



Climate of the Darwin-Hatherton glacial system, Antarctica, and links with the synoptic scale

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Aims

Synoptic Climate

Annual Surface Climate

Winter Climate

Summer Climate



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Conclusion

What are the mesoscale climate patterns for this area ?

Are there any definable mesoscale features, what are their characteristics and frequencies ?

What are the links between the synoptic circulation and mesoscale climate in the area ?

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Summer					
2	1	2	1		
5	3	3	1		
8	7	5	2		
7	10	8	4		
5	11	11	4		
6	4	4	4		
4	5	6	5		
4	6	7	7		
4	4	5	7		
3	4	6	6		

Spring

Fall					
7	3	2	1		
5	5	3	2		
6	8	7	4		
5	8	6	5		
6	7	6	4		

8	6	6	6	
4	6	5	6	
5	4	5	7	
2	2	4	6	
3	2	3	7	
Winter				





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Wind Speed (m s⁻¹)



	SUMMER		WINTER
Study Area	Light and Weak	Synoptic Scale	Barrier and strong Katabatic
Aims			
Synoptic Climate	Predominant	Mesoscale	Strong katabatic,
Annual Surface Climate	katabatic	Features	warm events
Winter Climate	Dependent on the	Surface Mass	Strong katabatics
Summer Climate	frequency ratio of anabatic / katabatic winds	Balance	dominate
Conclusion			

Many thanks to Helicopters New Zealand, and the Christchurch City Council for their support

Aims Study Area

Rationale

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