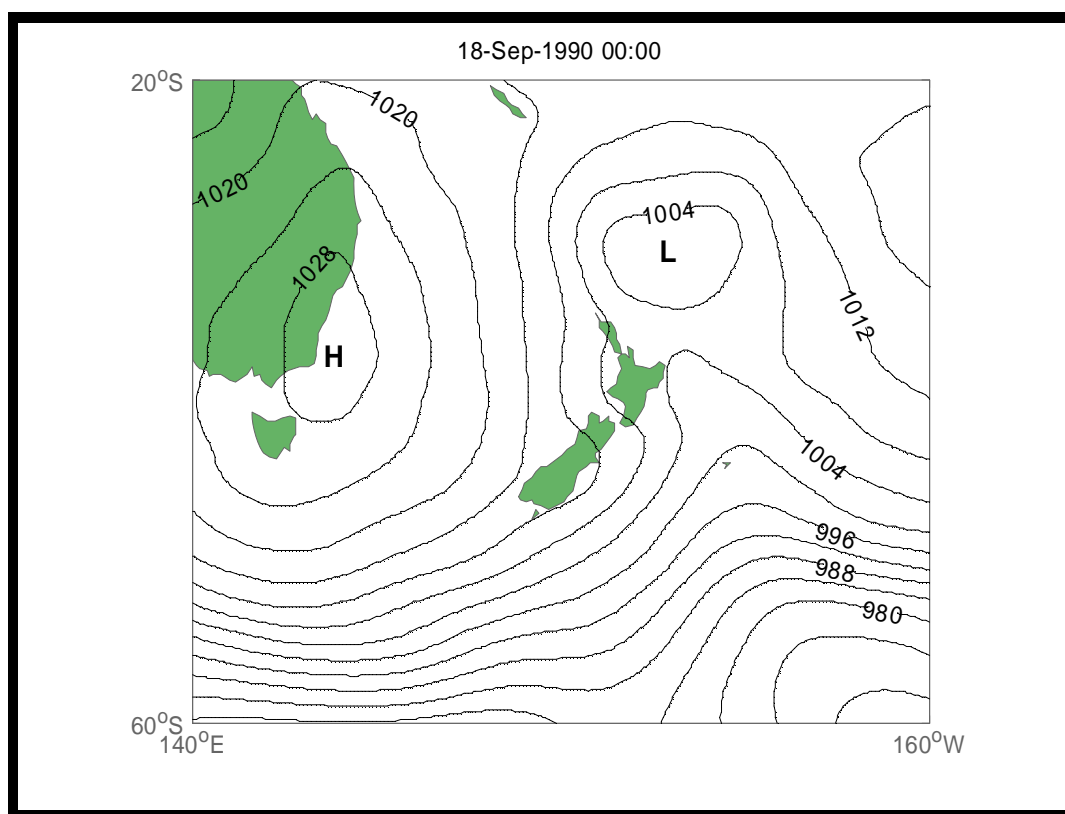


# Coastal Storm Database - Event Summary

Date: <b>17-18 Sep 1990</b>	Wind Direction:
Event Type: <b>Wave</b>	Gisborne Duration (Hours): -
Location: <b>Gisborne</b>	Wellington Duration (Hours): -
Origin: <b>Southern Ocean</b>	Pressure Gradient: <b>S to SSW</b>
Type: <b>Trough</b>	



## Synoptic Conditions

The trough from a southern ocean low passed eastward over NZ on the 17th. A strong S to SSW airstream was in its wake to the south of NZ. This trough then merged with a cyclone to the north of NZ and moved off east. At the same time a large anticyclone in the Tasman sea spread onto NZ. Between the anticyclone and trough to the east a southerly airstream covered the eastern North Island. This situation was responsible for the southerly swell experienced on the Gisborne coast.

## Sea Conditions

Hindcast deepwater waves of 3-3.5m  
Estimated wave heights off the Port of 3m

## Maximum Wave Statistics

Location	Max Wave Height (m)	Period (s)
Wellington	3.0	10
Napier	2.8	7
Gisborne	3.3	7

\*Highest Significant Wave Height

## Maximum Wind Gusts (kph and dir)

	Date	Gisborne	Napier	Wellington
	17-Sep-90	45 (NW)		80 (S)
	18-Sep-90	74 (S)		89 (S)
<b>Impact Area</b>	<b>Impacts and Damages</b>			
Gisborne	<ul style="list-style-type: none"><li>Fertiliser ship unable to berth at Port because big southerly swell; estimated 3m well in Poverty Bay</li></ul>			
<b>Data Source</b>				
1	Swell Delays Ship: Gisborne Herald, 19/09/1990, p14			