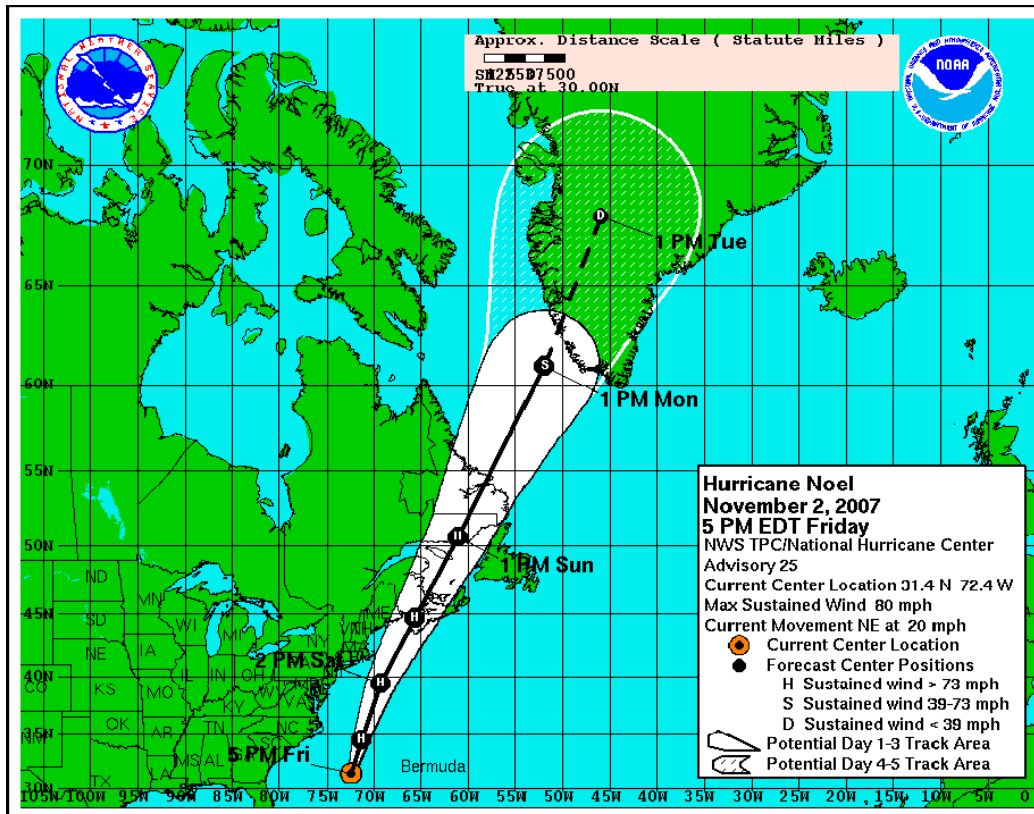


Ex Hurricane Noel passes over North Cape Sunday 4 November 2007

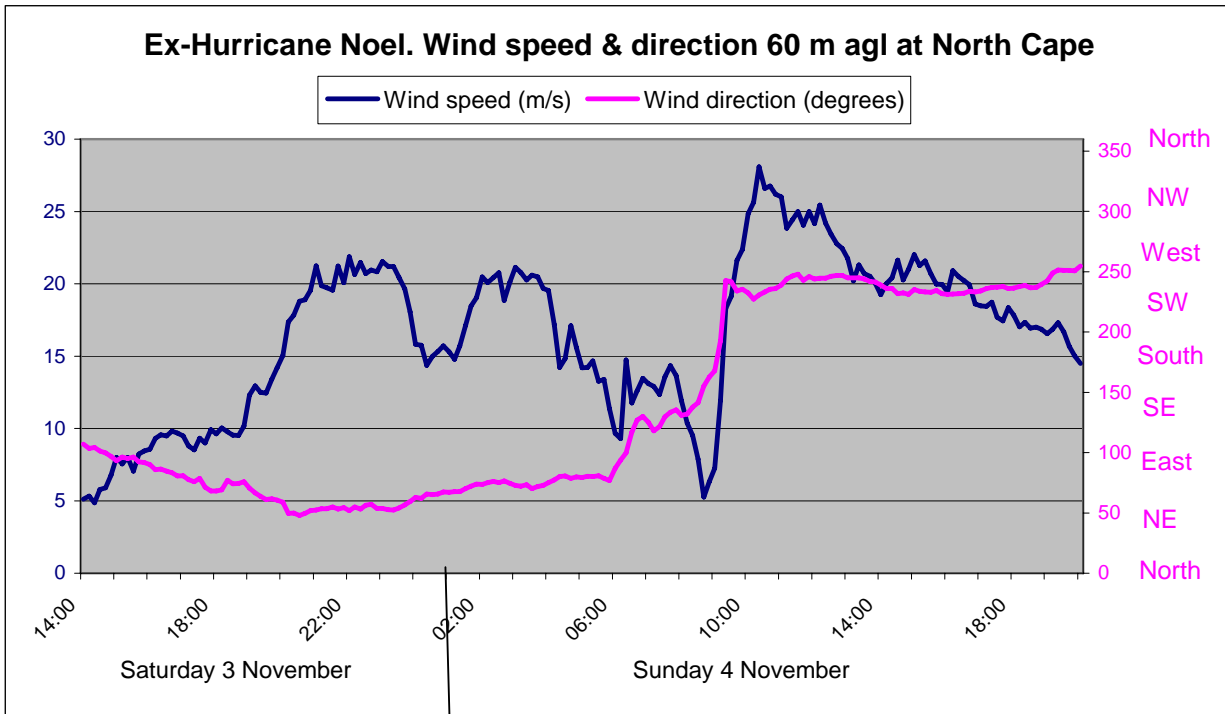
4 November 2007

On the night of Saturday 3 November through to the morning of Sunday 4 November, the remnants of Hurricane Noel passed over PEI. The National Hurricane Centre (NHC) in the US produces predictions of Hurricanes every six hours. The following image is the last prediction from the NHC and was made at 17:00 on Friday 2 November – approximately 24 hours before the first affects of Noel were felt at WEICan's test site at North Cape in Prince Edward Island.



The rapid change in wind speed and direction which took place as the event passed North Cape would seem to indicate that the NHC predictions were accurate and that the former eye of the hurricane passed very close, if not over, North Cape.

The following graph shows 10-minute averaged wind speed (Blue – LH axis. metres per second (m/s)) and wind direction (purple – RH axis. degrees). The X axis starts at 14:00 on Saturday 3rd and extends through to 20:00 on Sunday 4th. This shows that wind speeds picked up gradually from 5 m/s at 14:00 on Saturday to a peak of 21.2 m/s at 03:00 on Sunday. They then, as the ‘eye’ passed over North Cape, declined steadily to a minimum of 5.3 m/s at 08:40 on Sunday before increasing rapidly to a peak 10 minute average of 28 m/s (100 kph) at 10:20 on Sunday. The maximum wind gust was 32 m/s (115 kph) and was measured between 10:20 and 10:30 on Sunday. It is interesting to note that between 05:50 and 09:30 the wind direction shifted 165° from 77° to 242° which is indicative of a rather diffuse eye passing over, or very close, to North Cape.



In looking at the following data it should be noted that daylight saving time took effect at midnight between Saturday and Sunday. As a result all times shown on Sunday should actually have 1 hour SUBTRACTED from them in order to show the real time on Sunday i.e peak wind speeds actually occurred between 09:20 and 09:30 on Sunday.

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