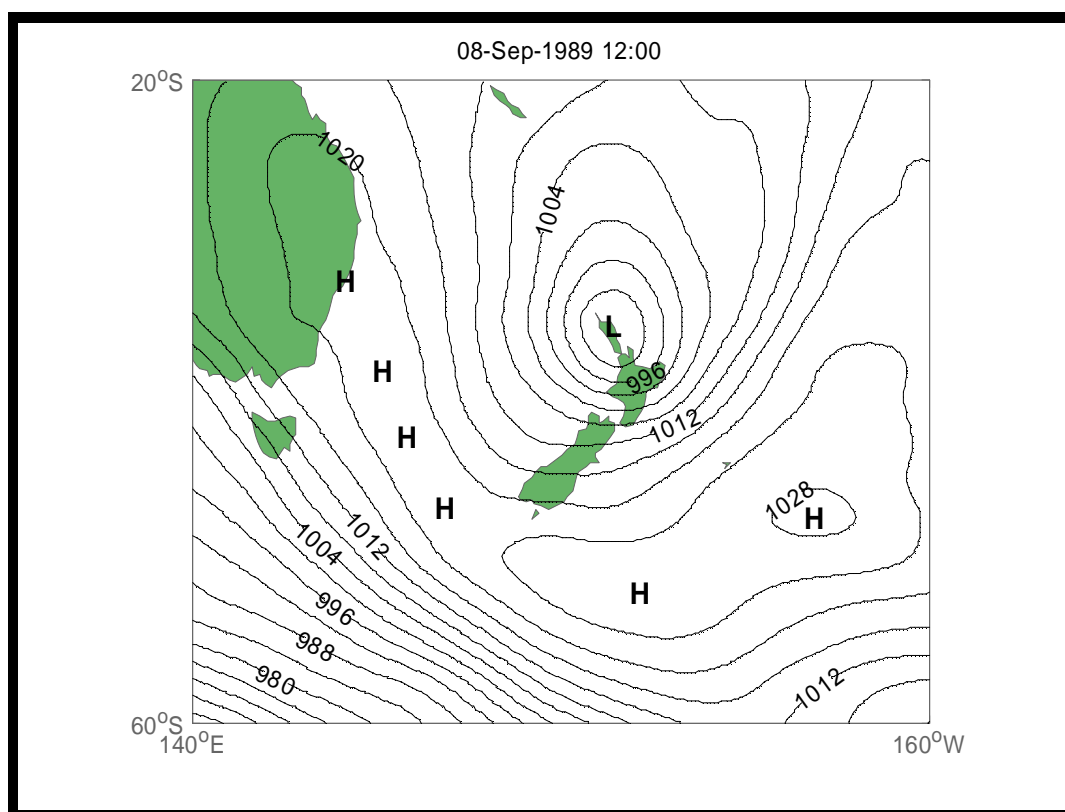


# Coastal Storm Database - Event Summary

|                                 |                                       |
|---------------------------------|---------------------------------------|
| Date: <b>8 Sep 1989</b>         | Wind Direction: <b>E</b>              |
| Event Type: <b>Wind/Erosion</b> | Gisborne Duration (Hours): <b>14</b>  |
| Location: <b>Gisborne</b>       | Wellington Duration (Hours): <b>-</b> |
| Origin: <b>Subtropics</b>       | Pressure Gradient: <b>NE to ENE</b>   |
| Type: <b>East Coast Low</b>     |                                       |



## Synoptic Conditions

A subtropical cyclone formed to the north of NZ and by the 7th completely covered the North Island while its centre was near north Cape. This cyclone created a strong NE to ENE airstream over the upper North Island and spread over the entire eastern North Island on the 9th. As the cyclone moved away eastward, the flow weakened and veered to the ENE. Between the 9th and 11th this ENE airstream continued over NZ and the synoptic situation involved a cyclone to the northeast of East Cape sitting atop a large intense anticyclone to the south of Chatham Islands. However, the pressure gradient gradually weakened over this period. Furthermore, the area of strong winds spread over a large fetch area that extended from near 175E to 160W.

## Maximum Wave Statistics

| Location   | Max Wave Height (m) | Period (s) |
|------------|---------------------|------------|
| Wellington | 4.3                 | 8          |
| Napier     | 4.6                 | 10         |
| Gisborne   | 5.1                 | 8          |

\*Highest Significant 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 |
|--------------------|--|----------|--------|------------|
|                    | 08-Sep-89  | 89 (E)   | 70 (E) | 69 (SE)    |
| <b>Impact Area</b> | <b>Impacts and Damages</b>   |          |        |            |
| Gisborne           | <ul style="list-style-type: none"><li>• An estimated 6ft erosion scarp at Wainui Beach near the beach access closest to the local school</li><li>• Power cuts throughout district</li><li>• Weather conditions holding up loading of ships at Port</li><li>• Flight disruptions due to cross winds</li></ul> |          |        |            |

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**Data Source**

- 1 Power Lost as Coast Drenched: Gisborne Herald, 11/09/1989, p1
  - 2 Bad Weather Still Holding Up Shipping: Gisborne Herald, 8/09/1989, p3
  - 3 District Lashed By Rain, High Winds: Gisborne Herald, 8/09/1989, p1
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