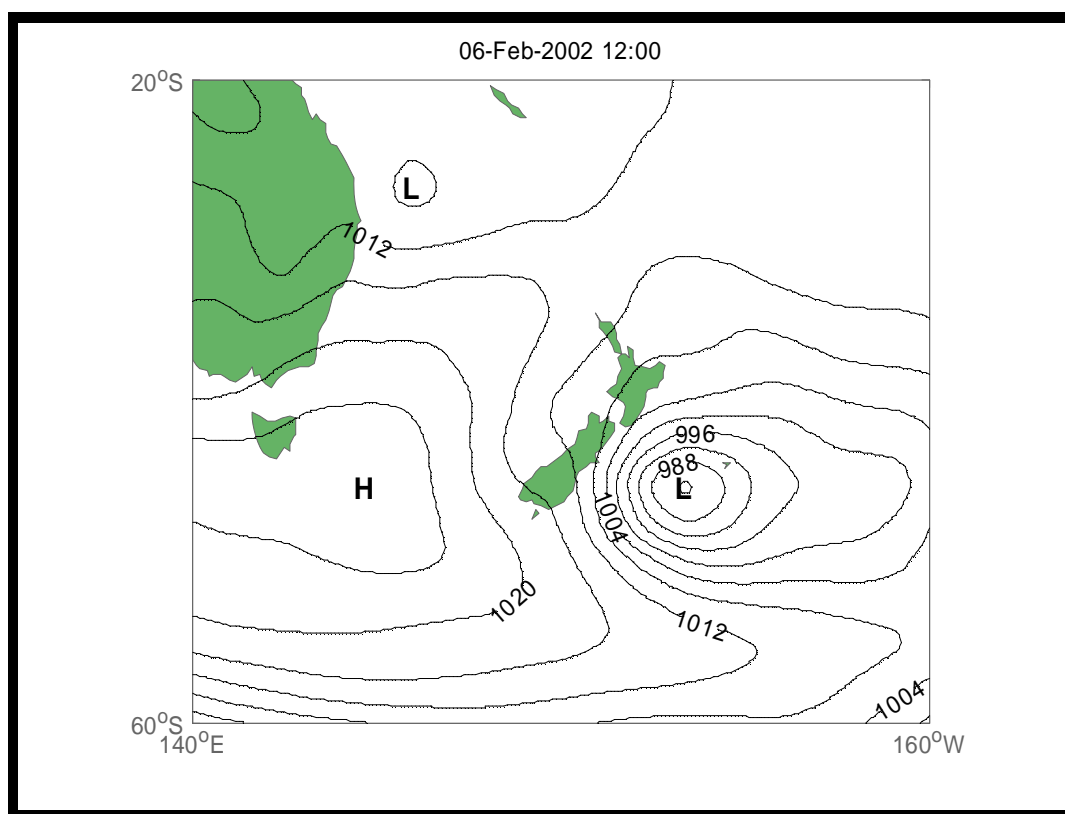


Coastal Storm Database - Event Summary

Date: 6-7 Feb 2002	Wind Direction:
Event Type: Wave	Gisborne Duration (Hours): -
Location: Gisborne/Wellington	Wellington Duration (Hours): -
Origin: Southern Ocean	Pressure Gradient: S to SSW
Type: East Coast Secondary Low	



Synoptic Conditions

A secondary cyclone formed from a southern ocean trough off the Otago coast. On the 5th it had intensified and was off the Canterbury coast with a very strong S to SSW airstream on the western side that swept over the upper South Island and into Cook Strait. This intense pressure gradient was enhanced by the eastward movement of an intense anticyclone onto the lower South Island. The cyclone remained between the Canterbury coast and Chatham Islands for between 12 to 24 hours and during that time the pressure gradient on the western side strengthened. This intense system was responsible for the large waves experienced along the east coast. Furthermore, at no stage were strong winds experienced over the North Island.

Sea Conditions

Measured waves peaked at 13m off Wellington South Coast; huge waves on the Gisborne coast

Maximum Wave Statistics

Location	Max Wave Height (m)	Period (s)
Wellington	12.8	12
*Maximum Wave Height		

Maximum Wind Gusts (kph and dir)

Date	Gisborne	Napier	Wellington
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Maximum Wind Gusts (kph and dir)

	Date	Gisborne	Napier	Wellington
	06-Feb-02			83 (S)
	07-Feb-02			63 (S)

Impact Area	Impacts and Damages
Gisborne	<ul style="list-style-type: none">● Mooring problems in Port and waves breaking over Butlers wall● Estimated 5m waves in Poverty Bay● 156m logging ship 'Jody F Millennium' grounded off Port Gisborne due to huge waves at entrance
Wellington	<ul style="list-style-type: none">● Measured waves off south coast peaked at 13m● Waves over roads in Eastbourne area● Lyall Bay surf club basement filled with water at high tide; Lyall Bay beach closed● Houses swamped by waves at Lyall Bay● All roads on Wellington south coast closed for most of day due to large waves scattered rocks and debris over them● All ferry sailings cancelled due to seas estimated at 9m in Cook Strait
Canterbury	<ul style="list-style-type: none">● Old marina at Naval Point in Lyttelton harbour wrecked, sinking 5 yachts and damaging 20 others

Data Source

- 1 Water Scientist Rides the Knowledge Wave: Dominion Post, 28/08/2002, p3
 - 2 Huge Waves Swamp Houses: Dominion Post, 7/02/2002, p1
 - 3 Tools Lost as Big Surge hits Port: Gisborne Herald, 8/02/2002, p28
 - 4 Grounded Log Ship Draws Thousands to the Beach: Gisborne Herald, 8/02/2002, p2
 - 5 Two Pulled from Huge Seas: Gisborne Herald, 7/02/2002, p25
 - 6 Storm Causes Travel Chaos: Gisborne Herald, 7/02/2002, p6
 - 7 Huge Waves Push Log Ship off Course: Gisborne Herald, 7/02/2002, p3
 - 8 Big Seas Pound Grounded Ship: Gisborne Herald, 7/02/2002, p1
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