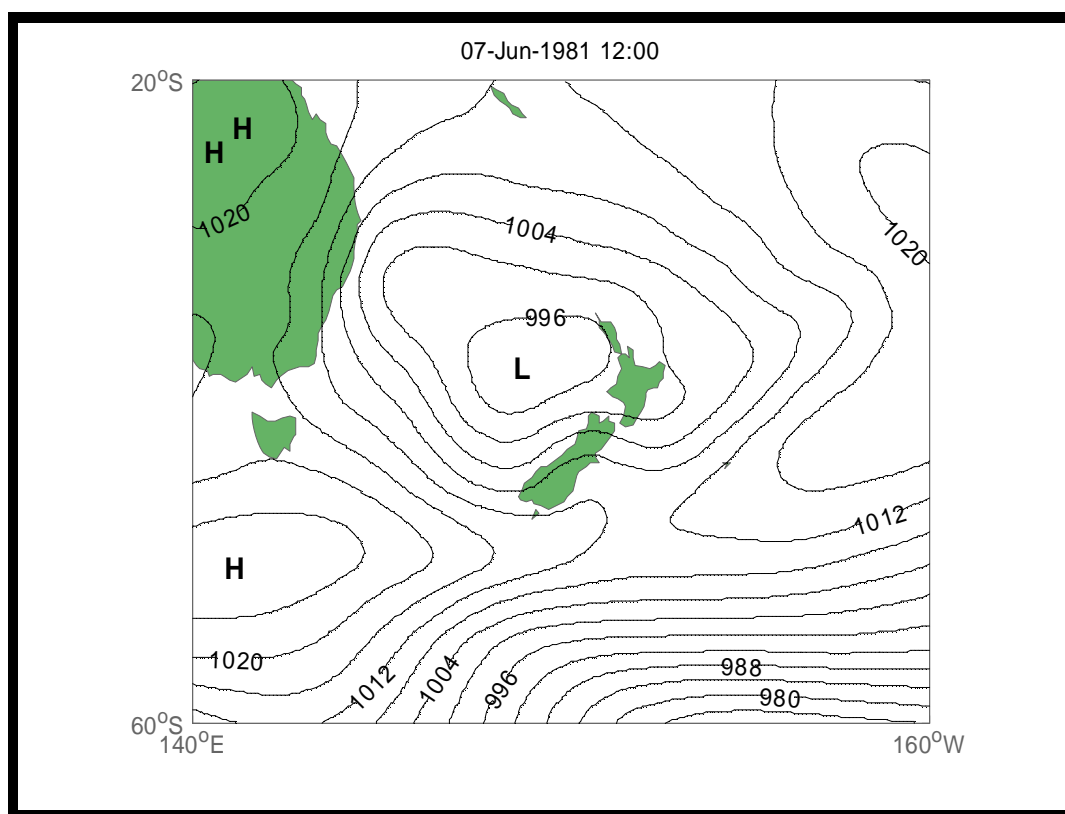


# Coastal Storm Database - Event Summary

Date: **7-9 Jun 1981**  
Event Type: **Wind/Wave**  
Location: **Wellington**  
Origin: **Tasman Sea**  
Type: **East Coast Low**

Wind Direction: **S**  
Gisborne Duration (Hours): **-**  
Wellington Duration (Hours): **38**  
Pressure Gradient: **SE**



## Synoptic Conditions

A cyclone developed northeast of Bass Strait from southern ocean trough and moved across the central North Island. At the start of this event the cyclone was in the Tasman sea and a strong easterly flow on its southern side swept over the eastern South Island and through Cook Strait. On the 8th this cyclone was over the Chatham Islands, with a secondary centre to the west in the eastern Tasman sea, and covered most of NZ and the strong SE airstream continued to affect the lower North Island and Cook Strait region. The pressure gradient was assisted by a ridge extending eastward onto the lower South Island.

## Sea Conditions

Heavy seas around Wellington

## Maximum Wave Statistics

| Location   | Max Wave Height (m) | Period (s) |
|------------|---------------------|------------|
| Wellington | 3.6                 | 7          |
| Napier     | 2.6                 | 7          |
| Gisborne   | 2.8                 | 6          |

\*Highest Significant Wave Height

## Maximum Wind Gusts (kph and dir)

|  | <b>Date</b> | <b>Gisborne</b> | <b>Napier</b> | <b>Wellington</b> |
|--|-------------|-----------------|---------------|-------------------|
|  | 07-Jun-81   | 24 (NE)         | 43 (NW)       | 96 (S)            |
|  | 08-Jun-81   | 33 (S)          | 48 (SW)       | 98 (S)            |
|  | 09-Jun-81   | 33 (SW)         | 37 (SW)       | 74 (S)            |

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| <b>Impact Area</b> | <b>Impacts and Damages</b>   |
|--------------------|--|
| Wellington         | <ul style="list-style-type: none"> <li>• Minor flooding at Eastbourne</li> <li>• Closure of Ngauranga Railway Station in morning because of stormy shoreline</li> <li>• High seas around Wellington</li> </ul> |
| Wairarapa          | <ul style="list-style-type: none"> <li>• Flooding at Wairarapa after 48 hours of torrential rain</li> </ul>  |

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| <b>Data Source</b>   |
|--|
| 1 Farmers Count Flood Cost: Dominion Post, 9/06/1981, p1         |
| 2 Floods Hit Rail, Roads and Stock: Evening Post, 8/06/1981, p12 |
| 3 Damage Light Around Capital: Evening Post, 8/06/1981, p6       |

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