.1	12.3	+1.0	22.9	23	3.8	13	103	17	+14	26	28	174
Tiwai Point	5	15.8	9.8	12.8	+1.0	20.6	20	4.7	27	70	14	-23	18	28	..
Stewart Is	3	15.2	8.5	11.9	+1.4	19.7	1	1.9	14	112	22	+0	27	11	..
Clinton School	120	17.2	7.7	12.5	..	27.5	20	2.6	30	69	15	..	16	13	..
Balclutha Finegand	6	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Owaka	5	17.1	7.6	12.4	+0.7	26.5	5	1.0	16	96	18	+22	14	24	..
Nugget Point	129	14.6	8.4	11.5	+0.6	24.4	5	3.4	13	104	19	+25	18	11	..
Tautuku	40	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Nadi Airport Fiji	15	31.0	21.4	26.2	-0.1	33.7	29	18.5	10	67	8	-76	17	25	206
Rarotonga Airport	7	27.0	21.2	24.1	+0.0	29.1	20	16.2	9	265	15	+110	97	5	205

CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for November 1986—continued

Station	Height of Station Above M.S.L.	Air Temperature in Degrees Celsius								Rainfall in Millimetres				Bright Sun-shine	
		Means of		Mean of A and B	Difference From Normal	Absolute Maximum and Minimum				Total Fall	No. of Rain Days	Difference From Normal	Maximum Fall		
		A Max.	B Min.			Maximum	Date	Minimum	Date				Amount		Date
Metres	°C	°C	°C	°C	°C	°C	°C	°C	mm	mm	mm	mm	Hrs		
Totokoitū, Rarotonga	9	..	..	..	..	..	..	..	..	..	..	..	..	..	
Raoul Is	38	20.8	15.3	18.1	-0.8	22.9	30	11.7	3	164	12	+87	63	17	
Campbell Is	15	10.7	5.1	7.9	+0.7	13.0	24	-0.7	14	75	25	-32	17	6	
Waitangi, Chatham Is	44	14.3	8.7	11.5	+0.0	17.5	29	4.9	2	62	13	+5	19	12	
Kaingaroa, Chatham Is	41	..	..	..	..	..	..	..	..	..	..	..	..	..	
Scott Base Antarctica	16	..	..	..	..	..	..	..	..	..	..	..	..	..	
LATE RETURNS AND CORRECTIONS															
Little Barrier Is 10/1986	2	18.5	12.2	15.4	..	20.6	28	8.7	8	64	17	-45	20	24	
Thames 2 07/1986	3	13.6	5.3	9.5	-0.8	16.4	25	-0.6	23	138	15	+1	49	25	
Tauranga 10/1986	2	18.4	11.4	14.9	+0.8	21.5	26	7.6	8	73	15	-33	20	24	
Wairakei Research Stn 10/1986	402	17.4	7.7	12.6	+1.4	20.7	28	2.7	1	98	17	-2	20	21	
Opotiki 10/1986	6	18.2	9.9	14.1	+0.7	21.0	30	5.2	2	102	15	-11	21	24	
Matawai Maf Edl 09/1986	580	13.5	2.2	7.9	..	18.4	28	-4.6	1	206	19	..	64	15	
Te Kauwhata Maf 10/1986	32	18.6	9.2	13.9	+0.1	22.3	25	2.5	19	99	21	+5	36	24	
Arapuni Power Stn 10/1986	123	18.2	8.8	13.5	+0.4	21.6	31	2.6	19	107	18	-16	25	24	
Mangakahu Valley 10/1986	397	16.1	7.9	12.0	..	19.3	26	3.8	20	155	26	..	25	21	
Lower Retaruke 10/1986	223	17.5	8.0	12.8	+0.7	21.4	25	1.4	1	135	23	+4	22	21	
Mt Ruapehu Chateau 2 10/1986	1097	10.3	3.0	6.7	..	15.0	28	-1.8	1	270	..	..	45	21	
Cape Palliser 10/1986	10	16.8	10.2	13.5	-0.1	22.0	1	4.4	15	112	16	+40	23	8	
Wharerata Forest 10/1986	439	15.8	8.0	11.9	..	21.9	4	6.0	1	65	..	..	15	12	
Tokomaru Bay Maf Edl 09/1986	244	15.3	7.2	11.3	..	20.8	28	2.5	11	223	15	..	92	20	
Hastings Civic Sq. 10/1986	16	19.9	9.6	14.8	..	26.5	25	5.0	17	39	12	..	8	10	
Gwavas Forest 10/1986	335	17.0	6.8	11.9	+1.1	23.8	25	1.1	1	89	15	-3	10	10	
Makaretu 09/1986	335	13.8	4.0	8.9	-0.7	19.1	27	-3.7	1	160	18	+80	84	16	
Makaretu 10/1986	335	17.0	8.0	12.5	+1.0	21.4	25	2.6	2	66	26	-18	12	10	
Ahu Ahu Valley 10/1986	85	17.7	8.9	13.3	..	21.6	25	3.8	1	135	21	..	21	10	
Boyle River Lodge 10/1986	600	14.7	4.9	9.8	..	20.4	25	1.5	20	82	..	..	..	..	
Highbank Power Stn 10/1986	336	14.7	6.9	10.8	+0.0	21.7	3	3.2	20	124	16	+37	35	11	
Lake Hawea 10/1986	350	15.9	6.0	11.0	+0.3	20.5	31	1.6	18	24	9	-46	10	4	
Burwood Bush 10/1986	490	..	..	..	..	..	..	..	..	..	..	..	..	..	
Totokoitū, Rarotonga 10/1986	9	26.4	20.8	23.6	+0.8	28.6	27	17.4	2	205	13	..	103	4	

The "normal" refers to the present site of the instruments. Standard period for normals is 1951-1980. No normals are available for stations with only short records.

\*Indicates that the sunshine recorder is not located at the station but is in the near vicinity.

A rainday is a day with rainfall equal to or greater than 0.1 mm.

Where the extremes of temperature and rainfall have occurred more than once during the month, the date of the first occurrence is given.

## THE WEATHER IN NEW ZEALAND IN NOVEMBER 1986

*General*—This November was drier than normal over much of the North Island, but wetter than normal in most regions of the South Island. It was also slightly warmer in most places.

South-westerlies prevailed over the north of the North Island, while north-westerlies prevailed over the South Island. Wind strengths were generally lighter than usual.

Mean sea level pressures range from almost 1 hPa below normal over the north of the North Island, to 1.5 hPa above normal at Invercargill.

Most farmers reported good pasture and stock conditions this month.

*Rainfall*—November was much wetter than normal at East Cape, and in Christchurch, where total rainfall for the month was just over 200 percent of normal. At Christchurch Airport this was the wettest November since 1967, and the third wettest for over 40 years. 57 mm of the 106 mm was recorded in the 24 hours to 9 a.m. on the 26th, and localised flooding resulted due to the Heathcote River overflowing.

Over much of the North Island rainfall for the month ranged from 50 to 75 percent of normal. Only 40 percent of the normal rainfall for November was recorded at Paraparaumu Airport, and 20 percent of normal rainfall at Whangarei.

*Temperature*—Mean daily temperatures were about normal for November over the North Island. Over the South Island temperatures were about 0.5°C above normal in most coastal areas

(apart from north Canterbury, where they were near normal). In inland Canterbury mean daily temperatures were almost 2°C above normal at The Hermitage, and at Mount John.

Many places on the East Coast of the South Island recorded temperatures of 25 to 30°C on the afternoon of the 5th. A maximum temperature of 32.6°C was reached at Blenheim Airport on the 7th. This was almost as high as the record of 33.9°C for November, which was recorded at Hastings over 35 years ago (30 November 1949). Another high temperature of 31°C was recorded at Alexandra on the 5th.

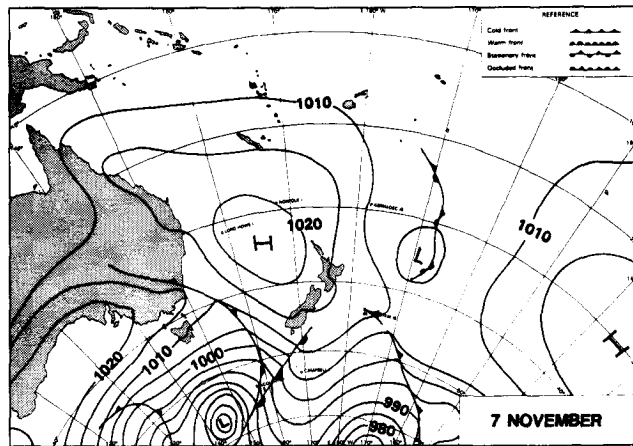
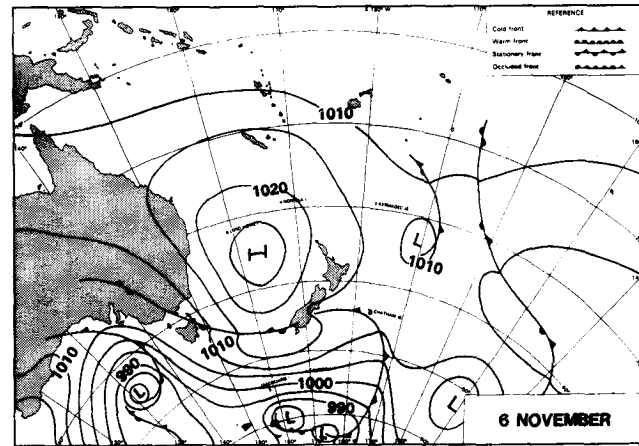
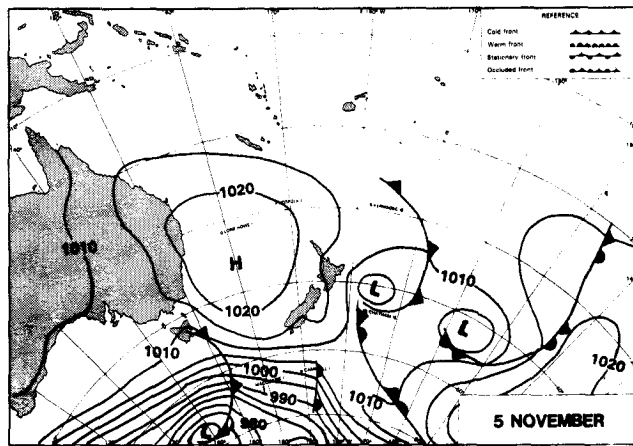
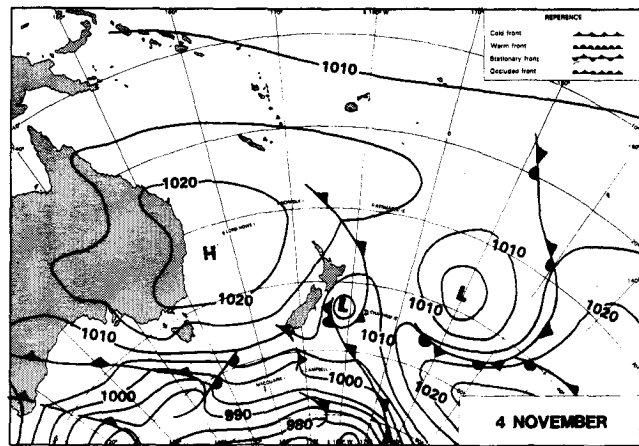
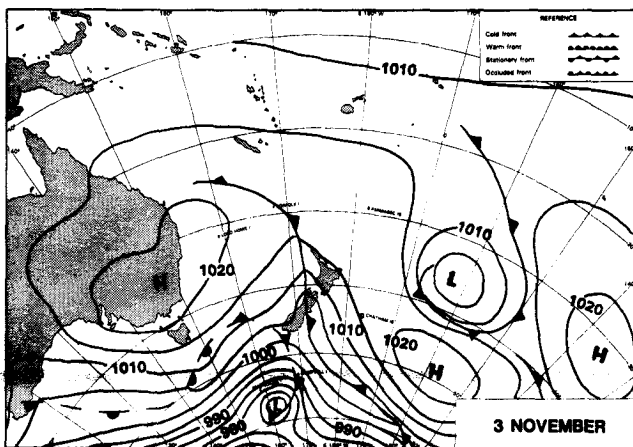
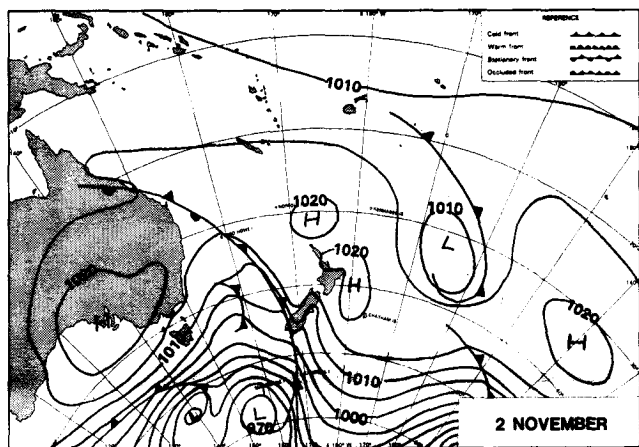
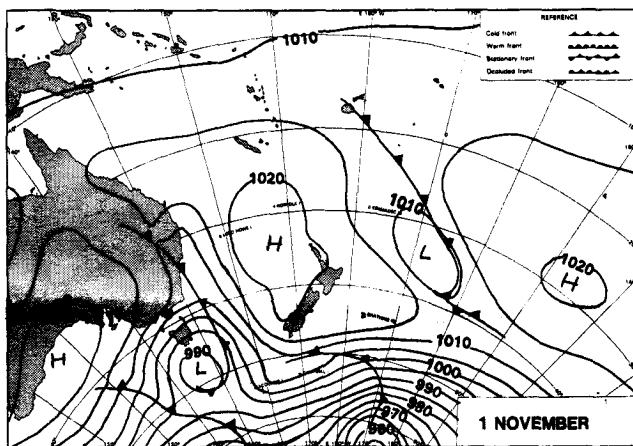
Mean daily maximum temperatures were 1.2°C below normal this month at Christchurch Airport, making the afternoons the second equal coolest there since November 1953.

*Sunshine*—Hours of bright sunshine were near normal in most places. It was cloudier in the Manawatu where about 85 percent of normal sunshine for November was recorded, but sunnier in Taranaki, Eastern Bay of Plenty, Wellington, and the Wairarapa, where total hours of bright sunshine ranged from 110 to almost 120 percent of normal.

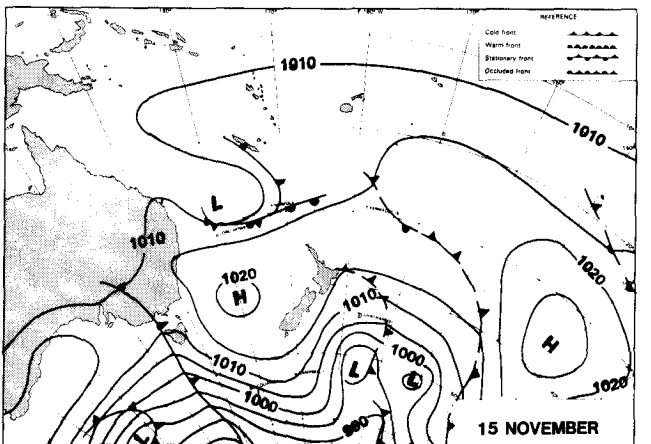
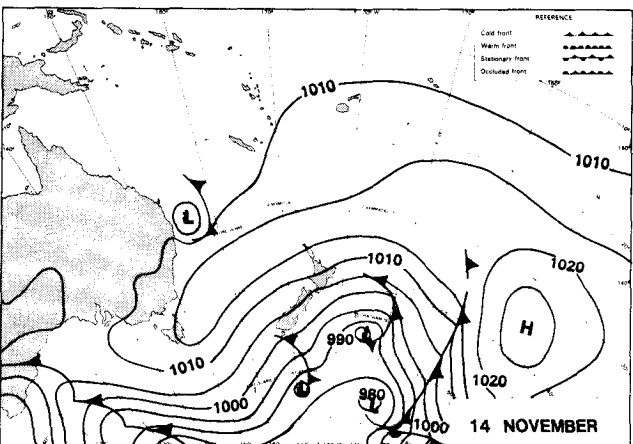
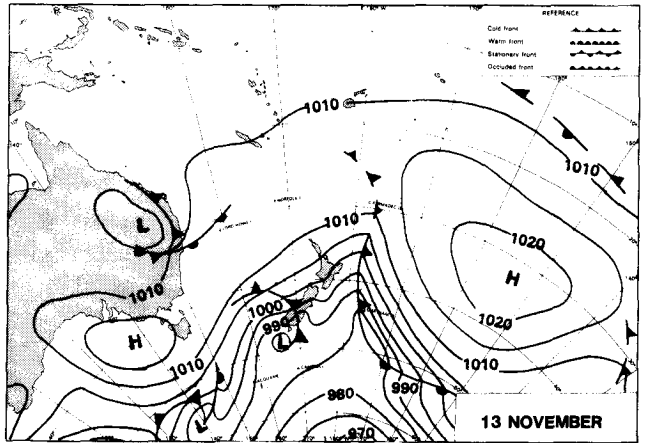
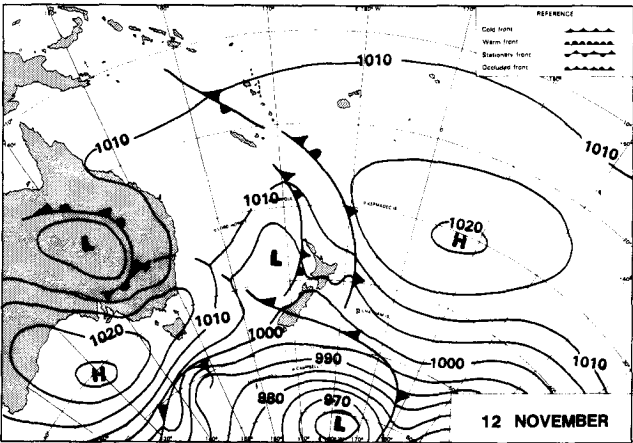
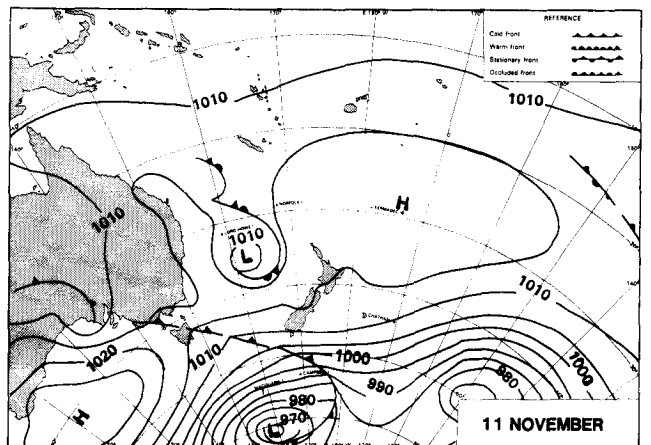
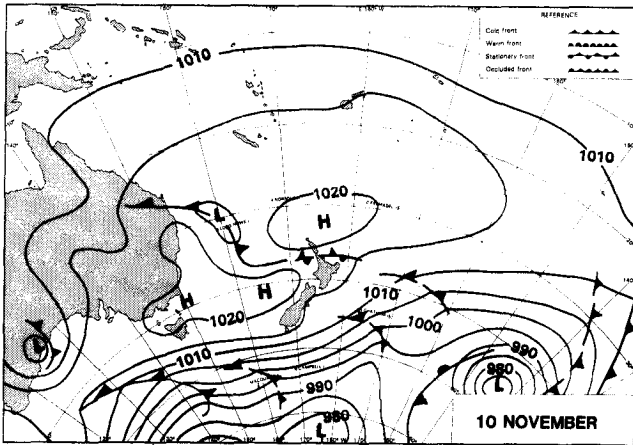
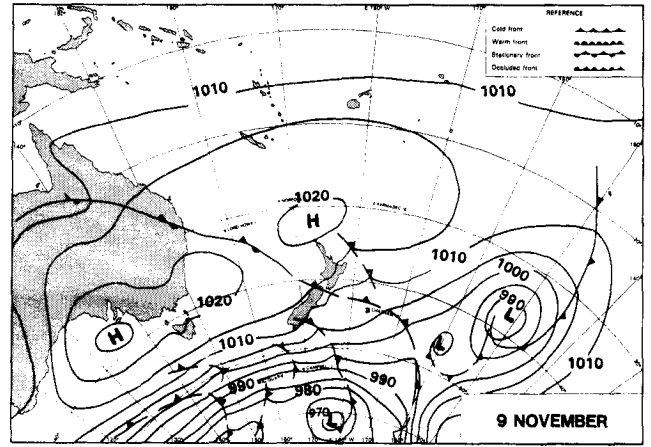
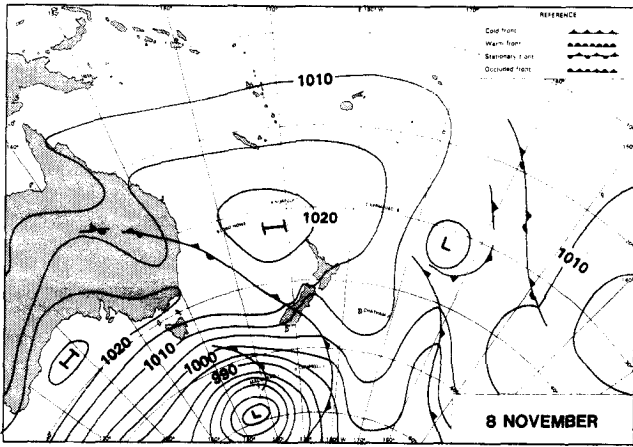
To date this year there have been 10 months with above normal sunshine recorded at Kelburn, Wellington. This is the only station (for which long term normals are available) where this has occurred this year.

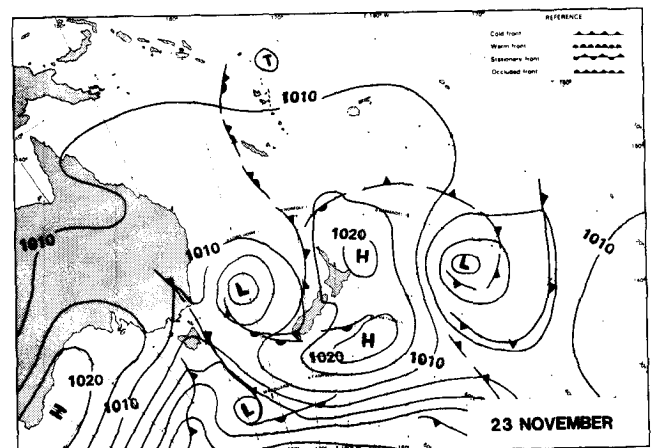
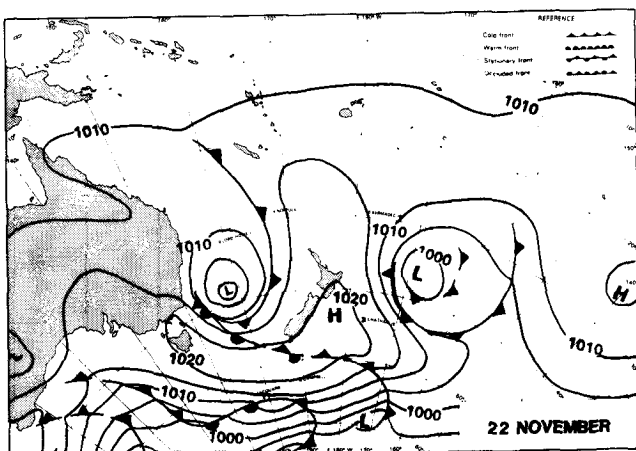
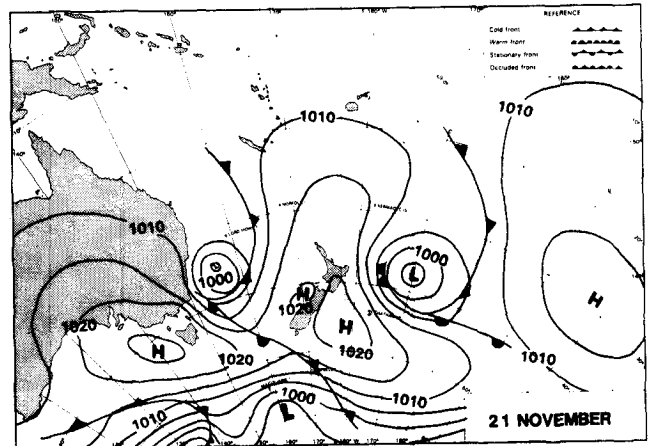
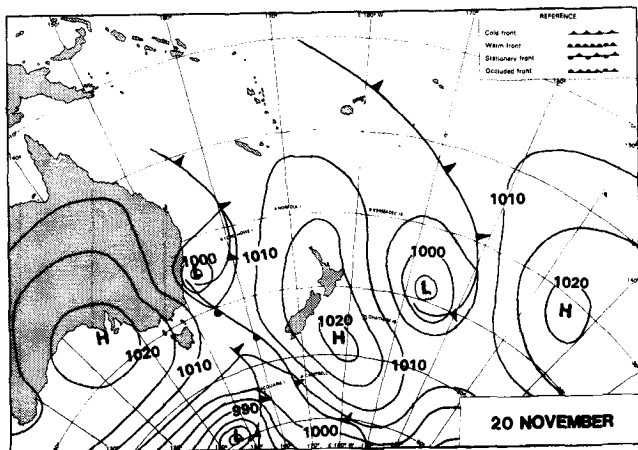
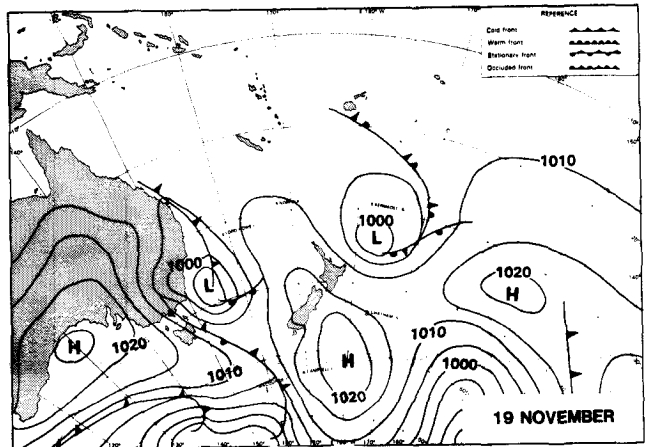
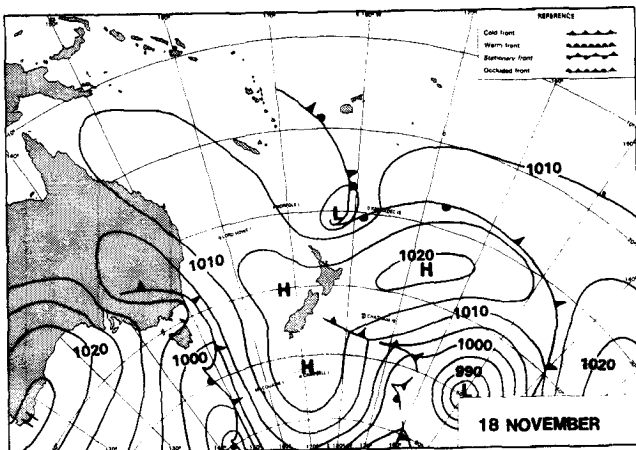
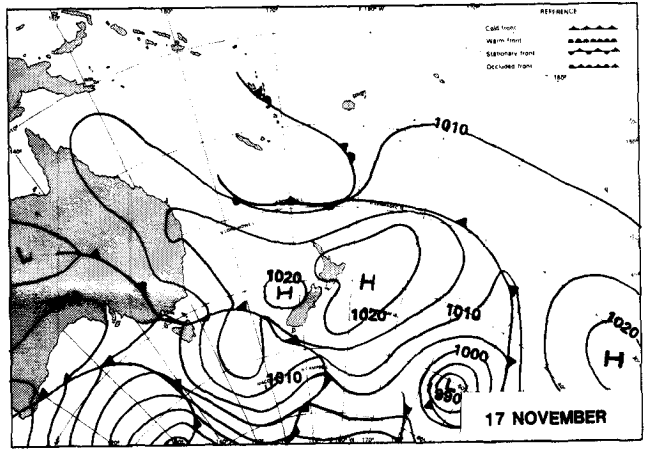
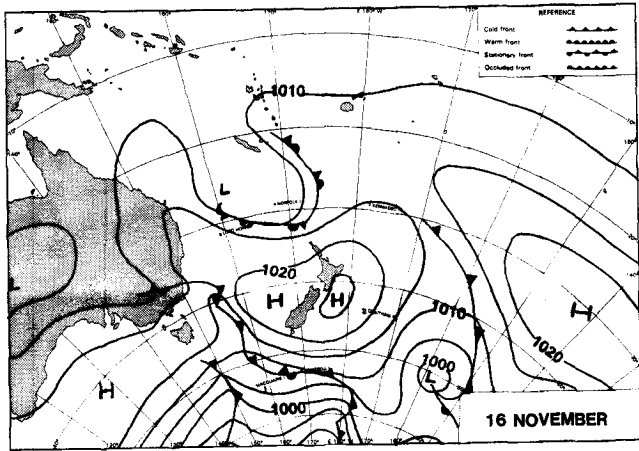
J. S. HICKMAN, Director.

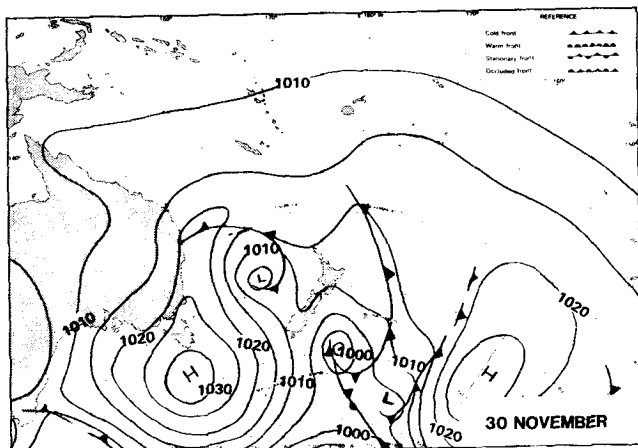
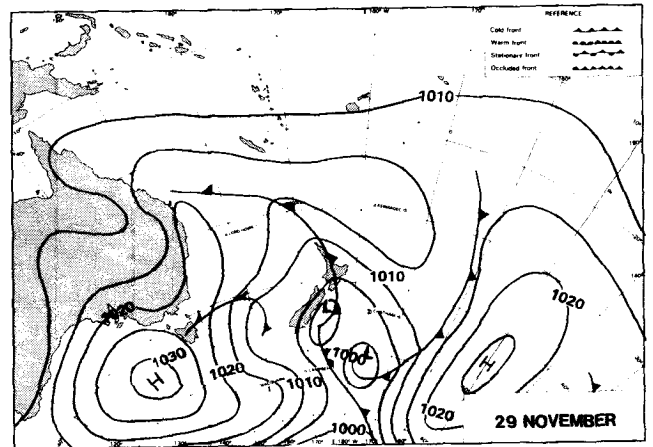
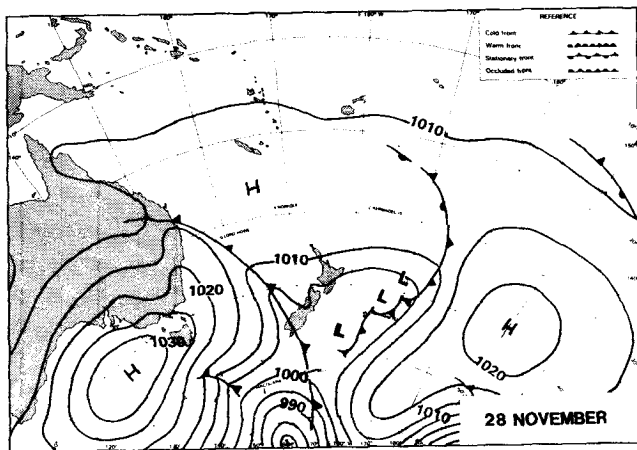
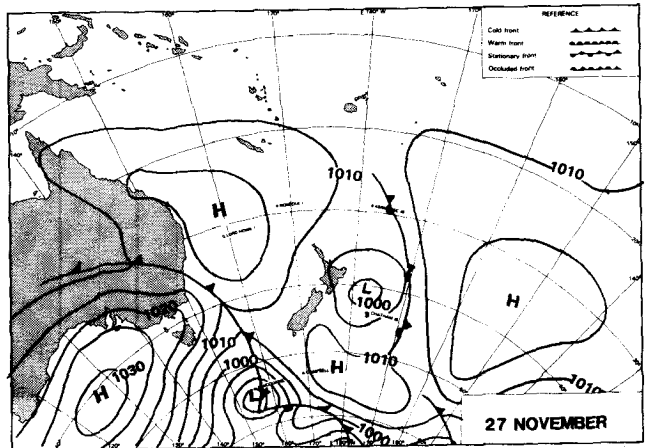
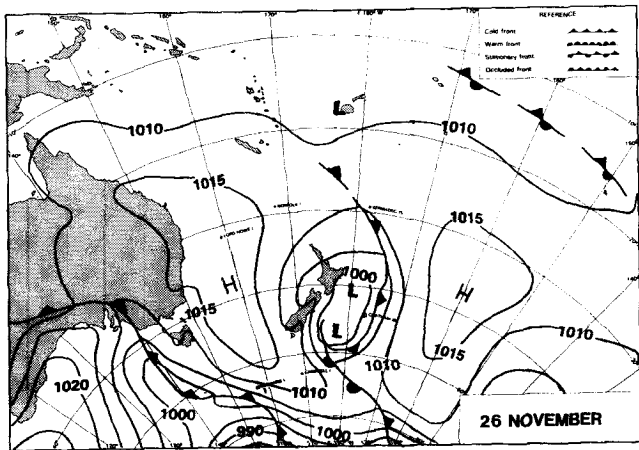
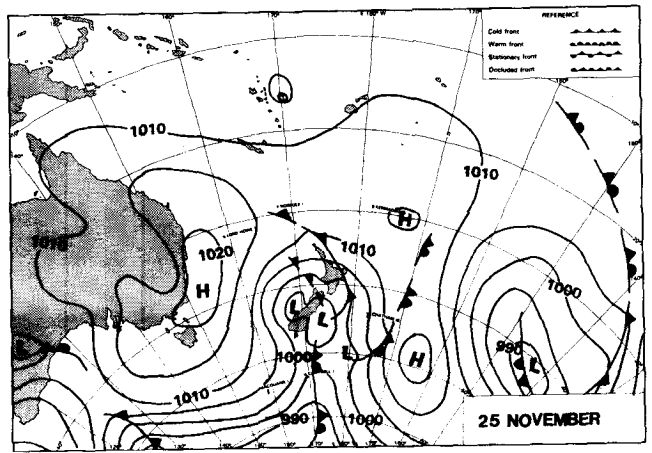
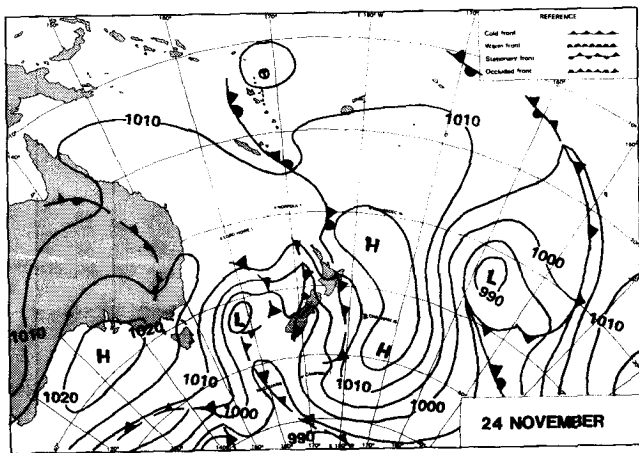
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