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CLIMATOLOGICAL TABLE

FOR OCTOBER 1987

N.Z. Met. S. Pub. 107

NEW ZEALAND METEOROLOGICAL SERVICE

CLIMATOLOGICAL TABLE—*Summary of the Records of Temperature, Rainfall, and Sunshine for October 1987*

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	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		mm		mm	mm		Hrs
Aupouri Forest	69	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kaitaia	8	19.0	11.3	15.2	..	22.5	25	5.8	18	111	17	..	29	28	..
Kaitaia Observatory	85	17.8	11.7	14.8	..	21.0	25	7.9	15	101	17	..	31	28	123
Kerikeri M A F	79	18.4	10.8	14.6	..	21.0	8	5.5	15	189	24	..	48	28	..
Kerikeri Aero 2	150	17.8	10.3	14.1	..	21.0	29	5.0	15	192	20	..	51	28	..
Panguru	5	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kaikohe Dsir Edr	204	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Waiotemarama	229	16.4	10.9	13.7	+0.5	19.6	25	6.8	18	123	17	..	26	13	..
Waipoua Forest	88	18.3	9.8	14.1	+0.6	25.0	1	0.5	18	118	15	−31	21	13	..
Dargaville Maf	20	18.4	10.7	14.6	+0.7	22.3	29	2.4	21	68	..	−35	14	28	117
Glenbervie Forest	107	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whangarei Aero	37	18.3	11.3	14.8	+0.2	23.4	8	5.2	21	172	14	+52	45	16	..
Whangarei Hospital	29	18.7	10.8	14.8	+0.4	24.0	8	4.6	22	187	14	..	57	16	105*
Marsden Power Stn	3	19.6	12.0	15.8	+1.0	24.8	8	5.2	21	131	13	+27	30	29	..
Pouto	97	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Leigh 2	27	17.4	12.2	14.8	+0.4	19.6	27	6.7	19	146	14	+52	48	29	152
Warkworth	72	17.8	10.5	14.2	+0.6	22.1	8	4.5	22	127	16	+15	24	13	..
Woodhill Forest	30	18.3	9.5	13.9	+0.2	21.8	25	2.5	22	82	13	−15	20	9	..
Kumeu	32	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whenuapai Aero	26	18.1	10.6	14.4	+0.8	21.4	8	4.4	22	77	15	−26	19	6	..
Auckland, Rakino Is	60	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Henderson, River Pk	4	19.6	10.2	14.9	..	23.2	26	3.2	22	93	17	..	22	6	..
Auckland Albert Park	49	..	..	..	..	..	..	..	..	80	15	−17	22	6	146*
Auckland Owairaka	41	18.1	11.2	14.7	+0.7	21.7	8	6.5	22	83	13	−18	20	6	..
Port Fitzroy	4	18.2	10.9	14.6	+0.1	20.5	26	5.5	21	166	15	+34	82	16	..
Little Barrier Is	2	17.6	12.1	14.9	..	19.4	26	8.3	20	106	16	−3	37	29	..
Rotoroa Is	30	17.0	12.1	14.6	..	19.2	26	4.9	17	84	10	..	26	6	..
Awaroa Valley	30	17.9	11.5	14.7	..	20.0	26	4.5	22	97	13	..	24	29	..
Manukau Heads 2	244	16.8	10.8	13.8	..	21.3	26	6.4	16	80	17	+7	16	6	..
Coromandel	43	18.7	11.2	15.0	..	22.4	8	4.7	22	139	16	..	38	29	..
Whangapoua Forest	4	19.5	9.5	14.5	+0.6	23.4	8	1.7	8	158	14	+21	41	29	..
Thames 2	3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tairua Forest	3	18.3	9.9	14.1	+0.2	23.6	8	4.0	22	92	11	−39	17	29	..
Ngatea 3	1	19.4	9.7	14.6	..	23.1	26	3.0	23	91	14	..	21	29	..
Paeroa	4	19.6	10.4	15.0	+1.3	22.7	25	4.2	22	66	18	−44	16	13	..
Waihi	91	19.5	10.2	14.9	+1.5	28.0	17	3.6	19	90	16	−79	16	13	134
Te Aroha	18	..	11.0	..	..	..	..	5.2	22	105	18	−21	32	13	..
Katikati	2	18.8	10.1	14.5	..	22.5	8	4.8	22	81	12	..	16	15	..
Waitoa	18	19.2	10.1	14.7	..	22.8	26	5.9	19	96	12	..	19	13	..
Tauranga	2	17.5	11.6	14.6	+0.5	19.8	8	6.5	15	71	12	−35	14	13	..
Tauranga Aero	4	17.5	10.6	14.1	+0.5	19.6	8	4.3	15	64	11	−42	14	13	175
Te Puke	91	17.9	9.1	13.5	+0.2	21.3	8	2.7	15	102	14	−43	25	6	150
Te Puke Edr	91	17.6	8.9	13.3	..	21.2	8	2.6	15	148	15	..	33	6	..
Whakatane Aero	6	18.1	9.7	13.9	+0.9	20.2	3	3.4	15	69	9	−29	23	6	200
Te Kaha	6	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Port Ohope	9	18.2	11.2	14.7	+0.8	20.8	4	5.7	15	23	6	..	15	9	173
Kinleith 2	383	16.2	8.4	12.3	+0.8	20.5	26	3.2	15	143	15	+3	35	13	..
Tikitere	338	15.9	8.9	12.4	+0.5	20.5	26	2.8	15	110	13	..	39	6	..
Kawerau	30	19.2	10.8	15.0	+1.0	22.5	26	1.5	15	145	12	+7	65	6	..
Te Teko	8	20.3	9.6	15.0	+1.4	24.2	26	3.5	15	101	14	−20	35	6	168
Rotorua Aero 2	287	16.7	9.1	12.9	+0.8	21.4	26	2.1	15	97	13	−19	27	6	170
Atiamuri Power Stn	253	17.9	7.7	12.8	+0.8	22.2	26	0.6	17	124	16	+4	26	13	..
Kaingaroa Forest	544	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Murupara	198	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Galatea	190	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ohaaki	350	17.4	7.6	12.5	..	22.4	26	0.2	17	102	15	..	29	15	..
Taupo Nzed	376	16.6	7.6	12.1	+0.6	20.6	26	−0.1	18	105	17	+6	22	13	..
Wairakei Power Stn	342	17.3	7.1	12.2	+0.4	21.6	26	−0.4	18	134	17	+31	30	26	..
Wairakei Research Stn	402	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Minginui Forest	366	17.6	7.0	12.3	+1.1	23.6	26	1.0	22	148	..	+20	44	26	..
Taupo Aero	400	15.8	7.0	11.4	+0.2	19.5	26	−0.7	17	56	15	−47	16	13	..
Waimihia Forest	762	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Opotiki	6	18.0	10.5	14.3	+0.9	21.1	31	4.3	15	103	9	−10	31	6	169
Waimana	37	18.8	8.9	13.9	+0.6	22.8	26	1.5	15	112	11	−31	38	6	..
Matawai Maf Edl	580	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Auckland Mangere	4	18.0	12.1	15.1	+0.9	21.5	26	6.7	22	75	16	−16	20	13	146
Auckland Aero	8	18.0	11.6	14.8	+0.6	21.9	8	7.0	22	82	13	−4	20	13	155
Ardmore	30	18.2	10.5	14.4	+1.0	21.6	8	4.9	22	85	18	−19	18	6	..
Pukekohe Maf	82	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pukekohe Edr	82	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Maioro Forest	52	..	10.6	..	..	..	..	5.5	22	64	10	−37	15	6	..
Hunua	122	17.4	9.6	13.5	..	20.9	26	2.4	22	111	19	..	27	9	..
Maramarua Forest	38	18.5	9.1	13.8	+0.8	22.2	26	3.0	22	76	..	−26	17	13	..
Te Kauwhata Maf	32	18.6	9.9	14.3	+0.5	22.5	26	4.0	22	98	19	+4	24	13	135
Ruakura	40	18.4	9.4	13.9	+1.0	23.2	26	4.3	22	91	16	−6	17	13	140

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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.			Maximum	Date	Minimum	Date				Amount	Date	
	Metres	°C	°C	°C	°C	°C		°C		mm		mm	mm		Hrs
Whatawhata	104	18.0	9.8	13.9	+0.9	22.8	26	3.9	15	100	15	−38	19	13	143
Hamilton Aero	50	18.8	9.3	14.1	+1.6	24.6	26	4.1	22	86	16	−15	19	13	..
Cambridge	76	18.7	9.4	14.1	+1.4	23.2	26	4.3	22	120	17	+31	28	29	..
Mokau Mohakatino Stn	46	16.8	10.6	13.7	+0.5	20.0	28	3.8	16	104	13	−26	25	9	..
Arapuni Power Stn	123	18.4	8.2	13.3	+0.2	23.5	26	2.5	30	125	16	+2	21	1	..
Waikeria	46	18.5	8.8	13.7	+1.1	23.6	26	2.5	17	123	15	..	20	29	..
Te Kuiti Wepb	61	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Wairere	122	17.3	8.4	12.9	..	21.6	26	2.5	17	123	18	−2	21	13	..
Pureora Forest	549	14.8	7.1	11.0	+0.9	19.0	31	1.0	15	130	19	−32	26	13	..
Mangakahu Valley	397	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taumarunui	171	18.5	8.3	13.4	+0.5	23.0	26	1.5	16	149	20	+22	28	9	132
Tokirima	152	18.0	6.7	12.4	..	21.8	31	−1.0	16	156	18	..	36	9	..
Omata	61	16.6	10.4	13.5	+0.4	20.4	31	6.4	15	165	19	+42	52	9	..
New Plymouth	55	16.8	9.5	13.2	+0.3	21.0	31	4.5	18	172	18	+30	49	9	..
New Plymouth Aero	27	16.2	9.9	13.1	+0.6	19.6	31	5.4	15	154	19	+33	40	9	167
North Egmont	955	11.2	4.4	7.8	..	15.3	29	0.2	15	876	22	..	137	13	..
Lower Retaruke	223	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Turangi	366	16.1	7.1	11.6	+0.1	19.0	20	−0.6	17	160	19	+23	29	26	149
Mt Ruapehu Chateau 2	1097	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ruapehu The Chalet	1941	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tukino	1650	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mt Bruce Res	305	16.4	6.5	11.5	+1.0	22.8	25	0.2	16	155	16	−74	49	13	..
Waingawa	114	18.6	6.6	12.6	+0.7	23.3	22	0.0	16	56	13	−20	18	13	226
Kopua	311	17.1	7.3	12.2	+0.9	23.0	29	0.7	18	56	13	−28	25	26	..
Waipukurau Aero	137	18.6	6.6	12.6	+0.7	23.0	25	−1.4	17	28	7	−33	19	26	206*
Dannevirke	207	17.4	7.5	12.5	+0.6	22.1	29	1.4	17	54	15	−40	15	9	184
Porangahau	8	18.1	7.9	13.0	..	23.5	29	0.0	17	16	9	..	4	14	..
Castlepoint Light	3	17.4	10.3	13.9	+0.6	22.6	25	5.4	18	21	9	−46	5	2	..
Ngaumu Forest	244	17.7	5.6	11.7	+0.7	22.0	23	−1.2	16	30	9	−51	7	13	..
Tauherenikau	43	17.9	7.6	12.8	+0.6	21.6	23	0.6	16	85	10	−11	40	13	210
Waiorongomai	21	16.5	8.4	12.5	+0.6	20.5	19	−0.1	16	152	14	+24	43	13	..
Martinborough	30	18.5	7.2	12.9	..	22.2	6	−0.2	16	39	11	..	19	13	209
Ruatoria	61	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mangatu Forest	182	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gisborne, Manutuke	90	19.1	9.1	14.1	+0.6	23.3	25	2.5	15	25	10	−38	9	15	..
Gisborne Aero	4	19.6	8.9	14.3	+0.7	24.7	25	0.7	20	35	11	−33	15	15	204
Waikaremoana Onepoto	643	15.9	7.1	11.5	+0.7	24.2	1	2.7	15	94	16	−53	22	30	..
Wharerata Forest	439	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tokomaru Bay Maf Edl	244	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Esk Forest	427	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ngamatea Nzfs	885	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kaweka Forest	414	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Napier Aero	2	..	9.4	..	..	..	..	2.4	18	10	8	−54	7	26	..
Napier Nelson Pk	2	19.8	10.1	15.0	+1.1	24.4	25	2.8	18	10	6	−51	6	26	215
Havelock Nth Dsir 2	9	19.7	7.2	13.5	..	24.5	25	0.0	18	9	5	..	4	25	211
Havelock Nth Edr	9	19.7	7.0	13.4	..	24.8	25	−0.4	18	10	7	..	4	25	..
Hastings Civic Sq.	16	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whakatu	6	19.0	8.3	13.7	..	24.0	25	1.2	18	5	6	..	3	26	..
Gwavas Forest	335	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Makaretu	335	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ongaonga Thornton	190	..	..	..	..	..	..	..	..	16	8	..	8	26	..
Mohaka Forest	286	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Wairoa Frasertown	8	20.1	8.6	14.4	+0.6	24.8	25	2.6	18	57	10	−45	28	31	..
Wairoa Hospital	20	19.3	11.9	15.6	+1.9	23.5	9	3.4	18	27	9	−75	11	14	211
Kapiti Is	16	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Paraparaumu Aero	7	15.9	8.4	12.2	−0.2	19.1	6	0.4	16	84	13	−9	31	13	205
Bulls Flockhouse	9	17.2	8.8	13.0	+0.6	22.4	29	0.1	16	70	14	−6	24	9	..
Ohakea Aero	48	17.2	9.3	13.3	+0.6	21.8	6	2.4	17	74	15	−6	25	9	177
Palmerston N Kairanga	15	17.3	7.7	12.5	+0.1	22.6	29	1.5	17	54	10	−25	23	9	181
Palmerston N Aero	45	17.4	8.5	13.0	+0.8	22.0	29	2.8	17	66	10	−14	19	9	..
Palmerston N Dsir	34	17.4	8.6	13.0	+0.4	22.2	29	3.4	3	93	15	+6	21	9	158
Foxton	9	17.2	8.3	12.8	..	21.4	29	−1.2	16	78	17	..	24	9	179
Waitarere Forest	3	16.3	8.3	12.3	−0.2	20.7	29	0.2	16	65	12	−8	20	9	..
Levin Maf	46	16.7	8.8	12.8	+0.4	20.4	27	1.4	16	107	13	+12	22	13	164
Titahi Bay Te Pene Av	31	16.4	8.9	12.7	..	20.0	18	0.0	16	93	14	..	37	13	..
Lower Hutt Avalon	15	16.5	8.2	12.4	−0.1	19.4	27	1.0	16	140	15	+29	51	13	..
Wellington Kelburn	125	15.6	9.0	12.3	+0.2	19.1	27	2.8	16	116	13	+15	48	13	214
Somes Is	43	15.6	9.5	12.6	+0.4	18.0	25	3.0	16	98	..	+17	48	13	..
Lower Hutt Gracefield	34	15.9	..	..	..	19.1	28	..	..	124	13	+20	58	13	..
Wainuiomata Coast Rd	82	16.2	6.3	11.3	−0.5	19.9	27	−0.4	16	135	14	+9	55	13	..
Wellington Aero	6	16.6	10.1	13.4	+0.6	20.1	28	3.0	16	91	13	+5	47	13	..
Rimutaka Forest	37	16.9	7.5	12.2	..	20.5	18	−1.0	16	104	11	..	47	13	..
Kaitoke	223	15.6	6.7	11.2	+0.4	20.5	26	−1.4	17	205	16	+23	75	13	188
Wallaceville	56	16.7	7.2	12.0	+0.3	20.7	27	−1.3	16	155	17	+47	54	13	195
Stratford Dem Farm	311	15.1	7.4	11.3	+0.5	19.8	18	0.9	17	239	16	+54	69	9	150

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	Metres	°C	°C	°C	°C	°C		°C		mm		mm	mm		Hrs
Kapuni	173	15.8	7.0	11.4	..	19.5	27	−1.1	16	111	18	..	37	9	..
Manaia Dem Farm	98	16.1	7.5	11.8	−0.2	19.3	22	1.0	17	106	15	+19	38	9	160
Normanby Edr	122	15.6	8.0	11.8	..	19.6	27	−0.2	16	112	15	..	45	9	..
Normanby Maf	122	15.9	7.2	11.6	+0.0	19.8	27	0.2	16	113	17	..	41	9	..
Patea Hospital	43	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Turoa, The Giant	2052	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ohakune Junction 2	629	14.4	5.5	10.0	+0.3	18.5	23	−1.5	17	161	19	+16	37	9	..
Karioi 2	648	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Waiouru Mwd	823	14.0	4.5	9.3	+0.8	18.0	26	−2.0	17	69	15	−16	12	8	..
Waiouru Military Camp	823	13.5	4.1	8.8	+0.7	17.7	26	−2.7	17	76	18	−21	13	26	..
Ahu Ahu Valley	85	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taihape Rec	433	16.9	5.6	11.3	+0.2	21.0	23	−1.5	16	58	16	−30	13	9	..
Wanganui Cooks Gdns	22	17.7	9.6	13.7	+0.5	23.0	29	2.6	16	69	17	−6	30	9	207
Wanganui Aero	9	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Takaka Kotinga 2	25	17.0	7.0	12.0	..	21.6	20	1.6	12	344	18	..	78	12	195
Totaranui	10	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Westport Aero	2	15.4	8.3	11.9	+0.2	18.5	25	3.0	18	190	18	+3	25	12	174
Westport Te Kuha Edl	680	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Cobb Dam	823	12.4	3.2	7.8	−0.2	17.5	20	−1.8	16	209	17	−1	44	12	..
Arapito	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lake Rotoroa	443	15.0	4.2	9.6	..	22.0	26	−1.9	16	213	..	..	44	13	..
Lake Rotoiti	634	14.1	3.4	8.8	−0.1	20.0	26	−3.0	16	131	17	−23	23	12	..
Hokitika Aero	39	14.8	7.3	11.1	−0.1	18.7	27	0.5	15	303	18	+34	42	12	161
Punakaiki Rocks	4	15.7	9.8	12.8	..	18.1	22	4.6	15	233	18	..	33	23	..
Reefton Nzfs	198	16.9	6.4	11.7	+0.4	22.9	26	−1.4	16	233	20	+54	46	12	..
Barrytown	30	15.5	9.0	12.3	..	18.0	25	4.7	15	334	18	+112	82	29	..
Totara Flat	77	16.1	6.3	11.2	−0.2	21.3	30	−1.4	15	166	17	−5	34	12	..
Greymouth Aero	4	15.0	8.0	11.5	−0.2	17.8	31	2.4	15	237	18	+16	86	12	136
Springs Junction	421	15.0	3.8	9.4	−0.4	21.6	25	−3.8	16	268	18	+66	40	29	..
Pukekura	86	15.3	5.6	10.5	..	19.2	25	−1.4	15	426	20	..	70	28	..
Harihari Nzfs	45	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Okarito	10	15.0	7.5	11.3	..	18.3	30	0.9	15	379	18	..	69	28	..
Franz Josef	155	15.0	6.4	10.7	..	20.1	27	1.0	1	865	20	..	240	5	108
Fox Glacier Main Rd	152	14.5	6.3	10.4	+0.2	19.8	27	−0.1	1	743	21	+322	192	5	..
Milford Sound	3	14.5	5.5	10.0	−0.2	18.9	30	0.5	1	913	19	+353	265	5	..
Deep Cove 2	3	13.8	5.3	9.6	..	21.0	27	0.0	14	520	..	..	89	5	..
Stephens Is	187	14.3	8.7	11.5	+0.4	17.3	23	3.4	14	54	12	−19	15	13	..
Motueka Dsir	8	17.7	6.2	12.0	−0.2	22.7	29	1.3	15	104	15	−18	30	12	220
Tapawera	146	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pelorous Sd Crail Bay	13	..	..	..	..	..	..	..	..	222	..	..	..	..	..
Appleby	17	16.6	8.1	12.4	+0.1	19.6	2	1.7	15	87	15	+1	27	12	..
Nelson Aero	2	16.3	8.1	12.2	+0.2	18.8	2	1.5	15	106	13	+21	28	12	212
Rai Valley	79	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Blenheim Research	4	17.8	7.1	12.5	..	21.9	20	0.7	16	81	8	..	38	13	241
Wairau Valley	162	17.2	6.1	11.7	..	22.4	20	−2.1	16	144	8	..	50	13	..
Blenheim Aero	27	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Brancott Valley	64	18.0	6.4	12.2	..	22.5	20	0.4	15	91	8	..	39	13	..
Spray Point Waihopai	457	16.5	4.4	10.5	..	21.9	20	−3.6	16	153	14	+54	51	13	..
Duntroon	350	17.2	6.7	12.0	..	21.8	2	−1.5	16	122	..	+45	..	..	..
Grassmere Salt Works	2	17.0	8.6	12.8	+0.2	22.0	2	0.1	3	68	4	+23	52	13	222
Boyle River Lodge	600	15.0	3.4	9.2	..	21.0	24	−3.7	16	246	22	..	34	7	..
Hanmer Forest	387	17.1	4.0	10.6	+0.1	22.5	31	−3.6	16	110	9	+8	57	13	174
Molesworth	893	14.0	1.4	7.7	−0.6	20.9	31	−6.3	1	84	7	+25	31	13	..
Kaikoura Weather Stn	108	15.5	8.5	12.0	+0.4	22.6	24	1.9	14	47	7	−15	31	13	196
Arthurs Pass	738	11.5	2.8	7.2	..	18.5	26	−4.2	16	585	18	+193	79	7	..
Culverden Mwd	174	17.7	5.1	11.4	..	23.0	6	−1.5	1	70	7	..	37	13	..
Balmoral Forest	198	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Waiau Lyndon St 2	137	18.9	5.1	12.0	..	25.2	6	−3.5	16	72	7	..	42	13	..
Cheviot	85	17.6	5.3	11.5	..	24.8	24	−2.0	16	63	5	..	39	13	212
Mt Cook The Hermitage	765	14.6	3.9	9.3	+0.4	24.6	31	−2.0	16	536	21	+174	138	5	162
Mt John	1027	12.5	3.7	8.1	+0.2	19.4	31	−5.0	14	81	12	+34	40	13	..
Craigieburn Forest	914	14.3	2.1	8.2	+0.3	21.6	31	−3.9	16	162	15	−9	35	13	..
Lake Coleridge	364	16.9	5.0	11.0	+0.3	24.1	22	−1.5	16	104	12	+24	35	13	..
Highbank Power Stn	230	16.2	6.8	11.5	+0.7	21.8	31	−0.5	16	94	11	+7	44	13	..
Hororata Substation	192	17.4	5.0	11.2	+0.2	23.8	28	−3.2	1	93	10	+25	43	13	176
Winchmore Maf	160	16.4	5.8	11.1	+0.3	22.6	28	−0.6	16	75	8	+14	37	13	..
Peel Forest	274	16.7	4.9	10.8	+0.7	22.5	24	−3.0	16	88	15	+5	40	13	..
Ashburton Council	101	17.6	6.1	11.9	−0.1	24.4	28	−1.6	1	74	7	+14	38	13	136
Ashley Forest 1	107	16.5	6.8	11.7	+0.3	22.2	7	−0.2	1	78	6	+15	34	13	156
Rangiora Nzfs	46	17.7	6.1	11.9	+0.5	24.9	7	−3.0	1	62	9	+11	26	13	..
Kairaki	3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Darfield	195	19.0	5.8	12.4	+0.9	25.4	22	−0.6	16	79	8	+10	32	13	..
Eyrewell Forest	158	17.6	4.8	11.2	+0.0	27.2	31	−3.5	16	86	8	+23	43	13	..
Christchurch Aero	30	17.4	6.7	12.1	+0.5	26.0	6	−2.9	16	64	8	+21	30	13	194
Christchurch Gardens	7	17.4	7.4	12.4	+0.3	25.0	6	0.9	16	61	6	+16	29	13	..

CLIMATOLOGICAL TABLE—*Summary of the Records of Temperature, Rainfall, and Sunshine for October 1987*—continued

Station	Height of Station Above M.S.L.	Air Temperature in Degrees Celsius								Rainfall in Millimetres					Bright Sunshine
		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		mm		mm	mm		Hrs
Christchurch Bromley	9	16.8	8.4	12.6	+0.4	24.4	28	2.1	1	60	9	+16	25	13	..
Mt Pleasant	137	16.1	8.5	12.3	+0.3	22.9	28	2.5	14	66	7	+17	23	13	..
Lincoln	11	16.9	7.0	12.0	+0.7	24.8	6	−0.6	16	65	8	+19	29	13	178
Akaroa Rue Lavaud	3	18.8	7.1	13.0	+1.2	24.5	24	0.0	16	107	7	..	61	13	..
Lake Tekapo Nzed	683	14.4	3.9	9.2	−0.4	21.4	31	−4.0	14	55	11	+4	16	13	..
Fairlie Riverview Tce	304	17.2	3.3	10.3	..	23.5	23	−4.1	16	56	6	..	32	13	..
Twizel Substation	451	17.2	4.0	10.6	..	24.4	31	−2.8	14	52	12	..	15	13	..
Ikawai	70	15.9	4.9	10.4	−0.2	23.5	24	−1.5	16	32	6	−13	10	10	..
Geraldine Nzfs	119	16.9	5.8	11.4	+0.0	22.5	2	−1.8	16	65	11	−2	32	13	..
Orari Estate	81	16.4	5.3	10.9	+0.0	23.2	2	−2.1	16	66	12	+3	31	13	..
Temuka	24	16.1	5.5	10.8	−0.1	22.8	2	−1.2	16	47	9	−8	17	13	..
Timaru Aero	26	15.3	5.3	10.3	−0.2	23.0	2	−1.4	1	49	10	+0	18	13	..
Timaru 2	17	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Waimate	61	15.6	6.7	11.2	−0.3	23.2	24	0.3	16	47	9	−5	12	13	..
Benmore Power Stn	253	17.7	6.9	12.3	..	23.5	28	1.0	1	36	10	+1	12	13	..
Aviemore 2	241	16.8	..	..	..	24.0	28	..	..	36	9	−6	9	13	..
Kurow	207	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Knobs Flat	375	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tara Hills Edr	488	16.6	3.6	10.1	..	24.4	31	−4.2	1	47	14	..	13	7	..
Lake Hawea	350	15.6	5.7	10.7	+0.0	22.2	31	−1.4	14	81	13	+11	27	5	..
Wanaka	296	17.7	5.6	11.7	+0.9	24.0	31	−2.2	14	83	12	+20	29	5	..
Queensbury Mwd	277	17.5	5.5	11.5	..	24.2	31	−2.3	14	55	13	..	19	5	..
Bendigo 2	200	18.4	5.6	12.0	..	25.5	31	−2.2	14	36	12	..	10	9	..
Naseby Forest 2	607	15.2	2.6	8.9	..	21.5	28	−4.5	1	58	10	..	19	10	..
Oamaru Spey St	5	15.0	6.2	10.6	..	25.0	24	−0.3	1	32	..	..	9	14	..
Ranfurly Maniototo	427	16.1	2.2	9.2	−0.4	22.0	24	−4.0	1	35	10	−9	8	29	168
Herbert Forest	61	15.8	4.2	10.0	−0.2	25.5	24	−2.0	1	66	12	+13	11	11	..
Palmerston	21	15.4	4.8	10.1	+0.1	25.3	24	−1.2	14	40	12	−8	8	14	134
Cherry Farm Hospital	6	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taiaroa Head	72	13.0	7.2	10.1	−0.2	23.6	24	2.3	14	39	13	−11	6	14	..
Invermay Edr	30	15.7	5.4	10.6	..	24.0	24	−0.1	14	69	15	..	21	10	..
Berwick Forest	18	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Dunedin Aero	1	16.1	5.3	10.7	+0.1	24.3	24	−0.6	14	83	15	+33	25	10	139
Dunedin Musselburgh	2	14.8	7.8	11.3	+0.2	25.7	24	2.7	14	47	16	−14	6	10	123
Te Anau Po	215	15.6	4.7	10.2	+0.8	22.3	27	−2.4	14	164	..	+59	38	9	164
Manapouri West Arm 2	232	13.3	5.4	9.4	+0.3	19.5	19	−0.7	14	411	18	+63	72	5	..
Borland Burn	183	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Queenstown	329	16.4	6.1	11.3	+0.6	24.4	31	1.0	14	98	18	+18	43	5	194
Queenstown Aero	349	15.5	4.4	10.0	+0.3	23.2	31	−0.8	14	78	15	+14	28	5	..
Burwood Bush	490	14.1	3.4	8.8	..	19.8	27	−3.0	14	121	15	..	22	5	..
Cromwell Sub Stn	213	18.2	5.6	11.9	..	23.9	24	−1.6	14	44	13	+26	9	5	..
Cromwell Mwd	213	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Northburn	210	18.3	5.7	12.0	..	25.0	31	−1.8	14	32	9	..	6	9	..
Cromwell 2	213	17.4	5.3	11.4	..	23.8	24	−1.3	14	42	15	..	10	5	210
Lauder Edr	370	16.3	4.2	10.3	..	21.5	19	−3.3	14	39	11	..	9	10	..
Clyde Dam	160	18.2	6.2	12.2	..	24.2	24	−0.5	14	45	15	..	9	13	..
Ophir 2	305	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Clyde Dsir	171	18.3	5.3	11.8	..	24.4	28	−1.7	14	42	12	..	11	7	..
Alexandra B Council	141	19.2	5.2	12.2	..	26.5	24	−3.0	14	31	14	..	7	7	181
Ettrick No 1	83	18.4	5.1	11.8	..	24.0	24	−1.5	1	51	12	..	15	25	..
Ettrick No 2	91	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Beaumont Nzfs	46	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mahinerangi Dam	396	13.9	3.4	8.7	+0.2	21.3	24	−1.6	22	84	17	+11	27	10	..
Tapanui	215	15.5	4.9	10.2	−0.1	22.1	24	−2.0	14	67	13	−8	15	2	..
Taieri Mouth	15	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tuatapere	27	..	..	..	..	..	..	..	..	165	..	..	41	9	..
Winton B Council	44	15.7	5.6	10.7	+0.4	22.2	22	0.0	13	81	19	+15	20	9	148
Gore Edr	123	14.7	5.9	10.3	..	21.3	24	0.5	13	73	19	..	13	5	..
Wyndham	20	15.9	6.2	11.1	..	22.0	23	0.2	13	105	17	..	21	24	..
Invercargill Aero	0	14.6	6.4	10.5	+0.5	22.2	28	0.9	13	132	20	+47	31	9	154
Tiwai Point	5	14.4	7.5	11.0	+0.6	22.8	28	3.2	14	115	16	+25	34	9	..
Stewart Is	3	13.9	5.9	9.9	+0.5	23.3	28	−0.9	14	195	25	+88	43	1	..
Clinton School	120	14.9	5.7	10.3	..	21.7	25	0.5	14	74	15	..	17	2	..
Balclutha Finegand	6	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Owaka	5	15.1	5.7	10.4	+0.3	24.0	24	0.3	14	92	17	+34	20	9	..
Nugget Point	129	13.3	6.4	9.9	+0.1	22.5	24	1.6	14	86	19	+19	14	9	..
Tautuku	40	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Fiji Nadi Aero	15	30.3	20.2	25.3	−0.1	32.7	17	16.1	25	2	2	−91	2	15	281
Ci Rarotonga Aero	7	25.0	19.7	22.4	−0.7	27.4	2	15.3	24	78	18	−28	22	2	215
Ci Raro Totokoitu	9	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Raoul Is	38	20.1	15.1	17.6	+0.0	22.2	10	11.4	5	68	17	−33	45	2	161
Campbell Is	15	9.1	3.5	6.3	+0.2	11.3	23	−3.8	17	129	28	+20	22	23	59
Chatham I Waitangi	44	12.8	8.2	10.5	+0.2	15.4	24	2.6	16	32	15	−27	8	10	174
Chatham I Kaiangaroa	41	13.4	8.4	10.9	..	16.4	29	4.6	4	28	16	..	7	2	..
Ant Scott Base	16	−15.7	−25.7	−20.7	+2.0	−5.6	3	−34.6	18	..	..	..	..	..	..

CLIMATOLOGICAL TABLE—*Summary of the Records of Temperature, Rainfall, and Sunshine for October 1987*—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	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		mm		mm	mm		Hrs
LATE RETURNS AND CORRECTIONS															
Kaikohe Dsir Edr 09/1987	204	14.5	9.0	11.8	..	17.3	3	5.1	1	127	21	..	25	8	..
Kumeu 09/1987	32	16.2	9.4	12.8	+0.9	18.2	30	1.0	1	142	17	..	25	14	..
Te Puke 09/1987	91	16.9	6.7	11.8	+0.2	19.7	29	2.8	26	81	15	−99	18	2	174
Galatea 08/1987	190	15.3	2.8	9.1	..	19.6	24	−4.0	13	56	8	..	30	4	..
Pukekohe Maf 09/1987	82	15.6	8.9	12.3	+0.6	18.5	30	4.2	1	156	24	..	25	15	..
Pukekohe Edr 09/1987	82	..	..	..	..	..	..	..	..	..	..	..	..	..	..
New Plymouth 09/1987	55	15.2	8.5	11.9	+0.4	17.5	27	3.8	1	133	21	+23	27	2	..
Lower Retaruke 09/1987	223	14.6	5.9	10.3	+0.3	18.6	26	−0.2	6	137	20	+16	29	11	..
Hastings Civic Sq. 09/1987	16	17.6	5.4	11.5	..	25.0	30	0.8	7	11	6	..	5	9	..
Makaretu 04/1987	335	17.4	7.7	12.6	+0.1	23.1	21	1.4	25	104	15	+7	50	10	..
Makaretu 05/1987	335	15.2	4.6	9.9	+0.2	19.7	28	0.0	4	50	15	−37	15	20	..
Makaretu 06/1987	335	12.7	2.3	7.5	+0.0	17.4	15	−3.2	17	50	15	−51	11	29	..
Makaretu 07/1987	335	11.2	2.7	7.0	+0.2	15.5	8	−2.6	7	107	17	+8	32	18	..
Ongaonga Thornton 09/1987	190	15.7	3.7	9.7	..	19.9	28	−1.0	1	26	12	..	6	9	..
Westport Te Kuha Edl 09/1987	680	8.7	3.9	6.3	..	12.4	26	1.6	16	510	26	..	66	12	..
Deep Cove 2 09/1987	3	11.7	4.5	8.1	..	15.0	1	1.4	23	534	..	..	78	29	..
Pelorous Sd Crail Bay 08/1987	13	14.3	6.1	10.2	..	16.1	1	1.5	25	111	..	..	..	..	..
Brancott Valley 09/1987	64	16.9	5.0	11.0	..	25.6	28	0.1	16	21	..	..	11	11	..
Craigieburn Forest 09/1987	914	12.8	0.3	6.6	+1.0	18.2	28	−4.2	16	106	16	−35	39	30	..
Fairlie Riverview Tce 09/1987	304	..	1.8	..	..	..	..	−4.2	6	28	11	..	8	11	..
Timaru 2 09/1987	17	14.4	5.2	9.8	..	26.5	28	−0.6	6	24	10	..	9	10	123
Kurow 09/1987	207	14.5	4.0	9.3	..	21.9	27	−1.2	8	30	11	..	10	11	..
Knobs Flat 07/1987	375	7.3	−1.6	2.9	..	11.2	8	−5.5	26	180	..	+14	67	20	..
Knobs Flat 08/1987	375	10.2	2.2	6.2	..	14.5	23	−3.5	1	146	..	−13	29	6	..
Lake Hawea 09/1987	350	12.7	2.9	7.8	−0.5	19.1	26	−0.6	6	59	15	−15	21	2	..
Tapanui 09/1987	215	12.5	2.8	7.7	−0.7	19.5	27	−1.4	8	131	..	+70	..	..	..
Balclutha Finegand 09/1987	6	13.8	..	..	..	20.0	1	..	..	55	14	+13	21	20	..
Ci Raro Totokoitu 08/1987	9	23.1	18.0	20.6	−0.8	26.2	31	13.3	20	135	18	..	34	16	..

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 OCTOBER 1987

General—October was generally warmer, with drier than usual conditions in eastern regions of the North Island.

North-easterlies predominated over the north of the North Island, with strong winds more frequent than usual. North-westerlies prevailed over the South Island, with strong winds being less frequent than usual. Some high wind gusts recorded in October were 82 knots (152 kmph) from the south, and 73 knots (135 kmph) from the west, at Kaikoura and at Invercargill Airport respectively, on the 2nd.

Heavy snow occurred in inland Canterbury on the 13th and 14th. On the afternoon of the 13th maximum temperatures in Canterbury were 10°C or more below average in the cold southerly conditions. Fresh snow was seen on the Rimutaka Range and on the tops of the Orongoronga's in the North Island on the 16th.

Rainfall—Rainfall was about twice normal for October at Blenheim, Lake Coleridge and Haast. Rainfall totals of 120 to 160 percent of normal were recorded in Marlborough, Nelson, Canterbury, Westland, Otago, and Southland.

Large amounts of rain, totalling 265 and 235 mm were recorded in the 24 hours to 9 a.m. on the 7th at Milford Sound and Franz Josef respectively. A total of just over 900 mm was recorded for the month at Milford Sound.

Rainfall was below normal along the east coast of the North Island. In Gisborne rainfall was only half normal. Very little rain was recorded in Hawke Bay. Only 10 mm (16 percent of normal) was recorded at Napier Airport, and was the lowest recorded in October (equal with 10 mm in 1984) since records began there in 1950. The 3 months from August to October 1987 was also the driest August to October period there since records began, with only 68 mm (31 percent of normal rainfall).

Temperature—Mean daily temperatures were 0.5 to 1°C above normal over much of the North Island, and near, to 0.5°C above normal in the South Island.

Sunshine—Hours of bright sunshine were 110 to 115 percent of normal for October in Wellington, Horowhenua and Wairarapa. It was cloudier in Taranaki, Waikato, over the Auckland Peninsula and in Otago, where sunshine hours were 80 to 90 percent of normal.

J. S. HICKMAN, Director.

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THESE MAPS ARE MEAN SEA LEVEL ANALYSES
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P.O. BOX 722
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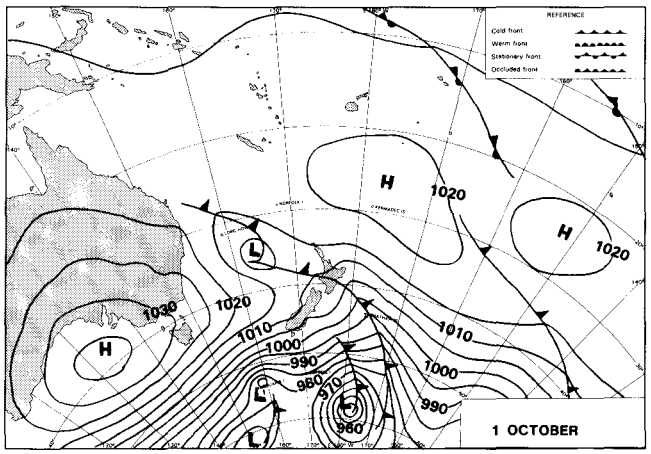

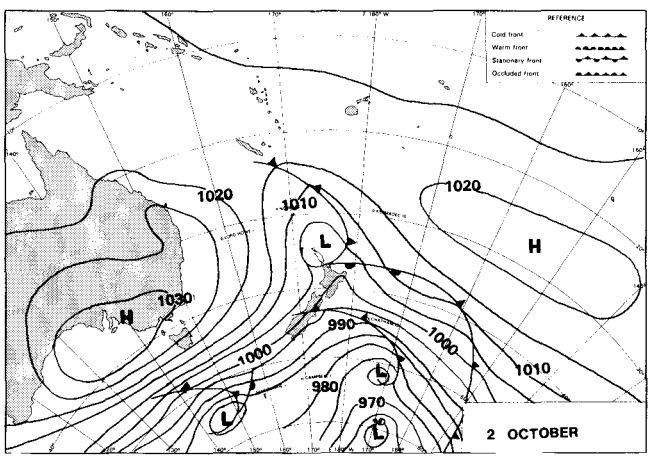

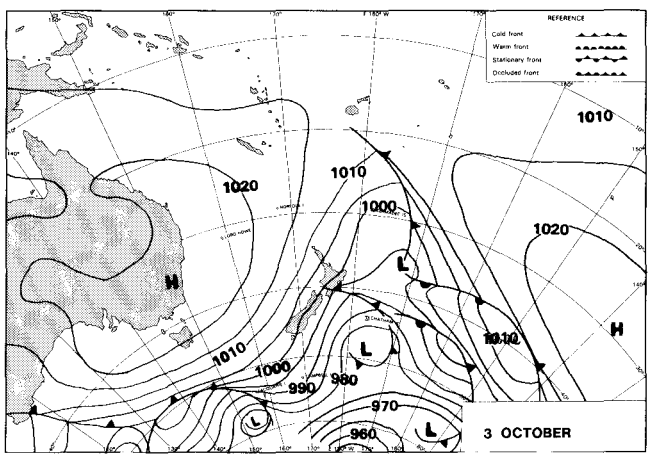

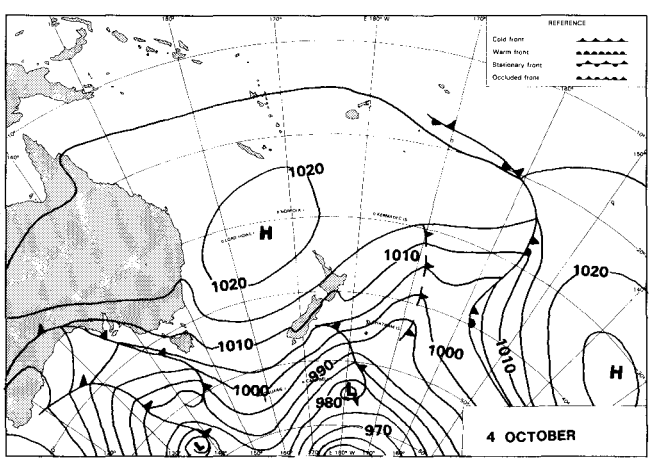

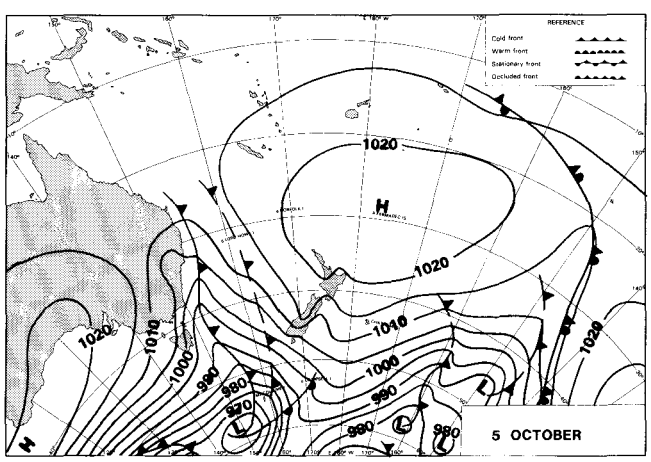

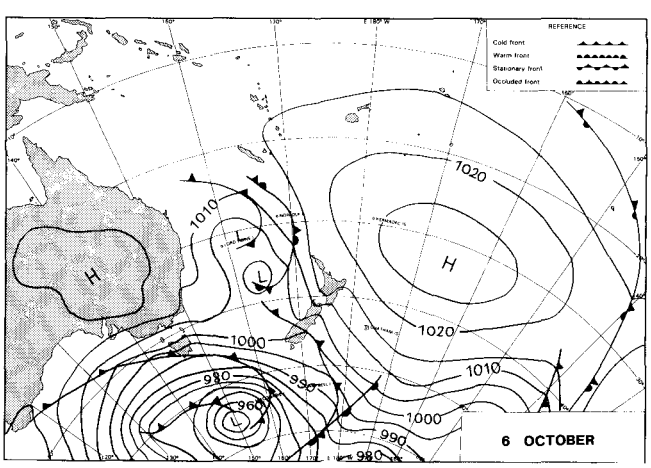

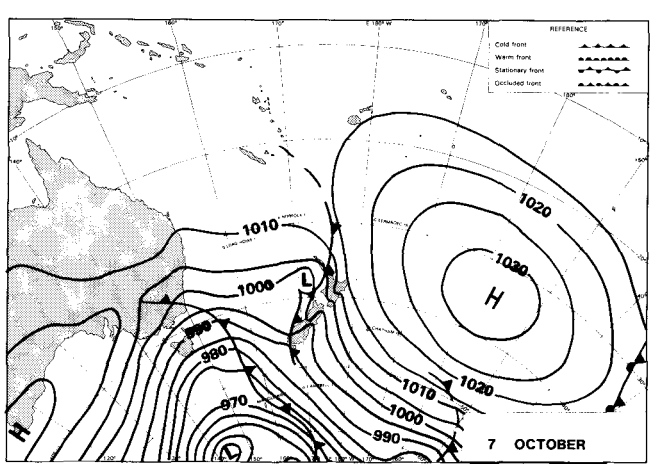

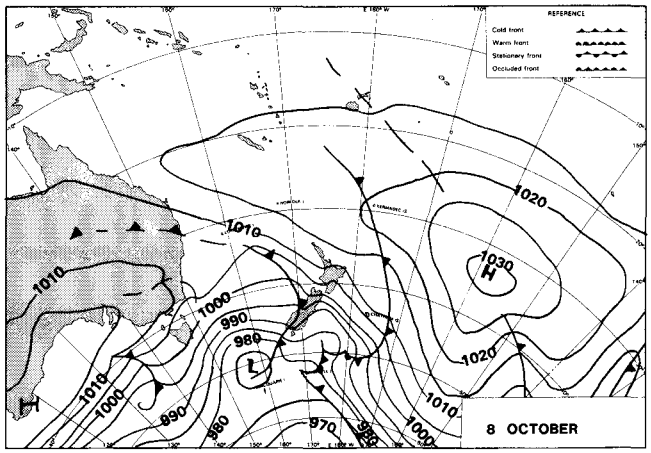
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Warm front
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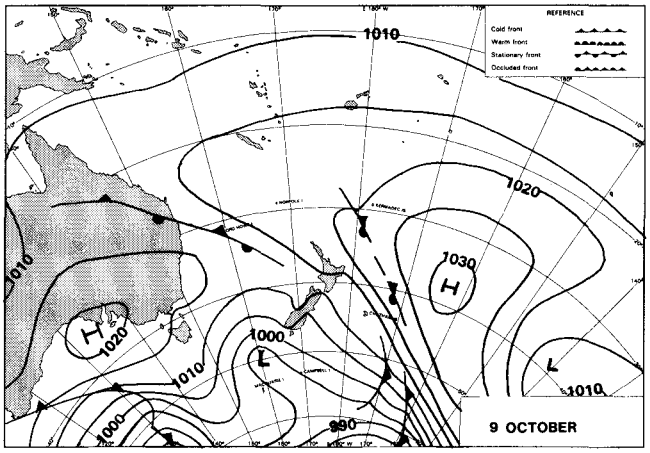
Occluded front
8 OCTOBER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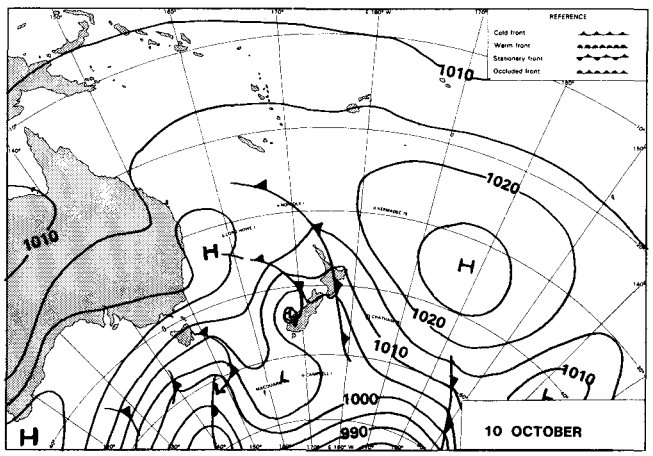
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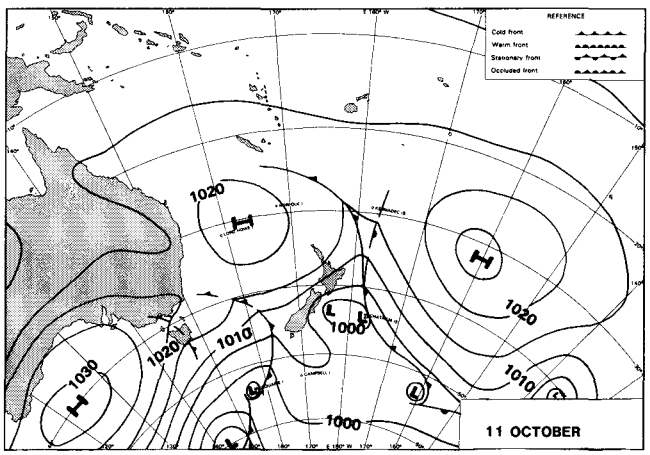
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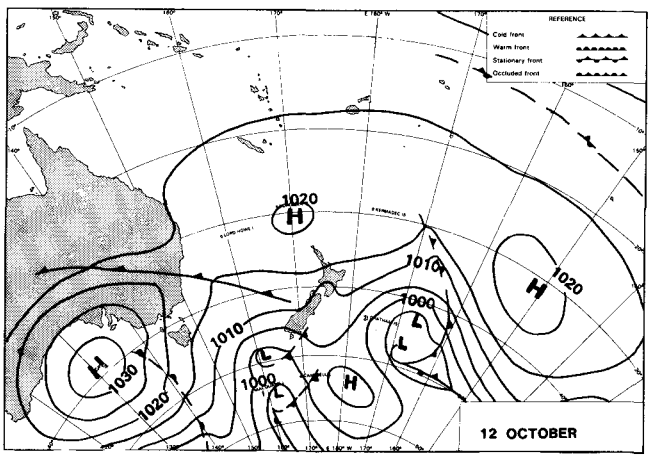
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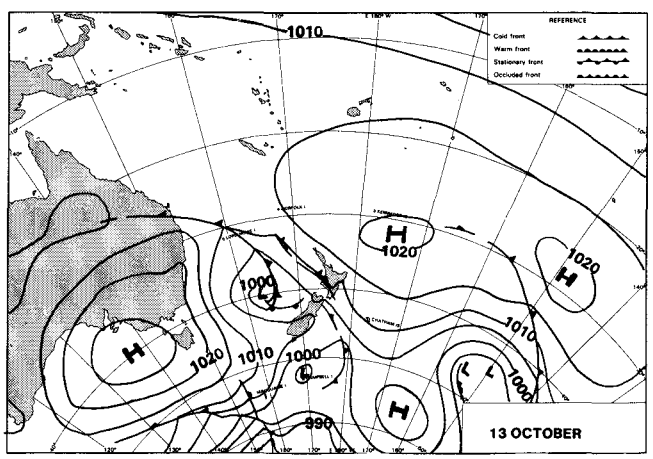
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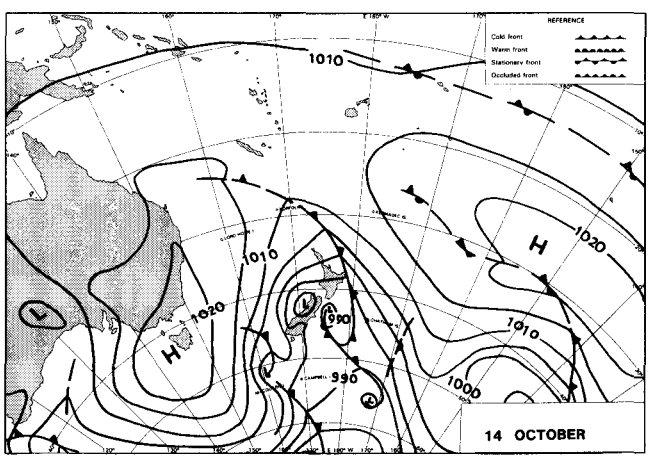
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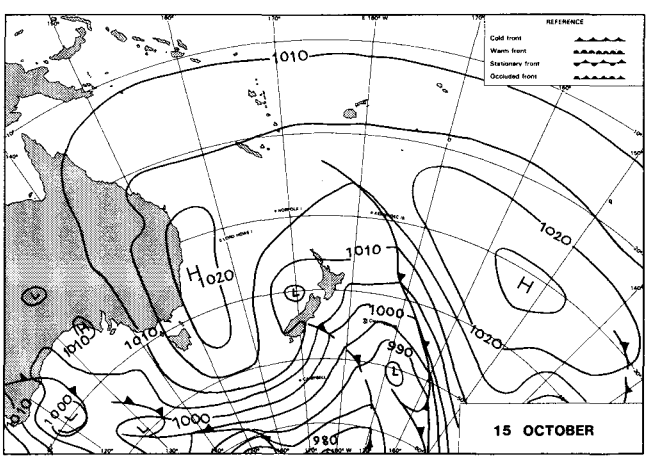
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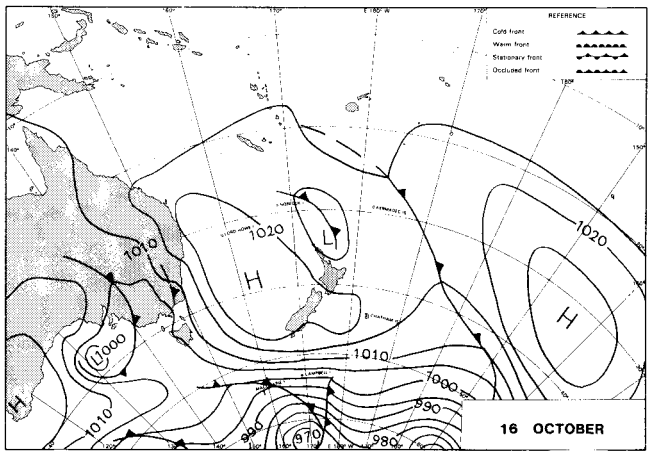
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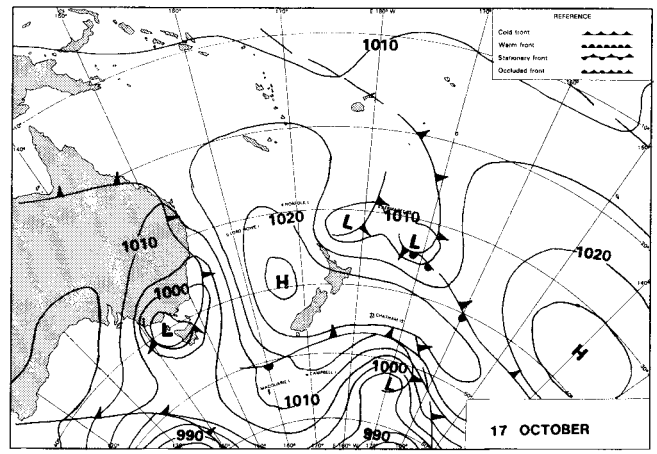
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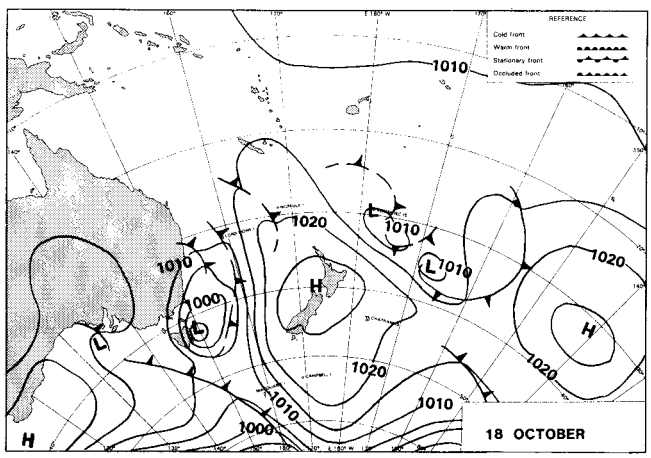
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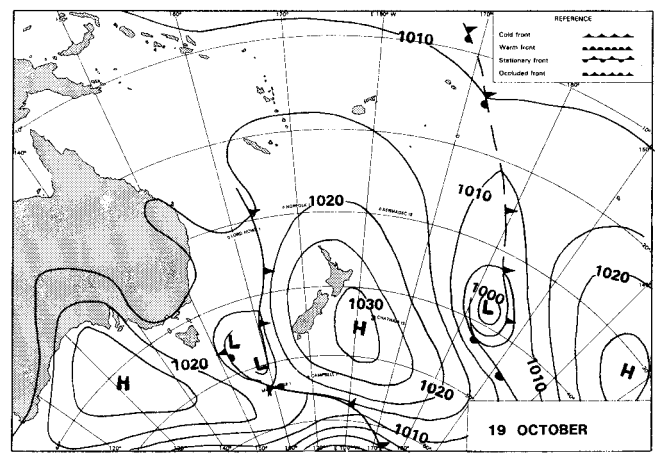
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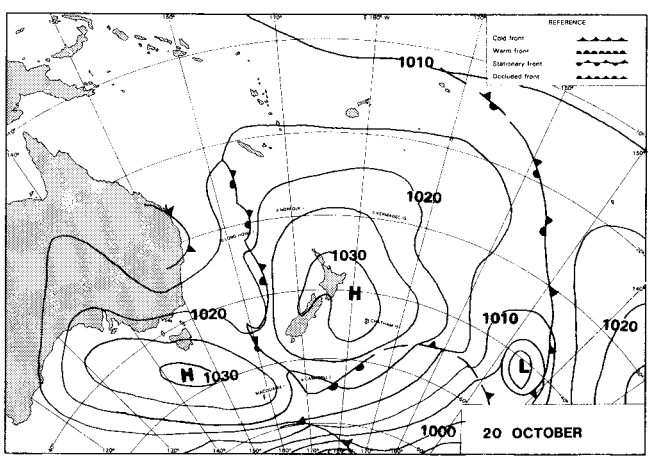
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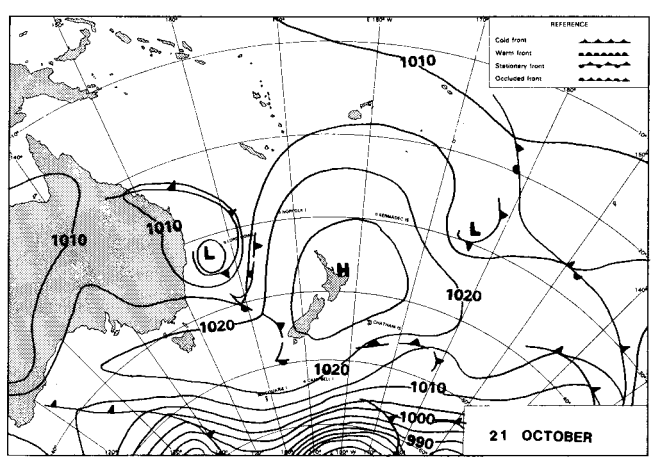
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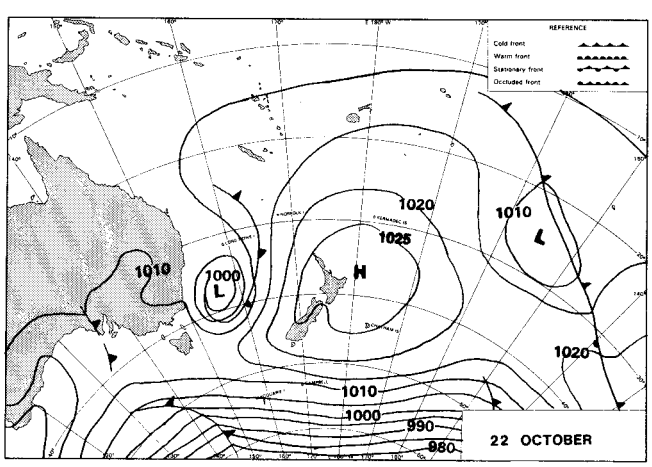
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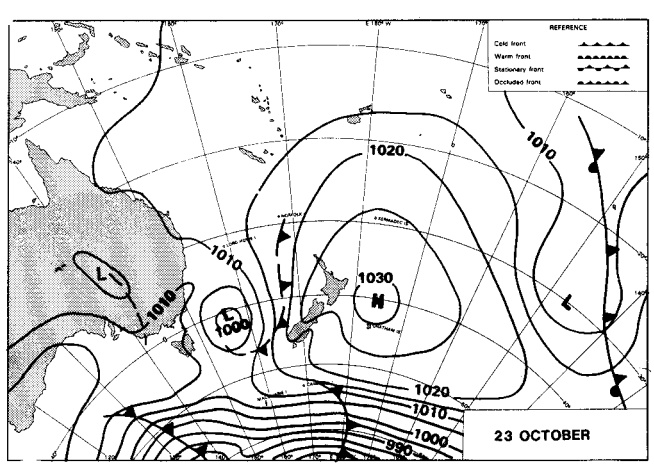
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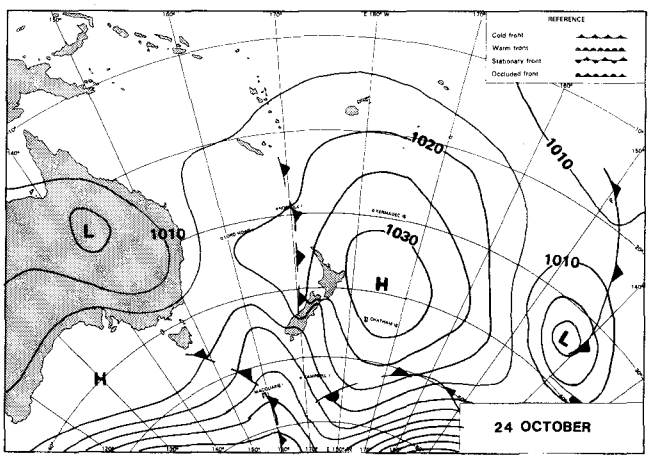

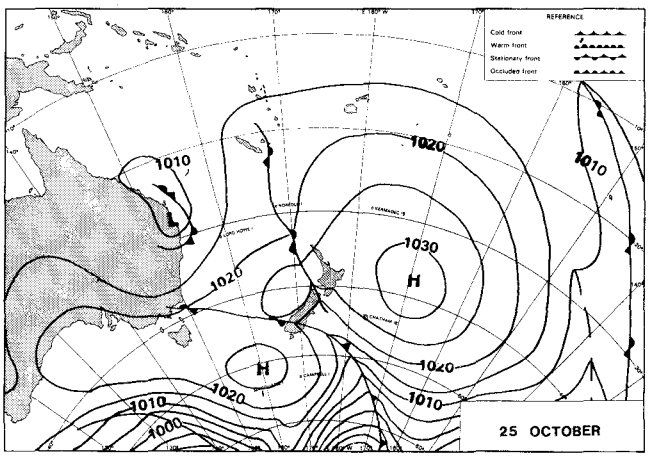

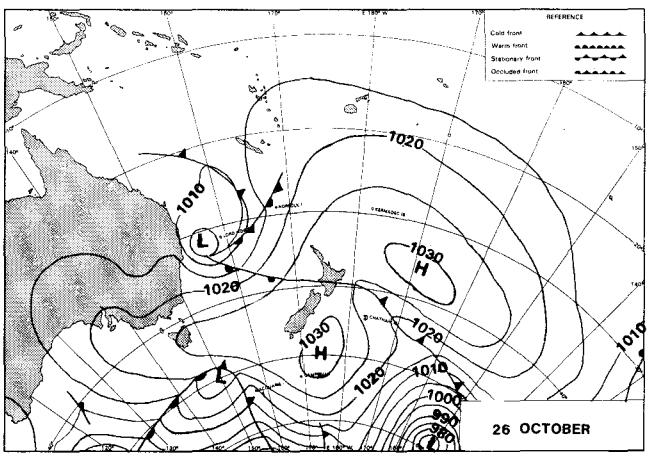

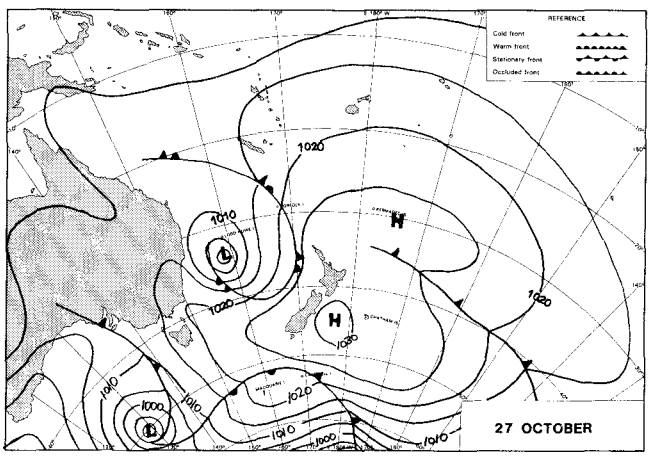

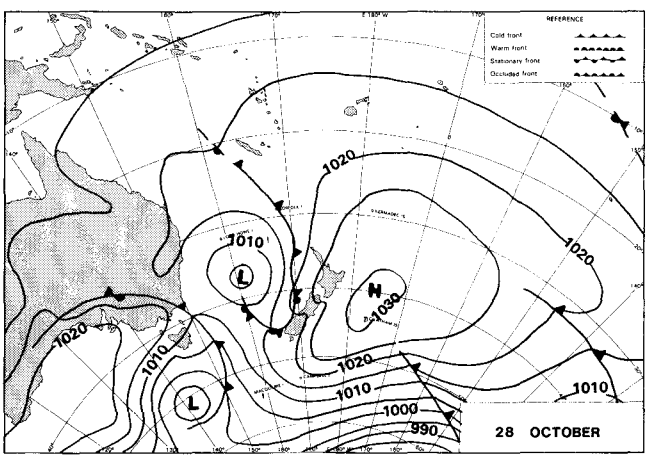

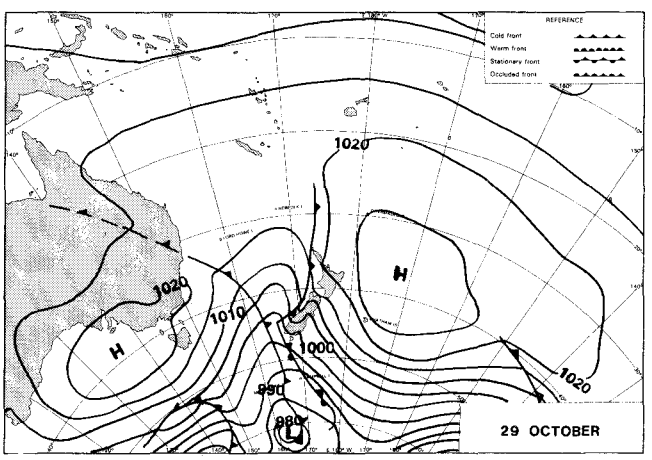

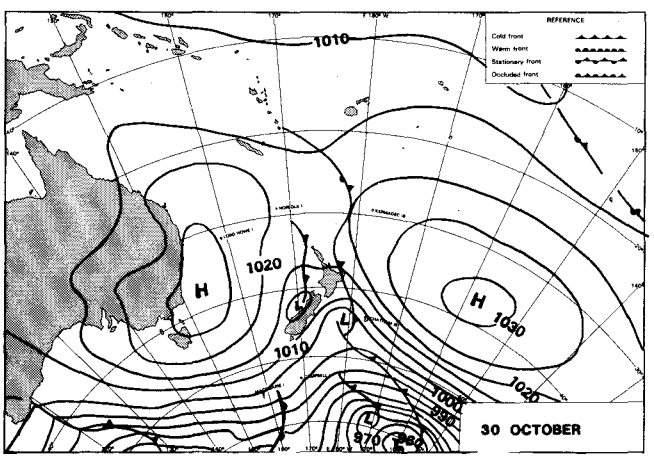

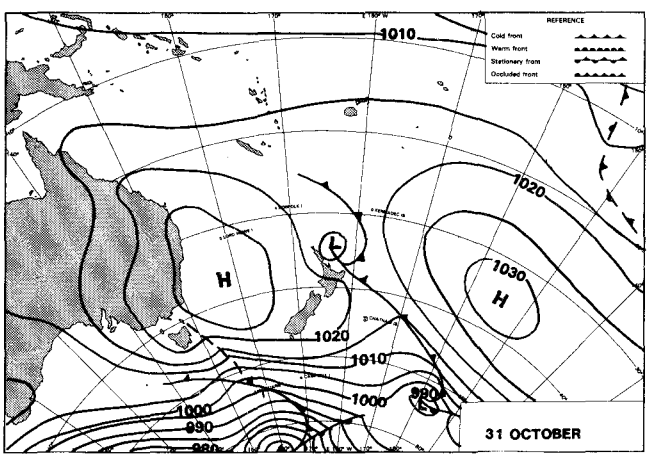

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