

HOWE GASTMEIER CHAPNIK LIMITED 2000 Argentia Road Plaza 1, Suite 203

Mississauga, ON L5N 1P7 Canada

Tel: (905) 826-4044 Fax: (905) 826-4940

## ENVIRONMENTAL NOISE ASSESSMENT PUBNICO POINT WIND FARM, NOVA SCOTIA

### NATURAL RESOURCES CANADA CONTRACT NRCAN-06-00046

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Natural Resources Canada 4-479, 615 Booth Street Ottawa, Ontario K1A 0E9

#### SUBMITTED BY:

Howe Gastmeier Chapnik Limited (HGC Engineering)
2000 Argentia Road Plaza 1, Suite 203
Mississauga, Ontario

L5N 1P7

Contact: Brian Howe, MEng, MBA, PEng

Nick McCabe, PEng

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#### 1. INTRODUCTION AND SUMMARY

Howe Gastmeier Chapnik Limited (HGC Engineering) was retained by Natural Resources Canada to assess the environmental noise impact from the Pubnico Point Wind Farm in Nova Scotia.

The Pubnico Point Wind Farm has been operating seventeen Vestas 1.8 MW wind turbine generators on the southern tip of the point for the past year. Residences are located north of the wind farm, along Highway 335. A residential neighbour, Mr. Daniel d'Entremont, has expressed concerns regarding the sound impacting his property, which is adjacent to the wind farm and about 330 metres from the closest wind turbine generators. His concerns relate to the audibility of the sound produced by the wind turbine generators, particularly when the wind is from the south as noted in an undated letter to Department of Natural Resources Canada: "When light to moderate winds are blowing the noise towards our house it is at its loudest. Sometimes the fog seems to amplify the noise". During discussions on site, Mr. d'Entremont also expressed concerns about the potential for adverse effects of infrasound - pressure fluctuations at a frequency below that which the human ear can discern - due to the operation of the wind turbine generators.

Engineers from HGC Engineering visited the site during the period from May 5 to 11, 2006 to measure the sound impact of the wind turbine generators at the residence most impacted by the wind farm, at another residential location further to the north, and within the wind farm. The acoustical measurements were conducted using a number of techniques including longer-term monitoring of the overall A-weighted decibel level, detailed real time frequency analysis in 1/3 octaves bands, and discrete frequency spectral analysis. Measurements were conducted over the typical audible frequency range and in the infrasonic range. Records of wind conditions were obtained through the Pubnico Point Wind Farm, and supplemented with Environment Canada data from Yarmouth



Acoustical modelling was completed to correlate the levels measured at various points of reception to sound power data estimated from measurements conducted near the wind turbine generators. The measured and modelled results have been compared to the criteria presented in the Ontario Ministry of the Environment's (MOE) publications NPC-232 Sound Level Limits for Stationary Sources in Class 3 Areas (Rural) and Interpretation of Applying MOE NPC Technical Publications to Wind Turbine Generators. Additional guidelines for assessing and investigating noise from wind turbine generators have been obtained from various international technical papers. The Ontario guidelines are used in this assessment since the province of Nova Scotia does not presently publish technical guidelines for assessing the acoustic impact of wind turbine generators on residences.

The results of the monitoring indicate that the sound of the operating wind turbine generators is clearly audible at the residence of Mr. Daniel d'Entremont (hereafter, the d'Entremont residence), and confirm Mr. d'Entremont's impression that the impact is greatest when the winds are from the south and the humidity is high. Data from the automatic sound level monitor deployed at the d'Entremont residence indicates that, much of the time, the sound levels are not significantly above the typical background sound level expected at the particular wind speed. However, the data also indicates that the sound level from the wind turbine generators can exceed the background sound level in the area by up to 13 dB under certain wind and atmospheric conditions, most notably light winds from the south.

At the d'Entremont residence, the dominant acoustic impact of the wind turbine generators takes the form of a constantly repeated 'swoosh' noise produced by the rotating turbine blades. The sound is relatively broadband, with no clear tonal characteristics, and the amplitude is modulated at the blade passing frequency of 0.8 Hz. The 'swoosh' makes identification of the wind turbine generator sound fairly easy, and observations and the measurements indicate that the impact of the wind farm is continually audible to varying degrees depending on operational and atmospheric conditions.



Sound at infrasonic frequencies is not present at perceptible levels near the wind turbine generators nor at the d'Entremont residence and it is concluded that infrasound is not an issue. This conclusion agrees with internationally recognized research on the low frequency sound produced by wind turbine generators.

An analytical assessment of the impact suggests that the sound levels produced by the wind farm do not exceed the applicable criterion of the Ontario Ministry of the Environment (MOE). However, this conclusion is based on assessment methodologies appropriate under the standards, although it relies on an estimate of the wind turbine generator sound power at a single wind speed of about 9 m/s rather than on the manufacturer's sound power data for all wind speeds, as specified by the standard. The MOE evaluation procedure relies on a model of acoustic dispersion which is generally favourable for the propagation of sound from a source to a receptor, but does not consider specific environmental conditions or effects, and does not purport to define a sound level impact under a worst-case atmospheric condition. An expanded predictive assessment, undertaken by HGC Engineering to investigate the influence of specific atmospheric and wind conditions in greater detail, confirms that the operation of the wind turbine generators can contribute to sound levels exceeding the applicable criteria, although such a prediction methodology is outside the approach prescribed by the MOE.

In conclusion, the sound of the wind turbine generators is continually audible at the d'Entremont residence, but much of the time is not appreciably above the numeric criteria derived under the guidelines of the Ontario Ministry of the Environment. However, under certain wind and atmospheric conditions – most notably when there are light winds from the south and the humidity is high – the sound level impact of the wind turbine generators is significantly greater than the background sound levels.



#### 2. SITE DESCRIPTION

The site of the wind farm, illustrated in Figure 1, is located at the south end of Pubnico Point, Yarmouth County, Nova Scotia, south of the town of West Pubnico. Highway 335 is the one road running through the area, aligned toward the east side of the point. The road also provides the access to the wind farm. The west side of the point is largely undeveloped, and is heavily forested.

The seventeen wind turbine generators installed at the wind farm are arranged in a roughly grid-like pattern, about 360 metres from one another. The wind turbine generators themselves are Vestas V80 1.8 MW units, with a hub height of 80 metres, and a rotor diameter of 80 metres. The three-bladed wind turbine generators do not operate at wind speeds below 5 m/s or above 25 m/s, and are designed to rotate at about 16 rpm across the full operating range. Additional Vestas technical data is attached to this report as Appendix A. During the site visit, sixteen of the seventeen wind turbine generators were operational. Wind turbine generator number 17 was being rebuilt and did not operate. As this wind turbine generator is located on the far west side of the wind farm, this has no impact on the conclusions presented in this report.

Residences are located on either side of Highway 335, north of the site. The d'Entremont residence is the most impacted residence, and is located about 330 metres from the closest wind turbine generators.



#### 3. STUDY METHODOLOGY

Fundamentally, the approach used in this assessment is to combine direct measurements of the impact of the wind turbine generators at the most impacted receptor (the d'Entremont residence) with modelling of the impact over a wider variety of receptor locations. The site visit and measurements were conducted during a week-long sample period, selected well in advance of the visit. Bad weather occurred toward the end of the sample period, including near gale-force winds and rain. Thus the measurements which were conducted between Friday May 5 and Wednesday May 10, 2006, are presented herein. During this period there were sufficient variations in wind speed and direction to allow a meaningful assessment.

To investigate the acoustic impact of the wind turbine generators, an automated sound level monitor was installed in the rear yard area of the d'Entremont residence, configured to continuously measure and record overall A-weighted sound levels. The automatically collected data spanning the period recorded sound levels under a variety of weather conditions, including a period of calm, a period of light winds from the south, and a period of near gale-force winds. This provided a good representative sampling of atmospheric conditions, although the range was not exhaustive. Weather conditions recorded at Yarmouth (about 36 km northwest of West Pubnico) are provided in Appendix B.

Attended measurements, obtained using a real-time frequency analyzer, were also conducted in the area after representatives of HGC Engineering spoke with Mr. d'Entremont to ensure that his concerns were understood. Mr. d'Entremont had previously indicated in an undated letter to the Department of Natural Resources Canada that his concerns centred on the audibility of the wind turbine generators:



The noise is unbearable. It is a constant 24 hour a day intrusion. The noise cannot be ignored...

The environmental assessment stated that the wind farm would be inaudible at 300 m.

When light to moderate winds are blowing the noise towards our house it is at its loudest. Sometimes the fog seems to amplify the noise. There are many foggy days in Pubnico as stated in the environment assessment. When the wind is coming from the north west which is blowing the noise away from our house, we hear an echo creating noise from two directions at once. Whenever we step outside, the noise is as though we were entering storm conditions. When the wind is strong, the noise of the wind in the trees helps to drown out the windmills but we can always distinguish windmill noise from the natural noise of the environment. Sometimes I think the noise is louder at our house than it is amongst the windmills.

During the site visit, Mr. d'Entremont also discussed concerns regarding potential adverse health effects of sound at infrasonic frequencies.

Attended measurements, including spectral sound level measurements in the form of both 1/3 octave band spectra and narrowband spectra were conducted as well as waterfall type measurements recording the variation over time of each measurement frequency band. Both A-weighted sound level measurements and un-weighted sound level measurements were conducted as appropriate, and measurements over the audible frequency ranges as well as at infrasonic frequencies were made.

Acoustical measurements were conducted at the d'Entremont residence, and at a variety of other locations throughout the area near the wind farm, including a comparatively remote location to establish typical background sound levels, and within the wind farm itself to approximately determine the sound power level of a wind turbine generator under a specific wind speed.

The automated measurements were made using a Bruel and Kjaer type 2236 integrating sound level meter. Attended measurements were conducted with a Hewlett Packard type 3569A Real



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Time Frequency Analyzer. Bruel and Kjaer type 4188 microphones were used on both instruments, and correct calibration of the instrumentation was field verified using Bruel and Kjaer type 4231 acoustic calibrators. All of HGC Engineering's instrumentation is calibrated to NIST traceable standards at least once a year.

The measurement methodologies specified in Ontario Ministry of the Environment (MOE) guideline NPC-103, *Procedures* were applied as appropriate during the measurements. Periods of high humidity and fog occurred during the automated measurements. These conditions are recognized by the MOE as being potentially problematic for some instrumentation. However, the specifications for the Bruel and Kjaer type 4188 microphones indicate that the influence of humidity is less than 0.1 dB at 100% relative humidity, and measurements during these periods are important as the issue of fog was specifically raised by Mr. d'Entremont. A detailed description of the measurements is provided in Section 5 of this report.

Under MOE guidelines, mathematical prediction of the impact of wind turbine generators is the principal method for assessing their impact. Thus, modelling was undertaken as part of this assessment, and was used to confirm the monitoring results and to further evaluate the acoustic impact. Additional discussion of the relevant MOE documents is provided below, and the modelling is described in Section 6.



#### 4. CRITERIA

There are no specific technical guidelines for assessing the acoustic impact of wind turbine generators on residential properties published by the province of Nova Scotia. Consequently Natural Resources Canada suggested that the noise guidelines of the Ontario Ministry of the Environment (MOE) form the basis of this assessment. As the MOE guidelines describe a comprehensive approach to the measurement and assessment of industrial noise in general, and cover wind turbine generators specifically, these guidelines were adopted as the primary basis of this assessment. The MOE guidelines are available at the ministry website.<sup>1</sup>

Specifically, MOE guideline NPC-232 Sound Level Limits for Stationary Sources in Class 3 Areas (Rural) provides general assessment guidelines for industrial noise impacting a sensitive land use such as a residential area in an acoustically rural location. An acoustically rural area has sound levels generally dominated by natural sounds, other than the industrial noise source under consideration. During site visits conducted by HGC Engineering, it was clear that most of the time, the background sound at the residences in the vicinity of the wind farm are indeed set by natural sounds such as the wind acting on trees, birds, etc.

The MOE guidelines consider one-hour energy equivalent average sound levels (designated as  $L_{EQ}$ ), rather than instantaneous sound levels, in units of A-weighted decibels (dBA). The human ear has a sensitivity to the loudness of sound which varies depending on the frequency of a sound, and is most sensitive around 1000 Hertz (Hz). The A-weighting system is used to approximate this varying sensitivity.

NPC-232 indicates that the applicable sound level limit for a stationary source of sound is the background sound level. However, where background sound levels are low, exclusionary

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<sup>&</sup>lt;sup>1</sup> http://www.ene.gov.on.ca/envision/gp/index.htm#Noise

minimum criteria apply, with an exclusionary limit of 40 dBA specified for quiet nighttime periods, and 45 dBA specified for quiet daytime periods. Automatic sound level measurements conducted by HGC Engineering suggest that the outdoor sound levels do fall below 40 dBA at the d'Entremont residence, and thus the minimum criteria apply. It is important to note that the MOE guidelines do not require inaudibility of a sound source. In fact, even if the sound levels from a source are less than the criteria, spectral and temporal characteristics of a sound often result in audibility.

Because wind turbines generate more sound as the wind speeds increase, and because increasing wind speeds tend to cause greater background sound levels, wind turbine generators have been identified by the MOE as a unique case, and have provided supplementary guidance for the assessment of wind turbine generator noise in publication *Interpretation for Applying MOE NPC Technical Publications to Wind Turbine Generators* (hereafter, *Interpretation*). This publication, while based on NPC-232, provides criteria for the combined impact of all wind turbine generators in an area as a function of wind speed, thus relaxing to some degree the criteria of NPC-232. The criteria are presented in A-weighted decibels, as follows.

Table 1. MOE Criteria for Wind Turbines.

Wind Speed (m/s)	4	5	6	7	8	9	10	11
Wind Turbine Noise Criteria, NPC-232 (dBA)	40	40	40	43	45	49	51	53

This publication specifies an analytical method of assessment; the manufacturers sound power data is used as input to a model which predicts the acoustic impact at a point of reception over a full range of wind speeds. The publication further specifies that the calculation methodology of ISO 9613-2, *Acoustics-Attenuation of sound during propagation outdoors* be used. ISO 9613-2 yields a receptor sound level under a single assumed propagation condition that does not reflect a realistic meteorological situation, but is generally favourable to the propagation of sound from a source to a receptor (essentially a moderate downwind condition in all directions). ISO 9613-2



does not describe a method for predicting sound levels under a specific meteorological condition, nor does it purport to define a sound level impact under a worst-case atmospheric condition.

The MOE guidelines do not contain specific assessment or measurement methodologies for noise at infrasonic frequencies, as acoustic problems involving infrasound are not common. Infrasound is sound at low frequencies, and is not otherwise different from common higher-frequency sound. ISO defines infrasound as "sound or noise whose frequency spectrum lies mainly in the band from 1 Hz to 20 Hz." Natural sources of infrasound include wind and breaking waves; people are continually subject to sound at infrasonic frequencies. However, the human ear is not particularly sensitive to sound at these frequencies, and we are generally not subject to sufficiently high levels of infrasound to detect its presence.

Various papers and reports dealing with low frequency noise in general, and investigations of low frequency noise produced by wind turbine generators in particular have been published in recent years. Perception thresholds, below which infrasound is generally not discerned have been suggested by various papers including Berglund and Hassmen<sup>2</sup> and Watanabe and Møller<sup>3</sup>. These are summarized in Figure 2. It is generally understood that imperceptible sound levels, including sound at infrasonic frequencies, do not cause health problems. The assessment of the infrasound near the wind turbine generators and at the d'Entremont residence has been based on several of these papers.

<sup>&</sup>lt;sup>3</sup> Watanabe and Møller, "Low frequency hearing thresholds in pressure field and free field", Journal of Low Frequency Noise and Vibration, 1990b



<sup>&</sup>lt;sup>2</sup> Berglund and Hassmén, "Sources and effects of low-frequency noise", Journal of the Acoustical Society of America, 1996

#### 5. MEASUREMENTS AND MEASUREMENT RESULTS

#### **Automatic Sound Level Measurements**

The data gathered by the automatic sound level monitor is shown in Figure 3, together with related wind data and criteria. Appendix C summarizes the Figure 3 data in tabular form. The figure contains five datasets, and the type of information represented by each dataset is described below:

Dataset 1 – The first dataset is the energy equivalent average  $L_{\rm EQ}$  sound levels in 10 minute intervals, shown on Figure 3 in red. The appropriate amplitude information, in units of A-weighted decibels, is provided on the left hand side vertical axis, also in red.

Dataset 2 – The second dataset is the wind speed information measured by an anemometer at the 80 metre high hub of wind turbine generator number 14, which is one of the wind turbine generators closest to the residence. This dataset is shown in Figure 3 in green, and the appropriate scale, displaying wind speed in units of m/s, is shown on the right hand side vertical axis, in green.

Dataset 3 – The third dataset is the wind speed measured at the meteorological station tower shown on Figure 1, and is shown in blue. The appropriate amplitude information is the right hand side vertical axis.

Dataset 4 – The fourth dataset is shown on the chart in gray, and represents the wind speed-dependant criteria derived under *Interpretation*.

Dataset 5 – The fifth dataset (the heavy intermittent black line) represents periods during which the winds were from the south, southwest, or southeast.

Figure 3 has been divided into three time periods, as indicated at the top of the figure. The periods are illustrated individually in Figures 3a through 3c. The periods, and the conditions occurring during each period are described below.

Period 1 – During this interval, stretching from the late afternoon on May 5 until the night of May 6, the winds were light, near the cut-in point of the wind turbine generators, and generally from the south, with high humidity and periods of fog. There was a brief period of calm during the evening on May 6. When calm, the sound levels dropped



briefly below 30 dBA. Measured sound levels during the late evening periods on May 5 and 6 increased to 53 dBA, exceeding the sound level criteria of *Interpretation* by up to 13 dBA.

Period 2 – During this interval, lasting until the evening of May 8, the winds were somewhat higher for much of the period, and were for the most part from the west, north, or northwest. Lower humidity levels were also present through this period. Measured sound levels tracked the criterion of *Interpretation* quite closely. Several elevated sound levels of greater than 60 dBA were measured for short intervals during this period. The time at which these events correlates with activities on the d'Entremont property such as lawn mowing, a conclusion determined through discussion with Mr. d'Entremont and others. These occurrences can be safely discounted from consideration. Toward the end of Period 2, wind were briefly from the south, but the sound level did not increase as noted in Period 1, possibly since the humidity was low.

Period 3 – This interval initially saw winds largely from the west with low wind speeds, at which time measured sound levels were in excess of the criteria of *Interpretation* by a modest amount, and then saw winds rise to near gale force levels, with rain. The data during this period was highly influenced by the wind and rain and is of limited use. A forecast of continuing strong winds and rain caused the measurements to be curtailed.

The key points indicated by the data in the figure are discussed below.

- 1) Most of the time, typical sound levels at the residence are directly proportional to wind speed, suggesting that the approach of MOE publication *Interpretation* (i.e., that the assessment criteria should vary with wind speed) is appropriate. The proportionality is particularly strong during the "second period" portion of the graph.
- 2) At low wind speeds, i.e., at wind speeds below the cut-in point of the wind turbine generators (5 m/s), background sound can fall significantly below 40 dBA, supporting the



conclusion that the residences and wind farm are located in an acoustically rural area under MOE guidelines. This is particularly clear during the calm interval in the "first period" where at about 20:00 on May 6 there was no wind and the sound levels briefly fell as low as 30 dBA.

- During much of the "first period", the winds were generally from the southwest through south, at about 5 m/s, indicating that the wind turbine generators were near the cut-in limit of 5 m/s. High humidity levels also occurred during this period. During these conditions, at two distinct intervals (between about 21:00 on May 5 to about 04:00 on May 6, and again from about 21:00 on May 6 to 01:00 on May 7) the measured sound levels exceed the criteria of *Interpretation* by a significant amount, peaking at an excess of 13 dB. These periods agree well with Mr. d'Entremont's observations. There are a number of potential hypotheses which could account for these excesses, but further efforts would be required to identify the precise cause.
- Much of the time, specifically the "second period" interval from about 02:00 on May 7<sup>th</sup> to about 12:00 on May 8<sup>th</sup>, the winds were generally in the range of 5 to 10 m/s, with varying wind directions but winds originating predominantly from the northwest through the east. During this period, and at the end of this period when the wind was from the south between 5 and 8 m/s, the measured sound levels were generally at the criteria of *Interpretation*. It may be concluded that much of the time, the acoustic impact of the wind turbine generators is acceptable under *Interpretation*.
- 5) During the "third period" the winds began to rise to near gale force, causing high background sound levels due to the action of the wind in the trees and other vegetation.



### **Subjective Audibility**

To assess the audibility of the wind turbine generators at the d'Entremont residence, a variety of observations and acoustic measurements were conducted.

Figure 4a is based on a continuous series of 1/8 second duration spectral measurements made near the wind turbine generators. The horizontal axis represents a 20-second time window, and the vertical axis indicates frequency, which spanned from 25 Hz to 5000 Hz in this case. Colour represents the A-weighted sound level, with warmer colours indicating higher levels. The vertical bands in the chart illustrate a repetitive 'swoosh' sound characteristic of wind turbine generators. The three-bladed wind turbines, rotating at about 16 rpm, have a blade pass frequency of about 0.8 Hz. Thus, over 20 seconds, about 16 'swoosh' sounds would be expected, and can be seen in Figure 4a. The influence of the 'swoosh' is clearest at midband frequencies, centred at about 1000 Hz, where the amplitude modulates by about 5 dB. It is important to realize that while the amplitude of sound in the typically audible range is modulated at a low frequency rate, this does not indicate or imply that the sound has acoustic content in this low frequency range. Low frequency modulation of the sound levels should not be confused with low frequency sound. Other than the 'swoosh', the sound of the turbines was not observed to be appreciably tonal or to have other identifying characteristics.

Figure 4b illustrates a similar 20 second time period, but the measurement was conducted at the d'Entremont residence. The influence of more than one wind turbine generators can be seen, in that there are more amplitude peaks than in Figure 4a, but it is clear from the graph that the characteristic 'swoosh' sound is clearly discernable at the residence; the sound of the wind turbine generators, while fairly broadband, is not continuous 'white' noise. During this measurement, as with the previous measurement, winds were from the northwest at approximately 10 m/s as measured at the closest wind turbine generators, which do not appear to be particularly favourable conditions for sound level impact of the wind turbine generators on the d'Entremont residence. This demonstrates that even when the sound levels are at a relatively low magnitude, and in line with MOE criteria, the sound is audible at the d'Entremont residence.



In summary, the measurements and observations indicate that the sound of the wind turbine generators can be described as having the characteristic 'swoosh' sound typical of wind turbine generators. No tones or other identifying sounds were noted. The measurements and observations indicate that the wind turbine generators are continually audible at the d'Entremont residence to varying degrees which depend on operational and atmospheric conditions.

#### Infrasound

As stated previously in this report, wind and the action of waves generates infrasonic noise. Infrasound is thus present throughout the environment, and can generally be measured anywhere. This observation is significant as it indicates that in the absence of the wind turbine generators, sound at infrasonic frequencies would still be present in the Pubnico area.

To provide an idea of the magnitude of infrasound in the area, measurements of sound at infrasonic frequencies were conducted near to an operating wind turbine generator and adjacent to the d'Entremont residence. The measured sound spectra are illustrated in Figure 5. As shown, the infrasonic sound near the wind turbine generator was low and not found to be appreciably different from that at the d'Entremont residence. It can be concluded that the wind turbine generators are not the dominant source of infrasonic sound in the area.

Because of the broadband nature of the measured infrasound, a precise comparison of the measured spectra to the pure tone threshold of perception shown in with a dashed line in Figure 5 can not be made. Tones are easier for humans to identify than broadband sound, but no tones were observed. Additionally, the measured levels are conservative in that they may be overstated due to wind-induced turbulence at the microphone. However, ignoring these influences, it is clear that the infrasound measured in the area near the Pubnico Point Wind Farm is well below the threshold of perception.



These findings agree well with the findings of a recent paper<sup>4</sup> published in the journal of the Canadian Acoustical Association, which concluded that "infrasound from wind turbine generators is below the audible threshold and of no consequence."

#### 6. MODELLING METHODOLOGY AND RESULTS

The MOE standard *Interpretation* is an analytical, prediction-based standard rather than an assessment method based on receptor measurements. It is not completely appropriate to compare a measured impact at a specific moment in time to a criterion determined under the standard, as the standard indicates that calculations be made using the assumed meteorological conditions of ISO 9613-2, *Acoustics – Attenuation of sound during propagation outdoors – Part 2: General method of calculation* which are generally favourable to the propagation of sound from a source to a receptor, but does not consider specific environmental conditions or effects, and does not purport to define a sound level impact under a worst-case atmospheric condition. To provide a more appropriate assessment of the impact of the Pubnico Point Wind Farm, HGC Engineering has modelled the resulting noise impact at the residential receptors as described below.

Interpretation specifies that the source sound data to be used should be provided by the equipment manufacturer, and should be obtained according to IEC 61400-11, Wind turbine generator systems – Part 11: Acoustic noise measurement techniques. However, due to confidentiality concerns, the manufacturer's data has not been used in this assessment.

Short-duration measurements were conducted on various sides of wind turbine generators number 1 and number 7 at a distance of 80 metres from the wind turbine generator tower in order to estimate the sound power of the wind turbine generators. The measurements occurred from about 10:30 to 11:00 on May 10, and the wind speeds recorded during this period were about 10

<sup>&</sup>lt;sup>4</sup> Leventhall, "Infrasound from Wind Turbines – Fact, Fiction or Deception," Journal of the Canadian Acoustical Association, 2006



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m/s at wind turbine generator number 1 and about 9 m/s at wind turbine generator number 7. The data suggests that during these conditions, a sound power level of about 105 dBA re 10<sup>-12</sup> W is produced by each operating wind turbine generator. While this sound power level is an estimate, in reference to typical power levels for modern wind turbines generators, such a level is exactly what would be expected for a unit with an 80 metre rotor diameter<sup>5</sup>.

This sound power level, with an associated measured octave band spectrum was used as input to a computer model using the Cadna/A acoustic modelling software system. Cadna/A uses the computational procedures of ISO 9613-2, to predict sound contours and levels at specified receptors. The sound sources have been placed in their approximate location and height within the site. The wind turbine generator locations were obtained using a GPS receiver.

The results of the assessment, using the predictive mathematics of ISO 9613-2, suggest a sound level of 49 dBA would be expected at the d'Entremont residence based on a sound power level determined at a wind speed of about 9 m/s. Under *Implementation*, the guideline limit for a receptor in an acoustically rural environment at a wind speed of 9 m/s is 49 dBA, indicating compliance. Figure 6 illustrates the model, and indicates the predicted sound levels at a variety of receptor locations. As the figure indicates, an approximate doubling of the distance from the closest turbines to the d'Entremont residence results in a 6 dB reduction in predicted sound level. Measurements, as shown in Figure 7, confirm this result. The overall A-weighted sound levels of the two spectra shown in this figure are similar, but in the range near 1000 Hz, where the audibility of the 'swoosh' was found to be greatest, the difference is about 6 dB. The elevated high-frequency sound levels measured at the north residential location were caused by birds.

As noted above, ISO 9613-2 and accordingly *Interpretation* does not necessarily consider propagation of sound under worst case environmental conditions. Further investigation into the

<sup>&</sup>lt;sup>5</sup> Hau, "Wind Turbines Fundamentals, Technologies, Application, Economics 2<sup>nd</sup> Edition", Springer-Verlag, 2006



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effects of wind and atmospheric conditions using the methods of the CONCAWE<sup>6</sup> noise assessment protocol was thus undertaken. This protocol allows for predictions under specific wind speeds or atmospheric conditions. The predictions indicate that the predicted 49 dBA level could be as high as 54 dBA at the d'Entremont residence when winds (including winds as light as 5 m/s) are from the south, or as low as 42 dBA with winds from the north. This is consistent with the automatic sound level monitor results, and demonstrates that even with an impact that is acceptable under *Interpretation*, there can be periods and conditions when the sound level impact is higher.

<sup>6</sup> Haag, "The Propagation of Noise from Petrochemical Complexes to Neighbouring Communities", Conservation of Clean Air and Water – Europe (CONCAWE), 1981



#### 7. CONCLUSIONS

HGC Engineering visited West Pubnico and the Pubnico Point Wind Farm in May 2006 to investigate the acoustic impact of the wind farm on the nearby residential receptors. A variety of acoustic measurements were conducted over a range of wind and environmental conditions. The measurements included continuous automatic noise monitoring at the residence of Mr. Daniel d'Entremont. Predictive acoustic modeling, based on on-site sound measurements, was also undertaken.

The automatic sound level monitor data indicates that much of the time, the sound level impact of the wind turbine generators is not significantly greater than the criteria of the Ontario Ministry of the Environment, specifically the criteria derived under publication *Interpretation for Applying MOE NPC Technical Publications to Wind Turbine Generators*, which is based on typical background sound levels under different wind speeds. However, under certain wind and atmospheric conditions when background sound would be expected to be low, the measured sound levels were found to exceed the criteria and expected background sound by up to 13 dB. In particular, sound levels were found to exceed the anticipated background sound during periods when winds were light and from the south, with high humidity.

The sound of the operating wind turbine generators is continually audible at the most impacted points of reception, to varying degrees. No tones or other unusual attributes of the sound were noted or measured, other than the characteristic 'swoosh' of the moving blades.

Measurements made near the wind turbine generators, at the d'Entremont residence, and at a remote location indicate sound at infrasonic frequencies below typical thresholds of perception; infrasound is not an issue.

Acoustic modeling, undertaken to allow a more appropriate comparison of the acoustic impact of the wind turbine generators with the sound level criteria of MOE publication *Interpretation for Applying MOE NPC Technical Publications to Wind Turbine Generators*, indicate that the



# ENVIRONMENTAL NOISE ASSESSMENT, PUBNICO POINT WIND FARM Page 20 NATURAL RESOURCES CANADA CONTRACT NRCAN-06-00046 August 23, 2006

acoustic impact of the wind turbine generators complies with the criteria based on a sound power measured by HGC Engineering under a 9 m/s wind speed. Additional modelling indicates that, notwithstanding this compliance, there are environmental conditions when the sound level impact will be greater than the associated criterion level.

In summary, automated measurements indicate that much of the time the acoustic impact of the wind turbine generators is not appreciably greater than the criteria utilized by the Ontario Ministry of the Environment for wind turbine generators, and the sound levels track the anticipated background sound levels associated with the wind speed as predicted. However, under certain wind and atmospheric the sound level impact of the wind turbine generators is above the criterion of the MOE. This was found to be most significant when winds were light (between 5 and 7 m/s) and from the south, and when high humidity was present. Observations and measurements indicate that the wind turbine generators are continually audible at the d'Entremont residence, to varying degrees. Infrasound was not found to be an issue. Modeling suggests that the impact of the wind turbine generators complies with the Ontario Ministry of Environment Criteria, notwithstanding periods when environmental effects increase the actual sound level above the numeric criteria.



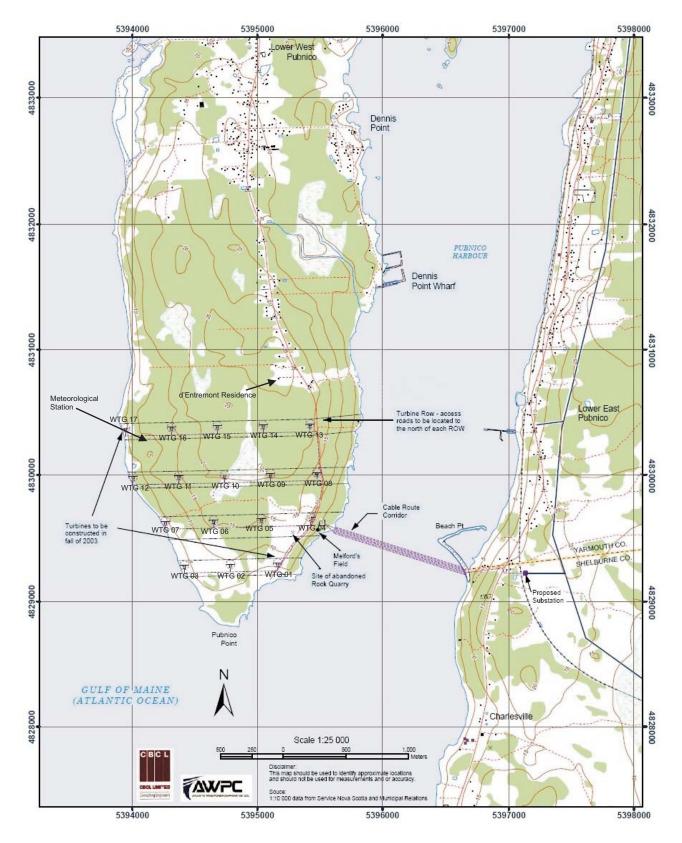
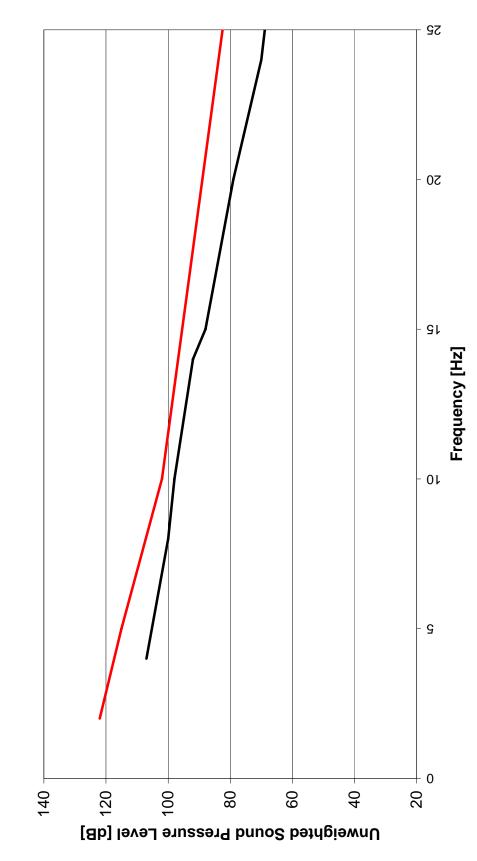


Figure 1: Topographic Map for the Pubnico Point Wind Farm and Surrounding Area

Approximate locations of wind turbine generators, meteorological station and d'Entremont Residence Shown



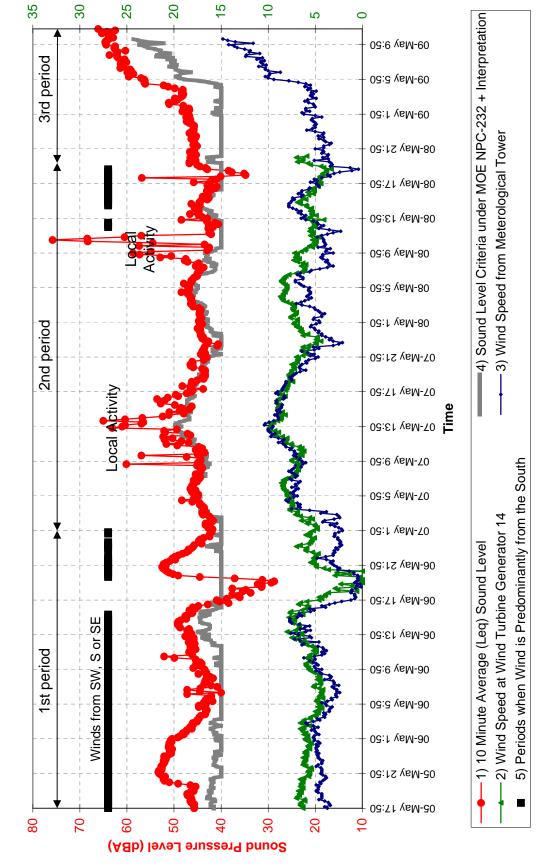
Figure 2: Pure Tone Thresholds of Perception in the Infrasonic Range



--- Threshold of Perception (Watanabe and Moller, 1990) --- Threshold of Perception, (Berglund and Hassmen, 1996)



Figure 3. Sound Levels Measured in Rear Yard of Nearest Residence in Comparison to Wind Speeds at the Pubnico Point Wind Farm and MOE Criteria for Wind Turbines Monitored May 5 to May 9, 2006 by HGC Engineering.



(s/m) beed bniW



Figure 3a. Sound Levels Measured in Rear Yard of Nearest Residence in Comparison to Wind Speeds at the Pubnico Point Wind Farm and MOE Criteria for Wind Turbines Period 1 Data Only

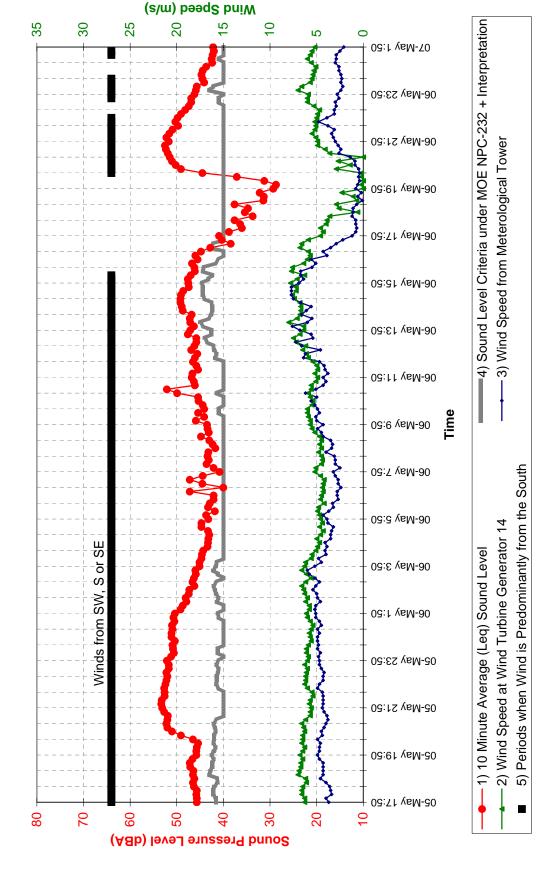
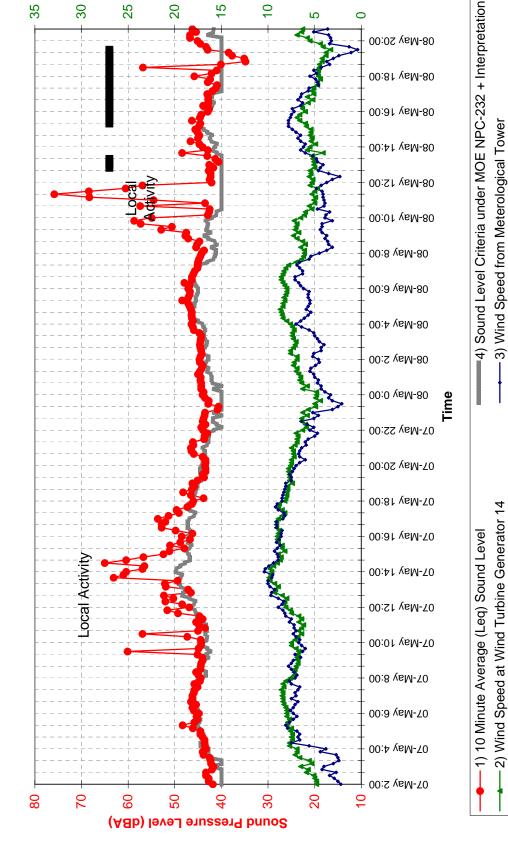




Figure 3b. Sound Levels Measured in Rear Yard of Nearest Residence in Comparison to Wind Speeds at the Pubnico Point Wind Farm and MOE Criteria for Wind Turbines Period 2 Data Only

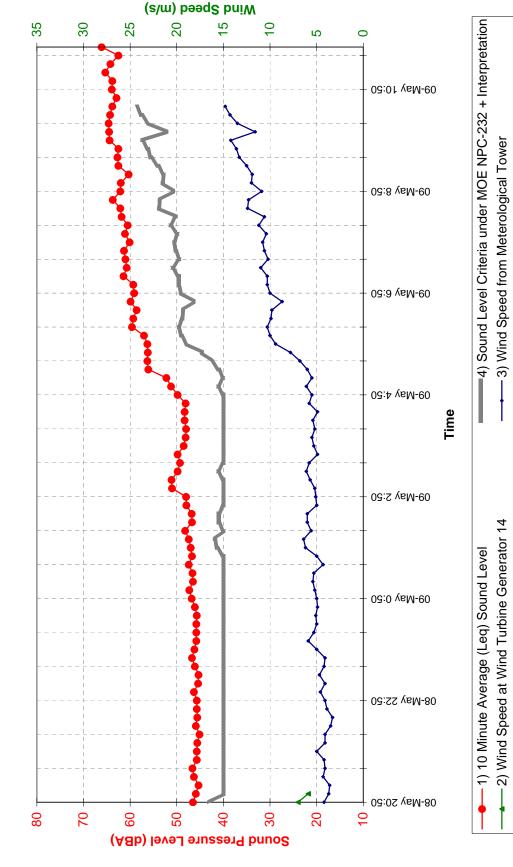


(s/m) beed bniW



5) Periods when Wind is Predominantly from the South

Figure 3c. Sound Levels Measured in Rear Yard of Nearest Residence in Comparison to Wind Speeds at the Pubnico Point Wind Farm and MOE Criteria for Wind Turbines Period 3 Data Only

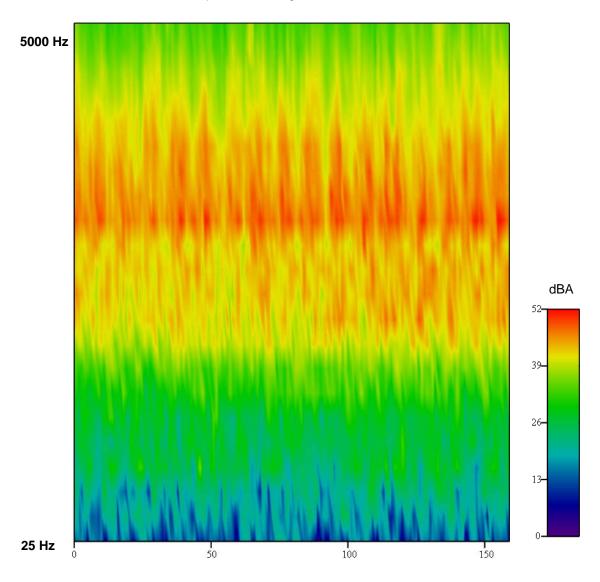




5) Periods when Wind is Predominantly from the South

Figure 4a: Characteristics of Sound Levels Near Wind Turbine Generator

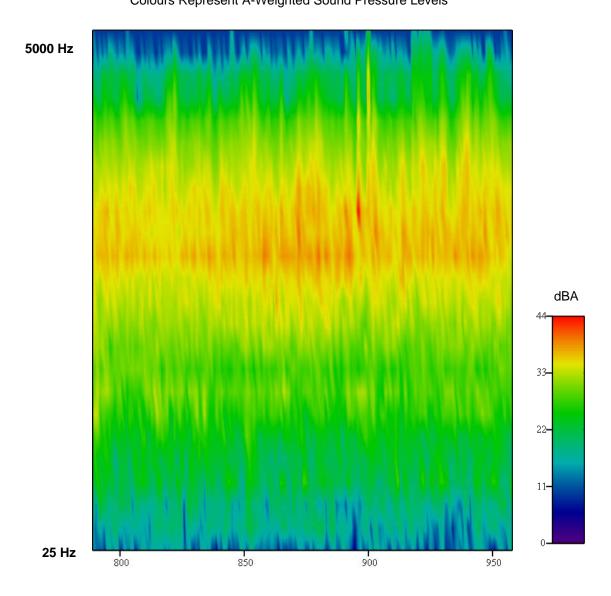
Colours Represent A-Weighted Sound Pressure Levels



Time [ 1/8 seconds ]



Figure 4b: Characteristics of Sound Levels at d'Entremont Residence
Colours Represent A-Weighted Sound Pressure Levels



Time [ 1/8 seconds ]



Unweighted Sound Pressure Level [dB] 140

Figure 5: Infrasound Measurements at Pubnico Point Wind Farm Measurements Conducted May 10, 2006 07:30 to 08:30



52

50

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G

20

Frequency [Hz]

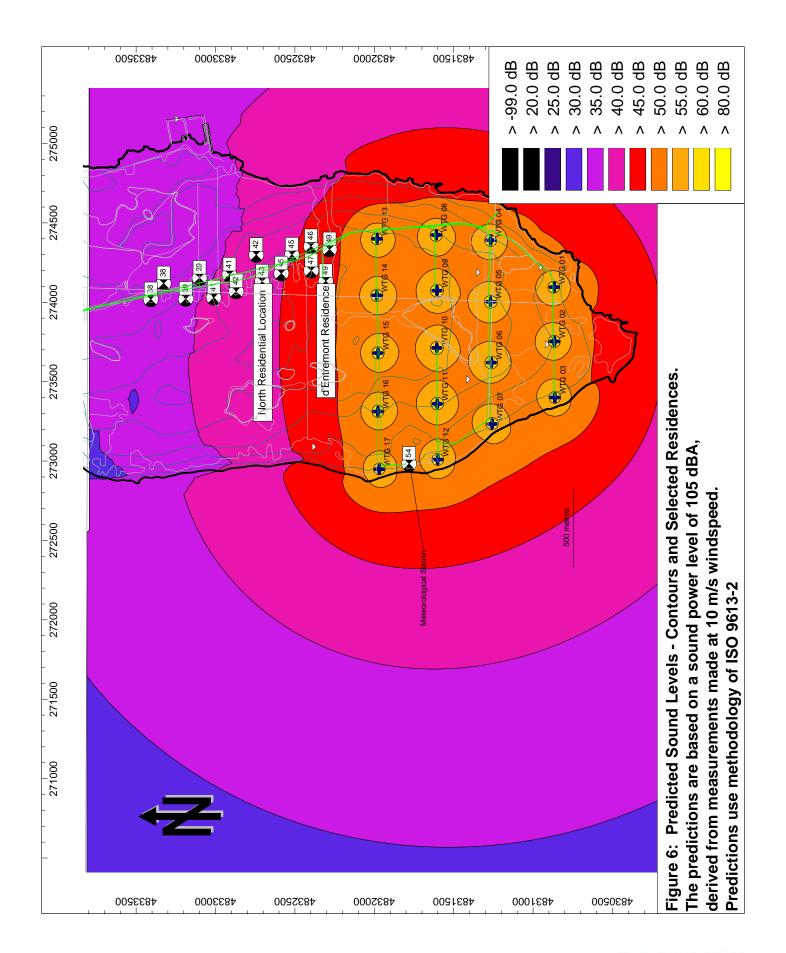
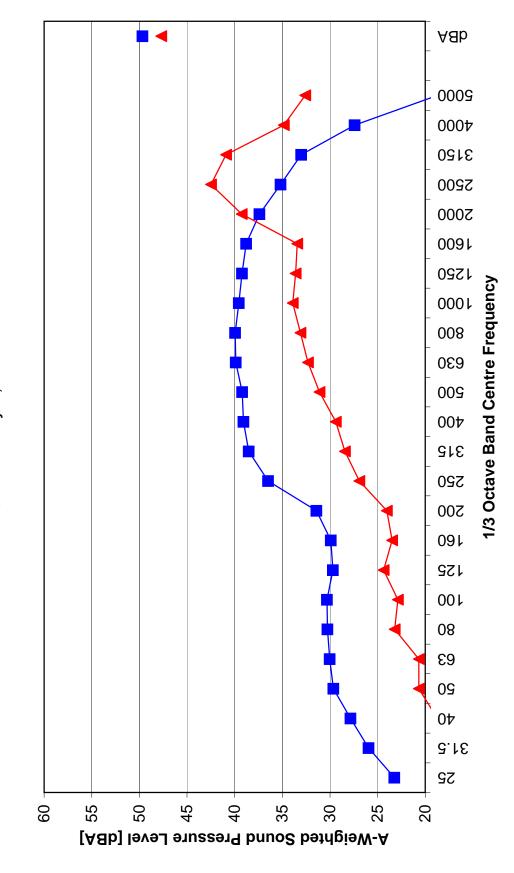




Figure 7: A-Weighted 1/3 Octave Band Sound Spectra Measured at Selected Residences Measurements Conducted May 10, 2006 07:20 to 08:00 North of the Pubnico Point Wind Farm





-Intremont Residence (330 m from closest turbine) -Indicated and Indication (700 m from closest turbine)

**Appendix A: Vestas V80 1.8 MW Wind Turbine Generator Data** 



## V80-1.8 MW Versatile megawattage



Vestas.



### Top of its class

The Vestas V80 has been engineered to make the very most of aggressive sites, as it provides unparallelled productivity in both high and moderate winds. In terms of power output and swept area, it is the best turbine on the market in the 2 MW class. More than 1,000 of these turbines have already been installed around the world, and have proved themselves to be seasoned performers in both onshore and offshore environments. The high energy yield of the V80 makes it an excellent choice for locations where space is limited. However, it also boasts an excellent track record in challenging offshore conditions, where its high operational availability, excellent grid compliance and proven technology make it a competitive choice with respect to both cost and performance.

One of the factors that contribute to the superior performance of the V80 is OptiTip®, its pitch regulation system.

This system features microprocessors that rotate the blades around their longitudinal axes, thus ensuring continuous adjustment to maintain optimal blade angles in relation to the prevailing wind. At the same time, OptiTip® makes it possible to keep sound levels within the limits stipulated by local regulations.

### Optimal output

Another factor that helps to maximize the efficiency and optimize the sound level of the V80 is OptiSlip® technology. The OptiSlip® generator allows the turbine rotor speed to vary between 9 and 19 rpm, depending on conditions. While the technology involved may be advanced, its purpose is simple: to optimize output. It does this by tapping the higher efficiency of slow and variable rotation, storing excess energy in rotational form and exploiting the full force of transient gusts. All told, OptiSlip® boosts annual energy production by around five per cent in relation to traditional fixed-speed turbines.

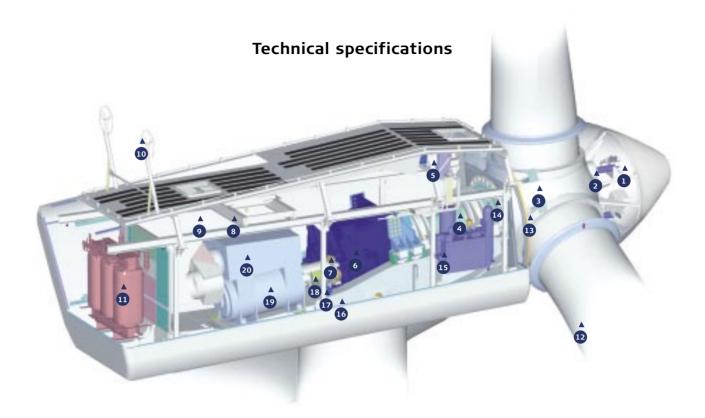
As an added benefit, OptiSlip® also reduces wear and tear on the gearbox, blades and tower on account of lower peak loading. Moreover, as turbine sound is a function of wind speed, the lower rotation speeds made possible by OptiSlip® naturally reduce sound levels.

Finally, OptiSlip® helps the V80 deliver better quality power to the grid, with rapid synchronization, reduced harmonic distortion and less flicker. Quite simply, the V80-1.8 MW turbine is synonymous with more output, better quality power and less mechanical strain and sound.

### Proven performance

Wind power plants require substantial investments, and the process can be very complex. To assist in the evaluation and purchasing process, Vestas has identified four factors that are critical to wind turbine quality: energy production, operational availability, power quality and sound level.

We spend months testing and documenting these performance areas for all Vestas turbines. When we are finally satisfied, we ask an independent testing organisation to verify the results – a practice we call Proven Performance. At Vestas we do not just talk about quality. We prove it.

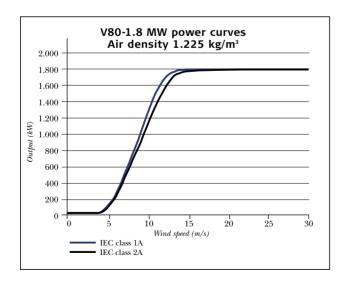


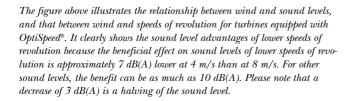
- Hub controller
- 2 Pitch cylinders
- Blade hub
- Main shaft
- Oil cooler

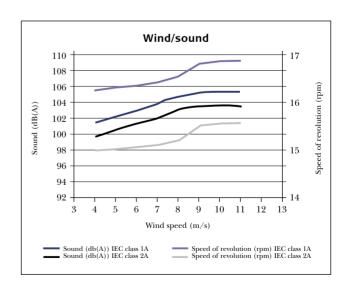
- 6 Gearbox
- Mechanical disc brake
- 8 Service crane
- VMP-Top controller with converter
- 10 Ultrasonic sensors

- High voltage transformer (6-33 kW)
- 12 Blade
- Blade bearing
- Rotor lock system
- 15 Hydraulic unit

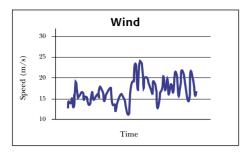
- 16 Machine foundation
- 17 Yaw gears
- Composite disc coupling
- OptiSplip® generator
- 20 Air cooler for generator

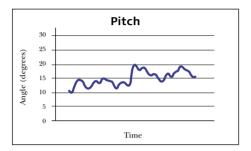


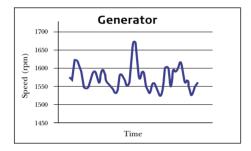


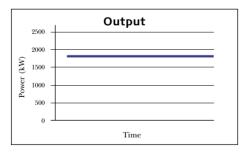


The sound output level can be adjusted by varying the revolution speed of the turbine as illustrated in the figure above. In practice, this means that, for example, the sound level recorded at a distance of 340 m (hub height 78 m) can be reduced from 44.5 to 40.4 dB(A) – i.e. by more than half the recorded level.









OptiSlip® allows the rotor speed to vary within a range of approximately 10 percent in relation to nominal rpm. This minimizes both unwanted fluctuations in the output to the grid supply and the loads on the vital parts of the construction.

## Rotor

Diameter: 80 m Area swept: 5,027 m<sup>2</sup> 15.5/16.8 rpm Nominal revolutions: Number of blades:

Power regulation: Pitch/OptiSlip®

Full blade pitch by three Air brake: separate pitch cylinders

### **Tower**

Hub height (approx.): 60 m, 67 m, 78 m

## Operational data

Cut-in wind speed:

Nominal wind speed

(1,800 kW): 15 m/s Cut-out wind speed: 25 m/s

## Generator

Asynchronous with OptiSlip® Type:

4 m/s

Nominal output: 1,800 kW Operational data: 60 Hz 690 V

### Gearbox

Planet/parallel axles Type:

## Control

Type: Microprocessor-based control of all the

turbine functions with the option of remote monitoring. Output regulation and optimization via OptiSlip® and OptiTip®

pitch regulation.

# Weight (IEC IA/IEC IIA)

Hub height:	60 m	67 m	78 m
Tower:	140 t/124 t	158 t/142 t	203 t/199 t
Nacelle:	67 t	67 t	67 t
Rotor:	37 t	37 t	37 t
Total:	244 t/234 t	262 t/252 t	307 t/309 t

 $t = metric\ tons$ 

# Versatile megawattage



In many fields of engineering, flexibility and efficiency are considered almost diametric opposites – i.e. one can only be improved at the expense of the other. At Vestas, we specialize in finding ways to improve both at the same time. To see how we accomplish this, you need look no further than the V80, the cornerstone of our 2 MW class.

The V80 is a pitch-regulated turbine for medium and high winds that features OptiSlip® variable-speed technology. OptiSlip® allows the rotor speed to vary within a range of approximately 10 percent in relation to nominal rpm. OptiSlip® thereby significantly increases productivity and makes it possible to keep sound levels within the limits stipulated by local regulations.

This flexibility, enhanced by a variety of tower heights, makes the V80 particularly well suited to a wide range of sites.

Together with OptiTip®, our pitch-regulation system, OptiSlip® gives the V80 a competitive edge in its megawatt class. This edge, backed by Vestas' reputation for dependability, superior project management and service, has made the V80 one of the best-selling turbines in the world. The popularity of the turbine means that we are able to keep production costs – and hence your cost per kWh – to a minimum. It is just one more way in which the versatility of the V80 leads to increased efficiency.

## **Vestas Americas**

Vestas USA 111 SW Columbia St., Suite 480 Portland, OR 97201 USA

Tel: 503-327-2000 Fax: 503-327-2001 vestas-americas@vestas.com www.vestas.com

To see a complete list of our sales and service units, visit www.vestas.com

# Vestas Canada

R.R. #5 Kincardine, Ontario N2Z 2X6 Canada Tel: 519-396-6922 Fax: 519-396-6158 vestas-canada@vestas.com www.vestas.com

# Vestas Latin America

Maipu 255 Floor 16 1084 Buenos Aires Argentina Tel: +54 (11) 4326 1022 Fax: +54 (11) 4326 1022 x107 vestas-argentina@vestas.com www.vestas.com **Appendix B: Environment Canada Weather Data (Yarmouth)** 



YARMOUTH A NOVA SCOTIA 43.83

Station Name Province Latitude Longitude Elevation Climate Identifier WMO Identifier TC Identifier -66.09 43 8206500 71603 YQI

All times are specified in Local Standard Time (LST). Add 1 hour to adjust for Daylight Saving Time where and when it is observed.

		Dew Point	Rel Hum	Wind Dir	Wind Spd	Visibility	Stn Press	
Date/Time	Temp (°C)	Temp (°C)	(%)	(10's deg)	(km/h)	(km)	(kPa)	Weather
May 01 2006, 00:00	6.3	1.9	73	9	6	24.1	102.52	Cloudy
May 01 2006, 01:00	7.7	0.2	59	6	7	24.1	102.54	Cloudy
May 01 2006, 02:00 May 01 2006, 03:00	8 8.7	-1.3 -3.1	52 43	6 5	11 19	24.1 24.1	102.55 102.52	Cloudy Cloudy
May 01 2006, 03:00 May 01 2006, 04:00	9.3	-4.4	38	6	15	24.1	102.51	Cloudy
May 01 2006, 05:00	9.6	-4.2	37	6	19	24.1	102.49	Cloudy
May 01 2006, 06:00	9.1	-3.7	40	7	19	24.1	102.57	Cloudy
May 01 2006, 07:00	8.8	-3	43	6	22	24.1	102.55	Cloudy
May 01 2006, 08:00	9.1 9.6	-2.2 -1.6	45 45	6 6	26 26	24.1	102.53 102.49	Cloudy
May 01 2006, 09:00 May 01 2006, 10:00	10.3	-2.1	42	7	22	24.1 24.1	102.49	Cloudy Cloudy
May 01 2006, 11:00	11.1	-2.1	40	7	30	24.1	102.49	Cloudy
May 01 2006, 12:00	10.6	1.8	54	6	20	19.3	102.51	Rain
May 01 2006, 13:00	9.1	5.3	77	5	24	16.1	102.48	Rain
May 01 2006, 14:00	9	5.5	79	5	24	16.1	102.34	Rain
May 01 2006, 15:00	7.4	5.4 6.2	87 93	6 7	20 17	16.1 9.7	102.25 102.28	Rain
May 01 2006, 16:00 May 01 2006, 17:00	7.3 6.5	5.4	93	8	20	9.7	102.28	Rain, Fog Rain, Fog
May 01 2006, 17:00	5.4	4.6	95	8	19	6.4	102.15	Moderate Rain, Fog
May 01 2006, 19:00	5	4.5	97	6	24	4.8	102.09	Moderate Rain, Fog
May 01 2006, 20:00	5.3	5	98	8	22	4.8	102	Rain, Fog
May 01 2006, 21:00	5.7	5.6	99	8	28	4.8	101.97	Rain, Fog
May 01 2006, 22:00	6	5.4	96 07	9 9	33	8 14.5	101.86	Rain, Fog Rain
May 01 2006, 23:00 May 02 2006, 00:00	6.5 6.6	6.1 6.4	97 99	8	35 33	14.5 9.7	101.81 101.72	Rain Showers
May 02 2006, 01:00	6.9	6.9	100	9	30	14.5	101.69	Rain Showers
May 02 2006, 02:00	7.1	7.1	100	9	26	14.5	101.61	Rain Showers
May 02 2006, 03:00	6.8	6.8	100	9	28	4.8	101.56	Rain Showers, Fog
May 02 2006, 04:00	6.8	6.8	100	10	26	3.2	101.5	Fog
May 02 2006, 05:00	6.6	6.6	100	9	28	3.2	101.46	Fog
May 02 2006, 06:00 May 02 2006, 07:00	6.5 6.6	6.5 6.6	100 100	10 9	26 28	2.4 1.6	101.45 101.46	Fog Fog
May 02 2006, 07:00 May 02 2006, 08:00	6.9	6.9	100	8	28	1.6	101.42	Fog
May 02 2006, 09:00	7.5	7.5	100	8	28	1.6	101.42	Fog
May 02 2006, 10:00	8	8	100	8	24	1.6	101.39	Fog
May 02 2006, 11:00	8.6	8.6	100	8	24	4.8	101.4	Fog
May 02 2006, 12:00	9.3	9.2	99	8	26	9.7	101.35	Fog
May 02 2006, 13:00 May 02 2006, 14:00	9.3 9.8	9.3 9.3	100 97	8 8	28 26	12.9 16.1	101.32 101.28	Cloudy Cloudy
May 02 2006, 14:00 May 02 2006, 15:00	9.7	9.1	96	8	19	16.1	101.21	Cloudy
May 02 2006, 16:00	9.7	9.1	96	8	30	16.1	101.16	Cloudy
May 02 2006, 17:00	9.1	8.7	97	7	30	12.9	101.15	Cloudy
May 02 2006, 18:00	8.8	8.5	98	8	26	12.9	101.12	Cloudy
May 02 2006, 19:00	8.5	8.5	100	8	24	9.7	101.13	Fog
May 02 2006, 20:00 May 02 2006, 21:00	8.4 8.4	8.4 8.4	100 100	7 9	24 26	4.8 4.8	101.15 101.16	Fog Drizzle, Fog
May 02 2006, 21:00	8.3	8.3	100	8	28	3.2	101.10	Drizzle, Fog
May 02 2006, 23:00	8.4	8.4	100	8	24	3.2	101.08	Fog
May 03 2006, 00:00	8.6	8.6	100	8	22	3.2	101.05	Fog
May 03 2006, 01:00	8.7	8.7	100	7	20	3.2	100.99	Drizzle, Fog
May 03 2006, 02:00	8.5	8.5	100	8	26	3.2	100.93	Drizzle, Fog
May 03 2006, 03:00 May 03 2006, 04:00	8.6 8.7	8.6 8.7	100 100	8 7	24 28	3.2 3.2	100.89 100.84	Fog Fog
May 03 2006, 05:00	8.9	8.9	100	7	24	8	100.82	Fog
May 03 2006, 06:00	9	9	100	7	26	4.8	100.86	Fog
May 03 2006, 07:00	9.7	9.2	97	7	24	16.1	100.86	Cloudy
May 03 2006, 08:00	10	9.9	99	7	22	11.3	100.85	Drizzle
May 03 2006, 09:00	11.7	10.9	95 01	7	26	16.1	100.81	Cloudy
May 03 2006, 10:00 May 03 2006, 11:00	12.4 12.1	11 10.7	91 91	7 8	22 26	16.1 24.1	100.8 100.79	Cloudy Cloudy
May 03 2006, 11:00	14.3	10.7	86	8	30	24.1	100.79	Cloudy
May 03 2006, 12:00 May 03 2006, 13:00	14.4	11.6	83	8	26	24.1	100.72	Cloudy
May 03 2006, 14:00	15.1	11.5	79	8	24	24.1	100.59	Mostly Cloudy
May 03 2006, 15:00	15.2	11.5	79	8	24	24.1	100.54	Mostly Cloudy
May 03 2006, 16:00	14.6	11.2	80	8	22	24.1	100.52	Cloudy
May 03 2006, 17:00 May 03 2006, 18:00	14.8 14.4	11.3 12.2	80 87	7 6	22 19	24.1 19.3	100.45 100.44	Mostly Cloudy Rain Showers
IVIAY 00 2000, 10.00	14.4	14.4	OI.	U	19	13.3	100.44	Italii Ollowels

Section   Sect	rate/Time	Temp (°C)	Dew Point Temp (°C)	Rel Hum (%)	Wind Dir (10's deg)	Wind Spd (km/h)	Visibility (km)	Stn Press (kPa)	Weather
May 03 2006, 2000					, ,,	, ,	. ,		
May 03 2006, 22:00	•								
May 04 2006, 02000 12.4 11 91 3 20 24.1 100.32 Rain Showers May 04 2006, 01000 12.4 11 91 3 20 24.1 100.26 Cloudy May 04 2006, 02000 12.7 10.8 88 3 22 19.3 100.2 Rain Showers May 04 2006, 02000 12.7 10.8 88 4 24 19.3 100.1 Rain Showers May 04 2006, 02000 12.3 11 92 5 15 15 19.3 100.1 Rain Showers May 04 2006, 04000 11.9 11.3 96 5 15 15 14.5 100.09 Rain Showers May 04 2006, 04000 11.6 11.9 11.3 96 5 15 15 14.5 100.09 Rain Showers May 04 2006, 04000 11.6 11.9 11.3 96 5 15 15 14.5 100.09 Rain Showers May 04 2006, 04000 11.6 11.6 11.2 97 5 5 19 18.3 100.03 Rain Showers May 04 2006, 04000 11.6 11.6 11.2 97 5 5 19 18.3 100.00 Rain Showers May 04 2006, 04000 11.6 11.6 11.2 97 7 5 19 18.3 100.00 Rain Showers May 04 2006, 04000 11.6 11.6 11.2 97 7 5 19 18.3 100.00 Rain Showers May 04 2006, 04000 11.6 11.6 11.2 9 17 18.3 100.00 Rain Showers May 04 2006, 04000 12.2 11.1 93 3 7 2 0 24.1 11.00.1 Cloudy May 04 2006, 09000 12.9 11.1 98 5 20 24.1 11.00.1 Cloudy May 04 2006, 10000 14.2 11.6 84 5 20 24.1 11.00.1 Cloudy May 04 2006, 11000 16.6 12.6 77 6 24 24.1 11.00.1 Cloudy May 04 2006, 11000 16.6 12.6 77 6 24 24.1 11.00.1 Cloudy May 04 2006, 13000 19 13.8 72 8 20 24.1 11.00.1 Cloudy May 04 2006, 13000 19 13.8 72 8 20 24.1 11.00.1 Cloudy May 04 2006, 14000 16.6 12.7 78 24 13 24.1 100.0 Cloudy May 04 2006, 15000 16.6 12.7 78 24 13 24.1 100.0 Cloudy May 04 2006, 15000 16.6 12.7 78 24 13 24.1 100.0 Cloudy May 04 2006, 15000 17.8 13.8 77 26 15 24.1 99.9 Mosty Cloudy May 04 2006, 15000 17.8 13.8 77 26 15 24.1 99.9 Mosty Cloudy May 04 2006, 15000 17.8 13.8 77 26 15 24.1 99.9 Mosty Cloudy May 04 2006, 15000 17.8 13.8 77 26 15 24.1 99.9 Mosty Cloudy May 04 2006, 15000 17.3 6.8 97 27 26 15 24.1 99.9 Mosty Cloudy May 04 2006, 15000 17.5 3 11.8 77 26 19 2 24 1 19.3 100.0 Cloudy May 04 2006, 15000 17.5 3 11.8 77 2 9 9 24.1 19.3 100.0 Cloudy May 04 2006, 15000 17.5 3 11.8 77 2 9 9 19.1 11.0 10.1 Cloudy May 04 2006, 15000 17.5 7 2 9 9 19.1 11.0 10.1 Cloudy May 04 2006, 100.0 7.7 1.5 9 10.0 12 11.0 10.0 12 10.0 10.0 May 04 2006, 100.0 7.7 1.5									•
May 04 2006, 01:00  12.3  10.5  88  3 22  19.3  10.02  Rain Showers  May 04 2006, 02:00  12.7  10.8  88  4 24  19.3  100.1  Rain Showers  May 04 2006, 03:00  12.3  11  12.5  5 15  13.3  100.1  Rain Showers  May 04 2006, 03:00  11.9  11.9  11.3  96  5 15  11.9  11.8  11.8  10.0  11.9  11.8  11.9  11.8  11.9  11.9  11.1  11.9  11.1  11.9  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.1  11.	•	12.8		84	5	22	19.3	100.33	•
May 04 2006, 01:00   12.3   10.5   89   3   22   19.3   100.2   Rain Showers	•								
May 04 2006, 02:00									•
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May 04 2006, 0:00									
May 04 2006, 09:00   12-9   11-1   89   5   20   24-1   100-14   Cloudy	lay 04 2006, 07:00	11.4	10.7	95	6	20	24.1	100.12	Cloudy
May 04 2006, 10:00  May 04 2006, 20:00  May 04 2006, 10:00  May 04 2006, 10:00  May 04 2006, 20:00  May 04	•								•
May 04 2006, 11:00									•
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May 04 2006, 13:00									•
May 04 2006, 15:00  16:09  12.8  77  26  15:09  16:09  17.8  13.3  75  26  11  24.1  99.94  Mostly Cloudy  May 04 2006, 16:00  17.8  13.3  75  26  11  24.1  99.94  Mostly Cloudy  May 04 2006, 16:00  17  12.9  77  29  7  29  7  24.1  99.33  Cloudy  May 04 2006, 19:00  9.7  8.3  91  20  11  21  24.1  10.0.12  Cloudy  May 04 2006, 19:00  7.3  6.6  95  27  13  24.1  10.0.13  Cloudy  May 04 2006, 20:00  7.3  6.6  95  27  13  24.1  10.0.13  Cloudy  May 04 2006, 20:00  7.4  6.9  9.7  28  9.7  26  6.2  11  10.11  Cloudy  May 04 2006, 20:00  7.4  6.9  9.7  28  9.7  28  9.7  29  10.11  May 04 2006, 20:00  7.3  6.8  9.7  27  28  9.1  19.3  10.0.18  Cloudy  May 05 2006, 00:00  7.5  7.2  7.2  98  29  30  19  14.5  10.12  Cloudy  May 05 2006, 00:00  7.5  7.2  7.2  7.0  7.3  7.0  7.0  7.0  7.0  7.0  7.0									
May 04 2006, 15:00  16:9  17:8  13:3  17:5  26  11:1  24:1  99:94  Mostly Cloudy May 04 2006, 17:00  15:9  11:8  17:2  26  17:2  27:7  28:0  91:4  11:4  93:3  Mostly Cloudy May 04 2006, 17:00  18:9  17:1  12:9  17:2  17:2  17:2  18:9  17:2  18:9  18:9  19:3  10:00:00  17:8  10:00:00  17:8  10:00:00  17:8  10:00:00  17:8  10:00:00  17:8  10:00:00  17:8  10:00:00  17:8  10:00:00  17:8  10:00:00  17:8  10:00:00  17:8  10:00:00  17:8  10:00:00  17:8  10:00:00  17:8  10:00:00  17:8  10:00:00  17:8  10:00:00  17:8  10:00:00  17:8  10:00:00  17:8  10:00:00  17:8  10:00:00  17:8  10:00:00  17:8  10:00:00  17:8  10:00:00  17:8  10:00:00  17:8  10:00:00  17:8  10:00:00  17:8  10:00:00  17:8  10:00:00  17:8  10:00:00  17:8  10:00:00  17:8  10:00:00  17:8  10:00:00  17:8  10:00:00  17:8  10:00:00  17:8  10:00:00  17:8  10:00:00  17:8  10:00:00  17:8  10:00:00  17:8  10:00:00  17:8  17:8  17:8  17:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8  18:8	•								
May 04 2006, 16:00  17.8  13.3  75  26  11  24.1  99.94  Mostly Cloudy  May 04 2006, 18:00  17  12.9  77  29  7  21  11  24.1  100.02  Mostly Cloudy  May 04 2006, 18:00  7.3  6.6  95  27  13  24.1  100.13  Cloudy  May 04 2006, 20:00  7.6  7.1  97  22  4  19.3  100.18  Cloudy  May 04 2006, 20:00  7.6  7.1  97  22  4  19.3  100.18  Cloudy  May 04 2006, 20:00  7.6  7.1  97  22  4  19.3  100.18  Cloudy  May 04 2006, 20:00  7.6  7.1  97  22  4  19.3  100.18  Cloudy  May 04 2006, 20:00  7.3  6.8  97  27  6  24.1  100.12  Cloudy  May 04 2006, 20:00  7.3  6.8  97  28  9  19.3  100.11  Cloudy  May 05 2006, 00:00  7.5  7.2  98  29  15  19.3  100.11  Cloudy  May 05 2006, 02:00  7.3  7.2  99  30  19  14.5  100.12  Cloudy  May 05 2006, 02:00  7.3  7.2  99  30  19  14.5  100.12  Cloudy  May 05 2006, 04:00  7.5  7.2  100  27  7  3.2  100.00  May 05 2006, 04:00  7.5  7.6  7.6  7.6  7.6  7.6  7.6  7.6									The state of the s
May 04 2006, 17:00  May 04 2006, 18:00  17  May 04 2006, 18:00  17  May 04 2006, 19:00  9.7  8.3  91  20  11  24.1  100.12  Mostly Cloudy  May 04 2006, 19:00  7.3  6.6  95  27  13  24.1  100.13  Cloudy  May 04 2006, 20:00  7.4  6.9  9.7  22  4  19.3  100.18  Cloudy  May 04 2006, 21:00  7.4  6.9  9.7  26  6  24.1  100.12  Cloudy  May 04 2006, 22:00  7.4  6.9  9.7  27  6  6  24.1  100.12  Cloudy  May 04 2006, 23:00  7.2  6.8  9.7  27  6  6  24.1  100.12  Cloudy  May 05 2006, 00:00  7.5  7.2  98  99  15  19.3  100.11  Cloudy  May 05 2006, 03:00  7.2  7.2  98  99  15  19.3  100.10  Cloudy  May 05 2006, 03:00  7.3  7.2  99  30  19  14.5  100.12  Cloudy  May 05 2006, 03:00  7.5  7.5  7.5  100  28  6  3.2  100.12  Fog  May 05 2006, 05:00  8.2  8.2  100  28  9  18  100  May 05 2006, 05:00  7.6  7.6  7.6  100  29  15  12.2  May 05 2006, 05:00  8.2  8.2  100  28  9  18  100  May 05 2006, 05:00  8.5  8.5  100  28  6  0.8  100.12  Fog  May 05 2006, 07:00  8.5  8.5  100  28  6  0.8  100.12  Fog  May 05 2006, 09:00  9.1  9.1  100  28  6  0.8  100.12  Fog  May 05 2006, 09:00  8.5  8.5  8.5  100  28  6  0.8  100.12  Fog  May 05 2006, 09:00  9.6  9.6  9.6  9.6  100  27  7  8.7  94  May 05 2006, 10:00  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10.9  10	•								
May 04 2006, 19:00	•								
May 04 2006, 2000         7.3         6.6         95         27         13         24.1         100.13         Cloudy           May 04 2006, 22:00         7.4         6.9         97         26         6         24.1         100.18         Cloudy           May 04 2006, 23:00         7.3         6.8         97         27         6         24.1         100.18         Cloudy           May 05 2006, 0:00         7.2         6.8         97         27         6         24.1         100.12         Cloudy           May 05 2006, 0:00         7.2         6.8         97         28         9         19.3         100.01         Cloudy           May 05 2006, 0:00         7.3         7.2         98         29         15         19.3         100.01         Cloudy           May 05 2006, 0:00         7.3         7.2         100         27         7         3.2         100.02         Post 2006, 100.02         Post 2006, 2006	lay 04 2006, 18:00						24.1	99.93	Cloudy
May 04 2006, 21:00 7.6 7.1 97 22 4 19.3 100.18 Cloudy May 04 2006, 22:00 7.4 6.9 97 26 6 6 24.1 100.12 Cloudy May 04 2006, 23:00 7.3 6.8 97 27 6 24.1 100.12 Cloudy May 05 2006, 00:00 7.2 6.8 97 28 9 19.3 100.11 Cloudy May 05 2006, 00:00 7.5 7.2 98 29 15 19.3 100.12 Cloudy May 05 2006, 00:00 7.3 7.2 99 30 19 14.5 100.12 Cloudy May 05 2006, 03:00 7.2 7.2 100 27 7 3.2 100.12 Cloudy May 05 2006, 03:00 7.2 7.2 100 27 7 3.2 100.12 Cloudy May 05 2006, 05:00 7.6 7.6 7.6 100 28 6 3.2 100.12 Fog May 05 2006, 05:00 8.2 8.2 100 28 9 0.8 100.12 Drizzle, Fog May 05 2006, 06:00 8.2 8.2 100 28 9 0.8 100.12 Drizzle, Fog May 05 2006, 07:00 8.5 8.5 100 28 9 0.8 100.12 Drizzle, Fog May 05 2006, 07:00 8.5 8.5 8.5 100 28 13 0.4 100.23 Drizzle, Fog May 05 2006, 08:00 9.1 9.1 100 28 13 0.4 100.23 Drizzle, Fog May 05 2006, 08:00 9.1 9.1 9.1 100 28 13 0.4 100.23 Drizzle, Fog May 05 2006, 08:00 9.1 9.1 9.1 100 25 9 4.8 100.24 Fog May 05 2006, 10:00 10.9 10.9 10.9 10.0 25 9 4.8 100.24 Fog May 05 2006, 10:00 13 11.6 91 16 13 16.1 100.21 Mostly Cloudy May 05 2006, 10:00 13.5 11.9 84 18 13 24.1 100.11 Mainly Clear May 05 2006, 10:00 15.9 12.3 79 18 15 24.1 100.11 Mainly Clear May 05 2006, 10:00 15.9 12.3 79 18 15 24.1 100.14 Mainly Clear May 05 2006, 10:00 15.9 9.3 90 16 13 24.1 100.14 Mainly Clear May 05 2006, 10:00 11.5 9.7 89 18 19 24.1 100.14 Mainly Clear May 05 2006, 10:00 11.5 9.7 89 18 19 24.1 100.14 Mainly Clear May 05 2006, 10:00 10.9 9.3 90 16 13 24.1 100.16 Mostly Cloudy May 05 2006, 10:00 10.9 9.3 90 16 13 24.1 100.16 Mostly Cloudy May 05 2006, 10:00 10.9 9.3 90 16 13 24.1 100.16 Mostly Cloudy May 05 2006, 10:00 10.9 9.3 90 16 13 24.1 100.16 Mostly Cloudy May 05 2006, 10:00 10.9 9.3 90 16 13 24.1 100.16 Mostly Cloudy May 05 2006, 10:00 10.9 9.3 90 16 13 24.1 100.16 Mostly Cloudy May 05 2006, 10:00 10.9 9.3 90 16 13 24.1 100.16 Mostly Cloudy May 05 2006, 10:00 10.9 9.9 9.3 90 16 13 24.1 100.16 Mostly Cloudy May 05 2006, 10:00 10.9 9.9 9.9 100 18 15 0.4 100.25 Pog May 06 2006, 20:00 8.5 8.5 100 18 15 0.4 100.25 Pog May 06 2006, 20:	•								
May 04 2006, 22:00         7.4         6.9         97         26         6         24.1         100.18         Cloudy           May 05 2006, 00:00         7.2         6.8         97         27         6         24.1         100.12         Cloudy           May 05 2006, 00:00         7.5         7.2         98         29         15         19.3         100.01         Cloudy           May 05 2006, 00:00         7.3         7.2         99         30         19         14.5         100.12         Cloudy           May 05 2006, 03:00         7.2         7.2         100         27         7         3.2         100.08         Dirzzle, Fog           May 05 2006, 04:00         7.5         7.5         100         28         6         3.2         100.12         Fog           May 05 2006, 06:00         8.2         8.2         8.2         100         28         6         0.8         100.12         Fog           May 05 2006, 06:00         8.5         8.5         100         28         9         0.8         100.12         Drizzle, Fog           May 05 2006, 08:00         9.1         9.1         100         28         13         0.4         100.23         Dr									•
May 04 2006, 23:00         7.3         6.8         97         27         6         24.1         100.12         Cloudy           May 05 2006, 00:00         7.2         6.8         97         28         9         19.3         100.11         Cloudy           May 05 2006, 02:00         7.5         7.2         98         29         15         19.3         100.09         Cloudy           May 05 2006, 03:00         7.2         7.2         190         27         7         7.2         100.00         Drizzle, Fog           May 05 2006, 04:00         7.5         7.5         100         28         6         3.2         100.12         Fog           May 05 2006, 06:00         8.2         8.2         100         28         9         0.8         100.12         Drizzle, Fog           May 05 2006, 06:00         8.5         8.5         100         28         6         0.8         100.12         Drizzle, Fog           May 05 2006, 06:00         9.6         9.6         100         27         6         1         100.24         Fog           May 05 2006, 08:00         9.6         9.6         100         27         6         1         100.24         Fog	•								•
May 05 2006, 00:00									•
May 05 2006, 01:00         7.5         7.2         98         29         15         19.3         100.09         Cloudy           May 05 2006, 02:00         7.3         7.2         99         30         19         14.5         100.12         Cloudy           May 05 2006, 03:00         7.2         7.2         100         27         7         3.2         100.08         Drizzle, Fog           May 05 2006, 05:00         7.6         7.6         100         28         6         3.2         100.12         Fog           May 05 2006, 06:00         8.2         8.2         100         28         9         0.8         100.12         Drizzle, Fog           May 05 2006, 07:00         8.5         8.5         100         28         6         0.8         100.18         Drizzle, Fog           May 05 2006, 08:00         9.1         9.1         100         28         6         0.8         100.18         Drizzle, Fog           May 05 2006, 09:00         9.6         9.6         9.6         100         27         6         1         100.24         Fog           May 05 2006, 10:00         14.5         11.9         84         18         11         100.24         Fog									•
May 05 2006, 02:00									•
May 05 2006, 03:00         7.2         7.2         100         27         7         3.2         100.08         Drizzle, Fog           May 05 2006, 04:00         7.5         7.5         100         28         6         3.2         100.12         Fog           May 05 2006, 05:00         8.6         7.6         100         29         15         1.2         100.09         Drizzle, Fog           May 05 2006, 06:00         8.2         8.2         100         28         9         0.8         100.12         Drizzle, Fog           May 05 2006, 07:00         8.5         8.5         100         28         6         0.8         100.12         Drizzle, Fog           May 05 2006, 09:00         9.6         9.6         100         27         6         1         100.24         Fog           May 05 2006, 10:00         10.9         10.9         100         25         9         4.8         100.24         Fog           May 05 2006, 10:00         13         11.6         91         16         13         16.1         100.24         Fog           May 05 2006, 12:00         14.5         11.9         84         18         13         24.1         100.11         Mainic Veloudy<									•
May 05 2006, 05:00         7.6         7.6         100         29         15         1.2         100.09         Drizzle, Fog           May 05 2006, 06:00         8.2         8.2         100         28         9         0.8         100.12         Drizzle, Fog           May 05 2006, 07:00         8.5         8.5         100         28         6         0.8         100.18         Drizzle, Fog           May 05 2006, 09:00         9.6         9.6         100         27         6         1         100.24         Fog           May 05 2006, 10:00         10.9         10.9         100         25         9         4.8         100.24         Fog           May 05 2006, 11:00         13         11.6         91         16         13         16.1         100.21         Mostly Cloudy           May 05 2006, 12:00         14.5         11.9         84         18         13         24.1         100.11         Mostly Cloudy           May 05 2006, 12:00         15.9         12.3         79         18         15         24.1         100.11         Mostly Cloudy           May 05 2006, 12:00         14.9         11.6         81         19         15         10.1         May 05 2006<	•								•
May 05 2006, 06:00	lay 05 2006, 04:00	7.5	7.5	100	28	6	3.2	100.12	Fog
May 05 2006, 07:00									
May 05 2006, 08:00         9.1         9.1         100         28         13         0.4         100.23         Drizzle, Fog           May 05 2006, 09:00         9.6         9.6         100         27         6         1         100.24         Fog           May 05 2006, 10:00         10.9         10.9         100         25         9         4.8         100.24         Fog           May 05 2006, 11:00         13         11.6         91         16         13         16.1         100.21         Mostly Cloudy           May 05 2006, 12:00         14.5         11.9         84         18         13         24.1         100.11         Mastly Cloudy           May 05 2006, 13:00         15.9         12.3         79         18         15         24.1         100.11         Mainly Clear           May 05 2006, 14:00         15         11.9         82         18         19         24.1         100.11         Clear           May 05 2006, 16:00         12.8         10.2         84         17         19         24.1         100.14         Mainly Clear           May 05 2006, 18:00         10.9         9.3         90         16         13         24.1         100.16									
May 05 2006, 09:00         9.6         9.6         100         27         6         1         100.24         Fog           May 05 2006, 10:00         10.9         10.9         10.9         10.0         25         9         4.8         100.24         Fog           May 05 2006, 12:00         14.5         11.9         84         18         13         24.1         100.13         Mostly Cloudy           May 05 2006, 12:00         15.9         12.3         79         18         15         24.1         100.11         Mainly Clear           May 05 2006, 13:00         15.9         12.3         79         18         15         24.1         100.11         Clear           May 05 2006, 15:00         14.9         11.6         81         19         15         24.1         100.12         Clear           May 05 2006, 16:00         12.8         10.2         84         17         19         24.1         100.14         Mainly Clear           May 05 2006, 18:00         10.9         9.3         90         16         13         24.1         100.14         Mainly Clear           May 05 2006, 20:00         8.5         8.5         100         18         20         2.4 <t< td=""><td>•</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	•								
May 05 2006, 10:00         10.9         10.9         10.0         25         9         4.8         100.24         Fog           May 05 2006, 11:00         13         11.6         91         16         13         16.1         100.21         Mostly Cloudy           May 05 2006, 13:00         14.5         11.9         84         18         13         24.1         100.11         Mainly Clear           May 05 2006, 13:00         15.9         12.3         79         18         15         24.1         100.11         Mainly Clear           May 05 2006, 14:00         15         11.9         82         18         19         24.1         100.12         Clear           May 05 2006, 16:00         14.9         11.6         81         19         15         24.1         100.12         Clear           May 05 2006, 16:00         11.5         9.7         89         18         13         24.1         100.14         Mainly Clear           May 05 2006, 19:00         10.9         9.3         9         16         13         24.1         100.18         Mostly Cloudy           May 05 2006, 29:00         8.5         8.5         100         18         20         2.4         100.25									
May 05 2006, 11:00         13         11.6         91         16         13         16.1         100.21         Mostly Cloudy           May 05 2006, 12:00         14.5         11.9         84         18         13         24.1         100.13         Mostly Cloudy           May 05 2006, 14:00         15.9         12.3         79         18         15         24.1         100.11         Clear           May 05 2006, 15:00         14.9         11.6         81         19         24.1         100.12         Clear           May 05 2006, 16:00         12.8         10.2         84         17         19         24.1         100.12         Clear           May 05 2006, 17:00         11.5         9.7         89         18         13         24.1         100.14         Mainly Clear           May 05 2006, 18:00         10.9         9.3         90         16         13         24.1         100.18         Mostly Cloudy           May 05 2006, 20:00         8.5         8.5         100         18         20         2.4         100.22         Cloudy           May 05 2006, 21:00         8.8         8.8         100         17         15         0.6         100.27         Fog	•								
May 05 2006, 12:00         14.5         11.9         84         18         13         24.1         100.13         Mostly Cloudy           May 05 2006, 13:00         15.9         12.3         79         18         15         24.1         100.11         Mainly Clear           May 05 2006, 15:00         14.9         11.6         81         19         24.1         100.12         Clear           May 05 2006, 16:00         12.8         10.2         84         17         19         24.1         100.14         Mainly Clear           May 05 2006, 17:00         11.5         9.7         89         18         13         24.1         100.16         Mostly Cloudy           May 05 2006, 18:00         10.9         9.3         90         16         13         24.1         100.16         Mostly Cloudy           May 05 2006, 19:00         9.9         9.3         96         19         15         16.1         100.22         Cloudy           May 05 2006, 21:00         8.5         8.5         100         18         20         2.4         100.25         Fog           May 05 2006, 22:00         9         9         100         18         13         0.8         100.27         Drizzle,									•
May 05 2006, 14:00         15         11.9         82         18         19         24.1         100.1         Clear           May 05 2006, 15:00         14.9         11.6         81         19         15         24.1         100.12         Clear           May 05 2006, 16:00         12.8         10.2         84         17         19         24.1         100.14         Mainly Clear           May 05 2006, 17:00         11.5         9.7         89         18         13         24.1         100.16         Mostly Cloudy           May 05 2006, 18:00         10.9         9.3         90         16         13         24.1         100.18         Mostly Cloudy           May 05 2006, 19:00         9.9         9.3         96         19         15         16.1         100.22         Cloudy           May 05 2006, 20:00         8.5         8.5         100         18         20         2.4         100.25         Fog           May 05 2006, 21:00         9.8         8.8         100         17         15         0.6         100.27         Fog           May 05 2006, 22:00         9         9         100         18         13         0.8         100.27         Drizzle, F	•								
May 05 2006, 15:00         14.9         11.6         81         19         15         24.1         100.12         Clear           May 05 2006, 16:00         12.8         10.2         84         17         19         24.1         100.14         Mainly Clear           May 05 2006, 17:00         11.5         9.7         89         18         13         24.1         100.16         Mostly Cloudy           May 05 2006, 18:00         10.9         9.3         90         16         13         24.1         100.18         Mostly Cloudy           May 05 2006, 19:00         9.9         9.3         96         19         15         16.1         100.22         Cloudy           May 05 2006, 20:00         8.5         8.5         100         18         20         2.4         100.25         Fog           May 05 2006, 21:00         8.8         8.8         100         17         15         0.6         100.27         Fog           May 05 2006, 22:00         9         9         100         18         13         0.8         100.27         Drizzle, Fog           May 06 2006, 00:00         9.9         9.9         100         16         9         0.4         100.25         Dri	lay 05 2006, 13:00	15.9	12.3	79	18	15	24.1	100.11	Mainly Clear
May 05 2006, 16:00         12.8         10.2         84         17         19         24.1         100.14         Mainly Clear           May 05 2006, 17:00         11.5         9.7         89         18         13         24.1         100.16         Mostly Cloudy           May 05 2006, 18:00         10.9         9.3         90         16         13         24.1         100.18         Mostly Cloudy           May 05 2006, 29:00         8.5         8.5         100         18         20         2.4         100.25         Fog           May 05 2006, 21:00         8.8         8.8         100         17         15         0.6         100.27         Fog           May 05 2006, 22:00         9         9         100         18         13         0.8         100.27         Drizzle, Fog           May 05 2006, 23:00         9.3         9.3         100         16         9         0.4         100.28         Drizzle, Fog           May 06 2006, 00:00         9.9         9.9         100         16         13         0.6         100.25         Drizzle, Fog           May 06 2006, 01:00         9.4         9.4         100         17         9         0.4         100.25	•								
May 05 2006, 17:00         11.5         9.7         89         18         13         24.1         100.16         Mostly Cloudy           May 05 2006, 18:00         10.9         9.3         90         16         13         24.1         100.18         Mostly Cloudy           May 05 2006, 19:00         9.9         9.3         96         19         15         16.1         100.22         Cloudy           May 05 2006, 20:00         8.5         8.5         100         18         20         2.4         100.25         Fog           May 05 2006, 21:00         8.8         8.8         100         17         15         0.6         100.27         Fog           May 05 2006, 22:00         9         9         100         18         13         0.8         100.27         Drizzle, Fog           May 05 2006, 23:00         9.3         9.3         100         16         9         0.4         100.28         Drizzle, Fog           May 06 2006, 01:00         9.9         9.9         100         16         13         0.6         100.25         Drizzle, Fog           May 06 2006, 01:00         8.9         8.9         100         17         9         0.4         100.25         D									
May 05 2006, 18:00         10.9         9.3         90         16         13         24.1         100.18         Mostly Cloudy           May 05 2006, 19:00         9.9         9.3         96         19         15         16.1         100.22         Cloudy           May 05 2006, 20:00         8.5         8.5         100         18         20         2.4         100.25         Fog           May 05 2006, 21:00         8.8         8.8         100         17         15         0.6         100.27         Fog           May 05 2006, 22:00         9         9         100         18         13         0.8         100.27         Drizzle, Fog           May 05 2006, 23:00         9.3         9.3         100         16         9         0.4         100.28         Drizzle, Fog           May 06 2006, 00:00         9.9         9.9         100         16         13         0.6         100.25         Drizzle, Fog           May 06 2006, 01:00         9.4         9.4         100         17         9         0.4         100.25         Drizzle, Fog           May 06 2006, 01:00         8.9         8.9         100         18         15         0.4         100.25         Fog									•
May 05 2006, 19:00         9.9         9.3         96         19         15         16.1         100.22         Cloudy           May 05 2006, 20:00         8.5         8.5         100         18         20         2.4         100.25         Fog           May 05 2006, 21:00         8.8         8.8         100         17         15         0.6         100.27         Fog           May 05 2006, 22:00         9         9         100         18         13         0.8         100.27         Drizzle, Fog           May 05 2006, 23:00         9.3         9.3         100         16         9         0.4         100.28         Drizzle, Fog           May 06 2006, 01:00         9.9         9.9         100         16         13         0.6         100.25         Drizzle, Fog           May 06 2006, 01:00         9.4         9.4         100         17         9         0.4         100.25         Drizzle, Fog           May 06 2006, 02:00         8.9         8.9         100         18         15         0.4         100.25         Drizzle, Fog           May 06 2006, 03:00         8.2         8.2         100         18         15         0.4         100.21         Fog </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
May 05 2006, 20:00         8.5         8.5         100         18         20         2.4         100.25         Fog           May 05 2006, 21:00         8.8         8.8         100         17         15         0.6         100.27         Fog           May 05 2006, 22:00         9         9         100         18         13         0.8         100.27         Drizzle, Fog           May 05 2006, 23:00         9.3         9.3         100         16         9         0.4         100.28         Drizzle, Fog           May 06 2006, 00:00         9.9         9.9         100         16         13         0.6         100.25         Drizzle, Fog           May 06 2006, 01:00         9.4         9.4         100         17         9         0.4         100.25         Drizzle, Fog           May 06 2006, 02:00         8.9         8.9         100         18         15         0.4         100.24         Fog           May 06 2006, 03:00         8.2         8.2         100         18         15         0.4         100.24         Fog           May 06 2006, 04:00         7.9         7.9         100         16         9         0.4         100.22         Fog									
May 05 2006, 21:00         8.8         8.8         100         17         15         0.6         100.27         Fog           May 05 2006, 22:00         9         9         100         18         13         0.8         100.27         Drizzle, Fog           May 05 2006, 23:00         9.3         9.3         100         16         9         0.4         100.28         Drizzle, Fog           May 06 2006, 00:00         9.9         9.9         100         16         13         0.6         100.25         Drizzle, Fog           May 06 2006, 01:00         9.4         9.4         100         17         9         0.4         100.25         Drizzle, Fog           May 06 2006, 02:00         8.9         8.9         100         18         15         0.4         100.24         Fog           May 06 2006, 03:00         8.2         8.2         100         18         15         0.4         100.24         Fog           May 06 2006, 04:00         7.9         7.9         100         16         9         0.4         100.22         Fog           May 06 2006, 05:00         7.7         7.7         100         16         11         0.4         100.25         Fog	*								
May 05 2006, 22:00         9         9         100         18         13         0.8         100.27         Drizzle, Fog           May 05 2006, 23:00         9.3         9.3         100         16         9         0.4         100.28         Drizzle, Fog           May 06 2006, 00:00         9.9         9.9         100         16         13         0.6         100.25         Drizzle, Fog           May 06 2006, 01:00         9.4         9.4         100         17         9         0.4         100.25         Drizzle, Fog           May 06 2006, 02:00         8.9         8.9         100         18         15         0.4         100.25         Drizzle, Fog           May 06 2006, 03:00         8.2         8.9         100         18         15         0.4         100.21         Fog           May 06 2006, 03:00         8.2         8.2         100         18         15         0.4         100.21         Fog           May 06 2006, 04:00         7.9         7.9         100         16         9         0.4         100.22         Fog           May 06 2006, 05:00         7.7         7.7         100         13         13         0.2         100.28         Fog									=
May 06 2006, 00:00         9.9         9.9         100         16         13         0.6         100.25         Drizzle, Fog           May 06 2006, 01:00         9.4         9.4         100         17         9         0.4         100.25         Drizzle, Fog           May 06 2006, 02:00         8.9         8.9         100         18         15         0.4         100.24         Fog           May 06 2006, 03:00         8.2         8.2         100         18         15         0.4         100.21         Fog           May 06 2006, 04:00         7.9         7.9         100         16         9         0.4         100.22         Fog           May 06 2006, 05:00         7.7         7.7         100         16         11         0.4         100.25         Fog           May 06 2006, 06:00         7.5         7.5         100         13         13         0.2         100.28         Fog           May 06 2006, 07:00         7.7         7.7         100         13         15         0.2         100.28         Fog           May 06 2006, 08:00         8         8         8         100         12         19         0.2         100.26         Fog <td>*</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>•</td>	*								•
May 06 2006, 01:00         9.4         9.4         100         17         9         0.4         100.25         Drizzle, Fog           May 06 2006, 02:00         8.9         8.9         100         18         15         0.4         100.24         Fog           May 06 2006, 03:00         8.2         8.2         100         18         15         0.4         100.21         Fog           May 06 2006, 04:00         7.9         7.9         100         16         9         0.4         100.22         Fog           May 06 2006, 05:00         7.7         7.7         100         16         11         0.4         100.22         Fog           May 06 2006, 06:00         7.5         7.5         100         13         13         0.2         100.28         Fog           May 06 2006, 07:00         7.7         7.7         100         13         15         0.2         100.28         Fog           May 06 2006, 08:00         8         8         100         12         19         0.2         100.26         Fog           May 06 2006, 09:00         9         9         100         13         19         0.8         100.28         Fog           May 06 2									
May 06 2006, 02:00         8.9         8.9         100         18         15         0.4         100.24         Fog           May 06 2006, 03:00         8.2         8.2         100         18         15         0.4         100.21         Fog           May 06 2006, 04:00         7.9         7.9         100         16         9         0.4         100.22         Fog           May 06 2006, 05:00         7.7         7.7         100         16         11         0.4         100.25         Fog           May 06 2006, 06:00         7.5         7.5         100         13         13         0.2         100.28         Fog           May 06 2006, 07:00         7.7         7.7         100         13         15         0.2         100.28         Fog           May 06 2006, 08:00         8         8         100         12         19         0.2         100.26         Fog           May 06 2006, 09:00         9         9         100         13         19         0.8         100.28         Fog           May 06 2006, 10:00         9.5         9.5         100         15         20         6.4         100.3         Fog           May 06 2006, 11:0									
May 06 2006, 03:00         8.2         8.2         100         18         15         0.4         100.21         Fog           May 06 2006, 04:00         7.9         7.9         100         16         9         0.4         100.22         Fog           May 06 2006, 05:00         7.7         7.7         100         16         11         0.4         100.25         Fog           May 06 2006, 06:00         7.5         7.5         100         13         13         0.2         100.28         Fog           May 06 2006, 07:00         7.7         7.7         100         13         15         0.2         100.28         Fog           May 06 2006, 08:00         8         8         100         12         19         0.2         100.26         Fog           May 06 2006, 09:00         9         9         100         13         19         0.8         100.28         Fog           May 06 2006, 10:00         9.5         9.5         100         15         20         6.4         100.3         Fog           May 06 2006, 11:00         10.7         10.3         97         15         20         6.4         100.3         Cloudy           May 06 2006, 1									, 0
May 06 2006, 04:00         7.9         7.9         100         16         9         0.4         100.22         Fog           May 06 2006, 05:00         7.7         7.7         100         16         11         0.4         100.25         Fog           May 06 2006, 06:00         7.5         7.5         100         13         13         0.2         100.28         Fog           May 06 2006, 07:00         7.7         7.7         100         13         15         0.2         100.28         Fog           May 06 2006, 08:00         8         8         100         12         19         0.2         100.26         Fog           May 06 2006, 09:00         9         9         100         13         19         0.8         100.28         Fog           May 06 2006, 10:00         9.5         9.5         100         15         20         6.4         100.3         Fog           May 06 2006, 11:00         10.7         10.3         97         15         20         19.3         100.33         Cloudy           May 06 2006, 12:00         10.4         10.4         100         15         19         19.3         100.3         Cloudy           May 06	•								•
May 06 2006, 05:00         7.7         7.7         100         16         11         0.4         100.25         Fog           May 06 2006, 06:00         7.5         7.5         100         13         13         0.2         100.28         Fog           May 06 2006, 07:00         7.7         7.7         100         13         15         0.2         100.28         Fog           May 06 2006, 08:00         8         8         100         12         19         0.2         100.26         Fog           May 06 2006, 09:00         9         9         100         13         19         0.8         100.28         Fog           May 06 2006, 10:00         9.5         9.5         100         15         20         6.4         100.3         Fog           May 06 2006, 11:00         10.7         10.3         97         15         20         19.3         100.33         Cloudy           May 06 2006, 12:00         10.4         10.4         100         15         19         19.3         100.3         Cloudy           May 06 2006, 13:00         12.5         11.8         95         15         19         16.1         100.28         Rain Showers									•
May 06 2006, 06:00         7.5         7.5         100         13         13         0.2         100.28         Fog           May 06 2006, 07:00         7.7         7.7         100         13         15         0.2         100.28         Fog           May 06 2006, 08:00         8         8         100         12         19         0.2         100.26         Fog           May 06 2006, 09:00         9         9         100         13         19         0.8         100.28         Fog           May 06 2006, 10:00         9.5         9.5         100         15         20         6.4         100.3         Fog           May 06 2006, 11:00         10.7         10.3         97         15         20         19.3         100.33         Cloudy           May 06 2006, 12:00         10.4         10.4         100         15         19         19.3         100.3         Cloudy           May 06 2006, 13:00         12.5         11.8         95         15         19         16.1         100.28         Rain Showers	•								•
May 06 2006, 07:00         7.7         7.7         100         13         15         0.2         100.28         Fog           May 06 2006, 08:00         8         8         100         12         19         0.2         100.26         Fog           May 06 2006, 09:00         9         9         100         13         19         0.8         100.28         Fog           May 06 2006, 10:00         9.5         9.5         100         15         20         6.4         100.3         Fog           May 06 2006, 11:00         10.7         10.3         97         15         20         19.3         100.33         Cloudy           May 06 2006, 12:00         10.4         10.4         100         15         19         19.3         100.3         Cloudy           May 06 2006, 13:00         12.5         11.8         95         15         19         16.1         100.28         Rain Showers									=
May 06 2006, 08:00         8         8         100         12         19         0.2         100.26         Fog           May 06 2006, 09:00         9         9         100         13         19         0.8         100.28         Fog           May 06 2006, 10:00         9.5         9.5         100         15         20         6.4         100.3         Fog           May 06 2006, 11:00         10.7         10.3         97         15         20         19.3         100.33         Cloudy           May 06 2006, 12:00         10.4         10.4         100         15         19         19.3         100.3         Cloudy           May 06 2006, 13:00         12.5         11.8         95         15         19         16.1         100.28         Rain Showers									•
May 06 2006, 10:00         9.5         9.5         100         15         20         6.4         100.3         Fog           May 06 2006, 11:00         10.7         10.3         97         15         20         19.3         100.33         Cloudy           May 06 2006, 12:00         10.4         10.4         100         15         19         19.3         100.3         Cloudy           May 06 2006, 13:00         12.5         11.8         95         15         19         16.1         100.28         Rain Showers			8				0.2		Fog
May 06 2006, 11:00     10.7     10.3     97     15     20     19.3     100.33     Cloudy       May 06 2006, 12:00     10.4     10.4     100     15     19     19.3     100.3     Cloudy       May 06 2006, 13:00     12.5     11.8     95     15     19     16.1     100.28     Rain Showers	•								•
May 06 2006, 12:00         10.4         10.4         100         15         19         19.3         100.3         Cloudy           May 06 2006, 13:00         12.5         11.8         95         15         19         16.1         100.28         Rain Showers									
May 06 2006, 13:00 12.5 11.8 95 15 19 16.1 100.28 Rain Showers									
	•								•
1710 10.0 12 10.0 00 10 17 17.0 100.01 Natif Stowers									
May 06 2006, 15:00 11.8 10.2 90 18 11 19.3 100.25 Rain Showers									
May 06 2006, 16:00 11.9 10.3 90 18 11 19.3 100.25 Cloudy	•								
May 06 2006, 17:00 11.5 10 90 18 19 24.1 100.28 Cloudy									
May 06 2006, 18:00 11.3 10.6 95 17 15 19.3 100.28 Cloudy	•								•
May 06 2006, 19:00 11.4 10.9 97 18 15 12.9 100.3 Cloudy	•								•
May 06 2006, 20:00 10.7 10.6 99 17 13 1.6 100.29 Fog									•
May 06 2006, 21:00 10.5 10.5 100 17 9 0.6 100.31 Fog									Fog
May 06 2006, 22:00 10.2 10.2 100 20 9 0.4 100.33 Fog									•
May 06 2006, 23:00 9.3 9.3 100 19 11 0.6 100.31 Fog	•								•
May 07 2006, 00:00 7.4 7.4 100 24 13 11.3 100.36 Mainly Clear	ay 07 2006, 00:00	7.4	7.4	100	24	13	11.3	100.36	Mainly Clear

Date/Time	Temp (°C)	Dew Point Temp (°C)	Rel Hum (%)	Wind Dir (10's deg)	Wind Spd (km/h)	Visibility (km)	Stn Press (kPa)	Weather
May 07 2006, 01:00	6.8	6.8	100	27	17	19.3	100.37	Mainly Clear
May 07 2006, 02:00	8.2	7.4	95	28	17	19.3	100.42	Mostly Cloudy
May 07 2006, 03:00 May 07 2006, 04:00	8 8.1	7.1 6.8	94 91	30 31	17 17	24.1 24.1	100.48 100.54	Mostly Cloudy Mostly Cloudy
May 07 2006, 05:00	7.6	6.1	90	31	19	24.1	100.66	Mostly Cloudy
May 07 2006, 06:00	7.6	6	90	32	19	24.1	100.76	Mostly Cloudy
May 07 2006, 07:00	7.8	5.9	88	32	17	24.1	100.89	Mainly Clear
May 07 2006, 08:00	9.4	5.7	78	33	26	24.1	100.94	Mainly Clear
May 07 2006, 09:00	10.3	5.3	71	31	20	24.1	101.03	Mainly Clear
May 07 2006, 10:00	10.2	5.4	72	31	22	24.1	101.08	Clear
May 07 2006, 11:00	10.5	5.1	69 67	33	26	24.1	101.13	Clear
May 07 2006, 12:00 May 07 2006, 13:00	10.2 11.1	4.4 4.6	67 64	31 30	24 26	24.1 24.1	101.18 101.18	Clear Clear
May 07 2006, 14:00	11.3	5.1	66	29	24	24.1	101.18	Clear
May 07 2006, 15:00	11	2.7	57	30	20	24.1	101.2	Clear
May 07 2006, 16:00	10.4	3.5	62	28	26	24.1	101.23	Mainly Clear
May 07 2006, 17:00	10.2	3.3	62	29	19	24.1	101.24	Mainly Clear
May 07 2006, 18:00	9.1	2.2	62	30	17	24.1	101.29	Mostly Cloudy
May 07 2006, 19:00	7.8	2.1	67	29	17	24.1	101.37	Cloudy
May 07 2006, 20:00	6.7	1.5	69	31	9	24.1	101.43	Cloudy
May 07 2006, 21:00	6.4 4.4	2.3 2.5	75 87	31 33	15 7	24.1 24.1	101.5 101.56	Cloudy Cloudy
May 07 2006, 22:00 May 07 2006, 23:00	5.6	2.7	82	31	7	24.1	101.50	Cloudy
May 08 2006, 00:00	4	2.2	88	35	9	24.1	101.61	Cloudy
May 08 2006, 01:00	4.3	1.2	80	33	13	19.3	101.65	Cloudy
May 08 2006, 02:00	3	1.4	89	35	9	19.3	101.66	Cloudy
May 08 2006, 03:00	5.5	1.5	75	3	11	19.3	101.69	Mostly Cloudy
May 08 2006, 04:00	6	0.7	69	2	11	19.3	101.71	Cloudy
May 08 2006, 05:00	5.7	0.1	67	3	15	24.1	101.78	Mostly Cloudy
May 08 2006, 06:00	6.6 8.8	-0.6 -0.7	60 51	4 5	9 13	24.1 24.1	101.84 101.89	Mostly Cloudy
May 08 2006, 07:00 May 08 2006, 08:00	10.6	0.4	49	7	20	24.1	101.89	Cloudy Cloudy
May 08 2006, 09:00	12.8	-0.8	39	5	7	24.1	101.91	Cloudy
May 08 2006, 10:00	13.6	-2	34	3	17	24.1	101.93	Cloudy
May 08 2006, 11:00	14.8	-3	29	8	15	24.1	101.9	Cloudy
May 08 2006, 12:00	16.2	-4.2	24	3	11	24.1	101.84	Cloudy
May 08 2006, 13:00	17.5	-2.1	26	7	17	24.1	101.78	Cloudy
May 08 2006, 14:00	16.9	1	34	27	19	24.1	101.71	Cloudy
May 08 2006, 15:00 May 08 2006, 16:00	16.2 15.9	0.1 -0.7	33 32	32 31	24 28	24.1 24.1	101.65 101.59	Cloudy Cloudy
May 08 2006, 17:00	16	1.3	37	32	15	24.1	101.56	Cloudy
May 08 2006, 17:00	12	2	50	17	15	24.1	101.58	Cloudy
May 08 2006, 19:00	9.6	2.5	61	17	11	24.1	101.67	Cloudy
May 08 2006, 20:00	8.9	3.6	69	18	9	24.1	101.72	Cloudy
May 08 2006, 21:00	8.6	4.6	76	9	4	24.1	101.75	Cloudy
May 08 2006, 22:00	9	2.9	66	8	9	24.1	101.77	Cloudy
May 08 2006, 23:00	8.3	1.8	64	8	13	24.1	101.73 101.66	Cloudy Months Clouds
May 09 2006, 00:00 May 09 2006, 01:00	7.7 7.9	0.8 0.5	62 59	7 7	15 19	24.1 24.1	101.66	Mostly Cloudy Cloudy
May 09 2006, 02:00	7.4	0.3	61	8	22	24.1	101.55	Cloudy
May 09 2006, 03:00	7.4	0	59	7	20	24.1	101.49	Cloudy
May 09 2006, 04:00	7.7	0	58	7	22	24.1	101.43	Cloudy
May 09 2006, 05:00	8	-0.3	56	7	26	24.1	101.4	Cloudy
May 09 2006, 06:00	8.8	-0.5	52	8	24	24.1	101.38	Cloudy
May 09 2006, 07:00	9.8	0	50	8	26	24.1	101.38	Cloudy
May 09 2006, 08:00 May 09 2006, 09:00	11.8 13.1	0	44 45	8 8	26 39	24.1 24.1	101.37 101.34	Cloudy Cloudy
May 09 2006, 10:00	13.4	1.5 2.2	45 47	8	41	24.1	101.34	Cloudy
May 09 2006, 11:00	13.4	3.2	50	8	41	24.1	101.32	Cloudy
May 09 2006, 12:00	11.3	7.1	75	8	37	16.1	101.3	Rain Showers
May 09 2006, 13:00	10.1	7.3	83	8	28	12.9	101.25	Rain Showers
May 09 2006, 14:00	9.1	7.7	91	7	30	16.1	101.2	Rain Showers
May 09 2006, 15:00	8.8	7.2	90	8	35	16.1	101.23	Rain Showers
May 09 2006, 16:00	8.1	7.7	97	6	26	19.3	101.12	Rain Showers
May 09 2006, 17:00	8.3	8.1	99 07	6	32	12.9	101.06	Rain
May 09 2006, 18:00 May 09 2006, 19:00	8.3 8	7.8 7.7	97 98	7 7	30 37	16.1 9.7	101.08 101.14	Rain Rain, Fog
May 09 2006, 19.00 May 09 2006, 20:00	8	8	100	6	28	9.7	101.14	Rain, Fog
May 09 2006, 21:00	8.4	8.4	100	7	30	19.3	101.13	Rain Showers
May 09 2006, 22:00	9	9	100	6	30	19.3	101.13	Rain Showers
May 09 2006, 23:00	9.4	9.4	100	6	28	19.3	101.09	Rain Showers
May 10 2006, 00:00	9.8	9.8	100	6	28	19.3	101.05	Rain Showers
May 10 2006, 01:00	10	10	100	7	24	14.5	101.05	Rain Showers
May 10 2006, 02:00	9.7	9.7	100	8	26	4.8	100.97	Fog
May 10 2006, 03:00	9.8	9.8	100	8	24	9.7	100.94	Fog
May 10 2006, 04:00	9.7	9.7	100	8	26	3.2	100.94	Fog
May 10 2006, 05:00	9.7	9.7	100	8	24	3.2	100.96	Rain Showers, Fog
May 10 2006, 06:00	9.8	9.8	100	8	24	2.4	100.98	Rain Showers, Fog

Date/Time	Temp (°C)	Dew Point Temp (°C)	Rel Hum (%)	Wind Dir (10's deg)	Wind Spd (km/h)	Visibility (km)	Stn Press (kPa)	Weather
May 10 2006, 07:00	10.6	10.6	100	9	24	14.5	101.02	Cloudy
May 10 2006, 08:00	11	11	100	8	22	16.1	101.04	Rain Showers
May 10 2006, 09:00	11.5	11.5	100	9	19	9.7	101.06	Rain Showers, Fog
May 10 2006, 10:00 May 10 2006, 11:00	11.8 11.9	11.8 11.9	100 100	8 8	28 28	6.4 9.7	101.04 101.06	Rain Showers, Fog Rain Showers, Fog
May 10 2006, 11:00	12.8	12.8	100	7	20	12.9	101.06	Rain Showers
May 10 2006, 13:00	13.8	13.8	100	9	28	16.1	101.05	Cloudy
May 10 2006, 14:00	13.7	13.7	100	9	26	19.3	101.03	Cloudy
May 10 2006, 15:00	13.2	13.2	100	9	28	12.9	101	Rain Showers
May 10 2006, 16:00	12.8	12.8	100	9	22	12.9	101.02	Rain Showers
May 10 2006, 17:00	12.6	12.6	100	9	22	16.1	101.06	Rain Showers
May 10 2006, 18:00 May 10 2006, 19:00	12.6 12.2	12.6 12.2	100 100	8 8	22 24	12.9 9.7	101.04 101.06	Rain Showers Rain Showers, Fog
May 10 2006, 19:00 May 10 2006, 20:00	11.3	11.3	100	8	24	6.4	101.08	Rain Showers, Fog
May 10 2006, 21:00	11	11	100	7	28	19.3	101.08	Rain Showers
May 10 2006, 22:00	10.8	10.8	100	9	22	14.5	101.09	Rain Showers
May 10 2006, 23:00	10.7	10.7	100	7	26	14.5	101.07	Rain Showers
May 11 2006, 00:00	10.8	10.7	99	8	28	14.5	101.04	Rain Showers
May 11 2006, 01:00	10.5	10.5	100	7	26	1.6	100.99	Fog
May 11 2006, 02:00	10.5	10.5	100	9	28	3.2	100.99	Rain Showers, Fog
May 11 2006, 03:00	10.3	10.3	100	11 10	24	3.2	101.01	Rain Showers, Fog
May 11 2006, 04:00	9.9	9.9	100	10 10	22	2.4	101.12	Drizzle, Fog
May 11 2006, 05:00 May 11 2006, 06:00	10 10.2	10 10.2	100 100	10 9	22 28	1.6 3.2	101.15 101.23	Drizzle, Fog Drizzle, Fog
May 11 2006, 06:00 May 11 2006, 07:00	9.9	9.9	100	9	26 22	2.4	101.23	Drizzle, Fog Drizzle, Fog
May 11 2006, 07:00 May 11 2006, 08:00	10.2	10.2	100	9	24	6.4	101.23	Drizzle, Fog
May 11 2006, 09:00	10.4	10.4	100	9	24	6.4	101.38	Drizzle, Fog
May 11 2006, 10:00	10.6	10.4	99	9	26	9.7	101.4	Drizzle, Fog
May 11 2006, 11:00	12.3	12.3	100	8	28	16.1	101.39	Cloudy
May 11 2006, 12:00	12	11.8	99	9	26	9.7	101.37	Drizzle, Fog
May 11 2006, 13:00	12	11.9	99	9	24	9.7	101.34	Drizzle, Fog
May 11 2006, 14:00	11.9	11.5	97	9	24	6.4	101.36	Drizzle, Fog
May 11 2006, 15:00	11.2	10.9	98	9 9	28	4.8	101.35	Drizzle, Fog
May 11 2006, 16:00 May 11 2006, 17:00	10.6 9.8	10.4 9.8	99 100	9	26 24	6.4 4.8	101.37 101.37	Drizzle, Fog Rain Showers, Fog
May 11 2006, 17:00 May 11 2006, 18:00	9	9.0	100	9	28	4.8	101.36	Rain Showers, Fog
May 11 2006, 19:00	8.6	8.3	98	9	26	12.9	101.37	Cloudy
May 11 2006, 20:00	8.4	8.4	100	9	33	14.5	101.4	Cloudy
May 11 2006, 21:00	8.4	8.3	99	8	30	19.3	101.45	Cloudy
May 11 2006, 22:00	8.3	8.3	100	9	24	14.5	101.46	Cloudy
May 11 2006, 23:00	8.3	8.3	100	9	26	19.3	101.46	Rain Showers
May 12 2006, 00:00	8.3	8.3	100	10	22	19.3	101.42	Cloudy
May 12 2006, 01:00	8.2	8.2	100	8	30	19.3	101.42	Rain Showers
May 12 2006, 02:00 May 12 2006, 03:00	8.3 8.1	8.3 8.1	100 100	9 9	22	19.3	101.42 101.43	Rain Showers Rain Showers, Fog
May 12 2006, 03:00 May 12 2006, 04:00	8.2	8.2	100	10	30 33	3.2 3.2	101.43	Rain Showers, Fog
May 12 2006, 05:00	8.1	8.1	100	9	26	4.8	101.43	Rain Showers, Fog
May 12 2006, 06:00	8	8	100	9	26	4.8	101.47	Rain Showers, Fog
May 12 2006, 07:00	8	8	100	9	26	1.6	101.5	Rain Showers, Fog
May 12 2006, 08:00	8.1	8.1	100	9	26	1.6	101.52	Fog
May 12 2006, 09:00	8.1	8.1	100	9	26	3.2	101.55	Fog
May 12 2006, 10:00	8.8	8.8	100	9	28	9.7	101.58	Fog
May 12 2006, 11:00	9.6	9.5	99 05	9	30	16.1	101.62	Cloudy
May 12 2006, 12:00 May 12 2006, 13:00	10.8 12.2	10 10.4	95 89	10	24 32	19.3 19.3	101.63 101.61	Cloudy Cloudy
May 12 2006, 13:00 May 12 2006, 14:00	12.9	10.4	84	10 11	30	24.1	101.65	Cloudy
May 12 2006, 15:00	13.1	10	81	10	22	24.1	101.62	Cloudy
May 12 2006, 16:00	14.6	10.5	76	10	30	24.1	101.6	Cloudy
May 12 2006, 17:00	12.3	9.1	81	9	24	24.1	101.64	Mostly Cloudy
May 12 2006, 18:00	12	9.1	82	9	32	24.1	101.64	Cloudy
May 12 2006, 19:00	10.9	8	82	9	26	24.1	101.66	Mostly Cloudy
May 12 2006, 20:00	9.8	5.8	76	10	24	24.1	101.69	Cloudy
May 12 2006, 21:00	8.9	4.9	76	9	28	24.1	101.75	Cloudy
May 12 2006, 22:00	8.4	3.9	73 73	10	26	24.1	101.75	Cloudy Mostly Cloudy
May 12 2006, 23:00 May 13 2006, 00:00	8.4 8.5	3.8 3.8	73 72	10 11	28 24	24.1 24.1	101.74 101.75	Mostly Cloudy Mostly Cloudy
May 13 2006, 00:00 May 13 2006, 01:00	7.7	3.4	72 74	10	19	24.1	101.73	Cloudy
May 13 2006, 02:00	6.9	3.2	77	10	22	24.1	101.73	Cloudy
May 13 2006, 03:00	6.8	2.2	72	9	22	24.1	101.71	Cloudy
May 13 2006, 04:00	6.9	2.9	76	8	26	24.1	101.69	Cloudy
May 13 2006, 05:00	6.6	3.2	79	9	15	24.1	101.72	Cloudy
May 13 2006, 06:00	5.8	3.9	88	9	28	24.1	101.75	Cloudy
May 13 2006, 07:00	6.6	4.8	88	9	24	24.1	101.75	Cloudy
May 13 2006, 08:00	7.7	5	83	10	22	24.1	101.82	Cloudy
May 13 2006, 09:00	8.8	5.6	80	8	26	24.1	101.86	Cloudy
May 13 2006, 10:00	10	5.7	75	9	33	24.1	101.88	Cloudy
May 13 2006, 11:00	10.8	6.3 6.9	74 70	10 9	32 33	24.1 24.1	101.88 101.88	Cloudy
May 13 2006, 12:00	12.2							Cloudy

Date/Time	Temp (°C)	Dew Point Temp (°C)	Rel Hum	Wind Dir (10's deg)	Wind Spd (km/h)	Visibility (km)	Stn Press (kPa)	Weather
May 13 2006, 13:00	12.8	7.1	(%) 68	(10's deg)	32	24.1	101.89	Cloudy
May 13 2006, 13:00 May 13 2006, 14:00	13.4	7.7	68	11	30	24.1	101.89	Cloudy
May 13 2006, 15:00	13.3	7.5	68	11	22	24.1	101.88	Cloudy
May 13 2006, 16:00	12.8	6.9	67	9	30	24.1	101.9	Cloudy
May 13 2006, 17:00	12.3	7.4	72	11	24	24.1	101.93	Cloudy
May 13 2006, 18:00	11.8	6.8	71	10	33	24.1	101.95	Cloudy
May 13 2006, 19:00	10.1	6.5	78	8	24	24.1	101.95	Mostly Cloudy
May 13 2006, 20:00	7.8	5.7	87	9	20	24.1	102	Cloudy
May 13 2006, 21:00 May 13 2006, 22:00	6.6 6.3	5.6 5.4	93 94	9 10	22 22	24.1 24.1	102.01 102.03	Cloudy Cloudy
May 13 2006, 23:00	5.9	4.9	93	9	24	24.1	102.04	Mostly Cloudy
May 14 2006, 00:00	5.9	5.1	95	9	20	24.1	102.02	Cloudy
May 14 2006, 01:00	5.4	4.6	95	9	22	19.3	102.01	Cloudy
May 14 2006, 02:00	5.2	4.8	97	9	20	19.3	102	Cloudy
May 14 2006, 03:00	5.2	4.8	97	9	22	19.3	101.99	Cloudy
May 14 2006, 04:00	5.2	4.7	97	8	17	19.3	101.99	Cloudy
May 14 2006, 05:00	5.1	4.6	97	9	22	19.3	101.98	Cloudy
May 14 2006, 06:00	5.1	4.6	97 05	9 9	22	19.3	102.02	Cloudy
May 14 2006, 07:00 May 14 2006, 08:00	5.4 6.2	4.7 5.1	95 93	9 10	24 22	19.3 24.1	102.06 102.06	Cloudy Mostly Cloudy
May 14 2006, 09:00	8.1	5.5	84	11	20	24.1	102.06	Mostly Cloudy
May 14 2006, 09:00	10.6	6.3	75	9	22	24.1	102.00	Mainly Clear
May 14 2006, 11:00	12	7.9	76	9	26	24.1	102.08	Mostly Cloudy
May 14 2006, 12:00	14.2	8.1	67	9	26	24.1	102.05	Mainly Clear
May 14 2006, 13:00	16.3	7.7	57	11	26	24.1	101.99	Mainly Clear
May 14 2006, 14:00	17.5	7.8	53	12	22	24.1	101.98	Mainly Clear
May 14 2006, 15:00	17.1	7.5	53	12	19	24.1	101.96	Mainly Clear
May 14 2006, 16:00	16.3	6.7	53	13	22	24.1	101.94	Mainly Clear
May 14 2006, 17:00	17.2	6.8	50	10	20	24.1	101.92	Mainly Clear
May 14 2006, 18:00	16	5.8 4.8	51 52	11 10	19	24.1	101.94 101.96	Mainly Clear Mainly Clear
May 14 2006, 19:00 May 14 2006, 20:00	14.3 11.7	5.1	53 64	9	20 22	24.1 24.1	101.96	Mainly Clear
May 14 2006, 20:00	9.3	5.5	77	13	11	24.1	101.30	Mainly Clear
May 14 2006, 22:00	7.6	5.1	84	10	11	24.1	102	Mainly Clear
May 14 2006, 23:00	6.8	5.1	89	12	11	24.1	101.98	Mainly Clear
May 15 2006, 00:00	5.9	4.9	93	9	13	24.1	101.98	Mainly Clear
May 15 2006, 01:00	5.4	4.5	94	9	11	24.1	101.97	Mainly Clear
May 15 2006, 02:00	4.4	4.1	98	9	13	24.1	101.93	Mainly Clear
May 15 2006, 03:00	4.2	3.8	97	8	13	24.1	101.87	Mainly Clear
May 15 2006, 04:00	4.4	3.8	96	8	15	24.1	101.85	Mainly Clear
May 15 2006, 05:00	4 5.5	3.6	97	9 9	9	24.1	101.86	Mainly Clear
May 15 2006, 06:00 May 15 2006, 07:00	5.5 8.1	4.4 5	93 81	9 10	13 19	24.1 24.1	101.88 101.87	Mainly Clear Mainly Clear
May 15 2006, 08:00	11.9	6.2	68	9	17	24.1	101.85	Mainly Clear
May 15 2006, 09:00	14.8	6.3	57	11	13	24.1	101.87	Mainly Clear
May 15 2006, 10:00	17.1	7	51	14	19	24.1	101.87	Mostly Cloudy
May 15 2006, 11:00	18.4	7.3	48	13	17	24.1	101.85	Cloudy
May 15 2006, 12:00	19.4	6	42	13	20	24.1	101.8	Mostly Cloudy
May 15 2006, 13:00	19.2	4.9	39	14	24	24.1	101.81	Cloudy
May 15 2006, 14:00	19.4	5.4	40	18	22	24.1	101.74	Cloudy
May 15 2006, 15:00 May 15 2006, 16:00	18.8	5.2	41 42	14 15	22	24.1	101.66	Cloudy
May 15 2006, 17:00	17.9 17.2	4.9 5.2	45	16	19 17	24.1 24.1	101.61 101.59	Cloudy Cloudy
May 15 2006, 17:00 May 15 2006, 18:00	16.3	4.5	45	15	17	24.1	101.53	Mostly Cloudy
May 15 2006, 19:00	14.6	4.1	49	14	20	24.1	101.53	Mostly Cloudy
May 15 2006, 20:00	11.3	4.4	62	14	7	24.1	101.51	Mainly Clear
May 15 2006, 21:00	9.9	4.3	68	13	11	24.1	101.49	Mainly Clear
May 15 2006, 22:00	9	4.6	74	12	15	24.1	101.43	Mostly Cloudy
May 15 2006, 23:00	8.7	6.3	85	11	15	19.3	101.38	Mostly Cloudy
May 16 2006, 00:00	8.4	7.9	97	12	15	12.9	101.24	Cloudy
May 16 2006, 01:00	8.7	8.6	99	12	13	8	101.2	Fog
May 16 2006, 02:00 May 16 2006, 03:00	9.4 9.9	9.3 9.9	99 100	13 12	11 15	8 4.8	101.16 101.07	Rain Showers, Fog Rain Showers, Fog
May 16 2006, 03:00 May 16 2006, 04:00	9.6	9.6	100	11	19	6.4	100.97	Fog
May 16 2006, 04:00	10.2	10.2	100	12	17	6.4	100.94	Rain Showers, Fog
May 16 2006, 06:00	10.5	10.5	100	11	11	4.8	100.88	Fog
May 16 2006, 07:00	11.3	11.3	100	10	13	6.4	100.8	Fog
May 16 2006, 08:00	11.8	11.8	100	10	19	6.4	100.69	Rain Showers, Fog
May 16 2006, 09:00	12.6	12.6	100	10	20	6.4	100.6	Fog
May 16 2006, 10:00	12.4	12.4	100	12	24	4.8	100.6	Rain Showers, Fog
May 16 2006, 11:00	12.7	12.7	100	15	20	3.2	100.54	Heavy Rain Showers, Fog
May 16 2006, 12:00	12.4	12.4	100	15	24	4.8	100.47	Rain Showers, Fog
May 16 2006, 13:00	12.6	12.6	100	16	19 12	6.4	100.34	Rain Showers, Fog
May 16 2006, 14:00	12.1	12 12.7	99 99	13 13	13 11	8 6.4	100.27 100.14	Rain Showers, Fog
May 16 2006, 15:00 May 16 2006, 16:00	12.8 13.1	12.7 13.1	99 100	13	11 13	6.4 4.8	100.14	Rain Showers, Fog Rain Showers, Fog
May 16 2006, 16:00 May 16 2006, 17:00	13.7	13.1	100	18	19	4.6 6.4	99.93	Rain Showers, Fog
May 16 2006, 17:00 May 16 2006, 18:00	13.5	13.4	99	16	22	6.4	99.85	Rain Showers, Fog
, .0 2000, .0.00	. 5.0			.0		J1	33.00	3

Date/Time	Temp (°C)	Dew Point Temp (°C)	Rel Hum (%)	Wind Dir (10's deg)	Wind Spd (km/h)	Visibility (km)	Stn Press (kPa)	Weather
May 16 2006, 19:00	13.1	13.1	100	15	24	6.4	99.71	Rain Showers, Fog
May 16 2006, 20:00	12.8	12.8	100	16	19	6.4	99.6	Fog
May 16 2006, 21:00	11.9	11.9	100	18	20	4.8	99.53	Fog
May 16 2006, 22:00	10.6	10.6	100	18	30	1.2	99.52	Fog
May 16 2006, 23:00	8.7	8.7 8.7	100	19 20	22	9.7 6.4	99.49	Fog
May 17 2006, 00:00 May 17 2006, 01:00	8.8 8.2	8.7 8.2	99 100	20 19	28 22	6.4 2.8	99.5 99.52	Fog Fog
May 17 2006, 01:00 May 17 2006, 02:00	8.2	8.2	100	21	19	2.4	99.54	Fog
May 17 2006, 03:00	7.8	7.8	100	22	22	3.2	99.54	Fog
May 17 2006, 04:00	7.9	7.9	100	22	20	4.8	99.56	Fog
May 17 2006, 05:00	7.7	7.7	100	21	24	9.7	99.57	Fog
May 17 2006, 06:00	8.3	7.9	97	21	19	11.3	99.58	Clear
May 17 2006, 07:00	9.1	8.2	94	20	20	11.3	99.63	Clear
May 17 2006, 08:00	10.2	8.8 9	91 87	20	22 24	12.9	99.65	Clear
May 17 2006, 09:00 May 17 2006, 10:00	11 11.4	9.3	87	23 23	28	12.9 12.9	99.71 99.71	Clear Clear
May 17 2006, 10:00 May 17 2006, 11:00	12.3	9.3	82	23	30	12.9	99.7	Clear
May 17 2006, 12:00	12.3	9.2	81	23	30	12.9	99.71	Clear
May 17 2006, 13:00	12.6	9.4	81	22	30	12.9	99.75	Clear
May 17 2006, 14:00	12.7	9.4	80	21	30	12.9	99.74	Clear
May 17 2006, 15:00	13.2	9.3	77	22	26	16.1	99.75	Clear
May 17 2006, 16:00	13.3	9	75	21	24	16.1	99.73	Clear
May 17 2006, 17:00	13.4	8.8	74 75	20	26	16.1	99.71	Clear
May 17 2006, 18:00	13	8.7	75 %	21	26	16.1	99.69	Clear
May 17 2006, 19:00 May 17 2006, 20:00	10.6 9.8	8.3 8.9	86 94	19 20	24 26	16.1 9.7	99.69 99.68	Clear Fog
May 17 2006, 20:00 May 17 2006, 21:00	10.3	8.9	94 91	19	26	9.7 14.5	99.69	Clear
May 17 2006, 21:00 May 17 2006, 22:00	10.5	9	93	19	28	14.5	99.7	Clear
May 17 2006, 23:00	9.5	9.1	97	19	26	14.5	99.69	Clear
May 18 2006, 00:00	9.9	9.3	96	19	22	14.5	99.66	Clear
May 18 2006, 01:00	10.1	9.5	96	19	19	14.5	99.63	Clear
May 18 2006, 02:00	9.1	9	99	17	19	8	99.59	Fog
May 18 2006, 03:00	9.5	9.5	100	18	15	3.2	99.57	Fog
May 18 2006, 04:00 May 18 2006, 05:00	9.5 9.4	9.5 9.4	100 100	19 16	17 11	3.2 4.8	99.54 99.6	Fog Fog
May 18 2006, 06:00	9.8	9.4	99	14	13	4.8	99.62	Fog
May 18 2006, 07:00	10.9	10.2	95	15	9	6.4	99.64	Fog
May 18 2006, 08:00	12.2	10.8	91	18	9	12.9	99.66	Mostly Cloudy
May 18 2006, 09:00	13	11.5	91	19	11	12.9	99.69	Cloudy
May 18 2006, 10:00	13.2	12.3	94	15	15	9.7	99.69	Fog
May 18 2006, 11:00	14.2	12.5	90	19	24	12.9	99.72	Mostly Cloudy
May 18 2006, 12:00	13.5	11.8	89	18	22	12.9	99.74	Cloudy
May 18 2006, 13:00	13.8	11.7	87 87	19 18	24 22	12.9	99.77	Mostly Cloudy
May 18 2006, 14:00 May 18 2006, 15:00	13.9 14.2	11.8 11.2	82	18	19	16.1 16.1	99.75 99.79	Mostly Cloudy Cloudy
May 18 2006, 16:00	13.8	11	83	18	19	16.1	99.79	Cloudy
May 18 2006, 17:00	13.5	10.7	83	18	13	16.1	99.85	Cloudy
May 18 2006, 18:00	12.7	10.3	85	17	11	16.1	99.88	Cloudy
May 18 2006, 19:00	11.5	10.1	91	17	9	16.1	99.95	Cloudy
May 18 2006, 20:00	11.1	10.5	96	16	11	8	100.03	Fog
May 18 2006, 21:00	11	11	100	12	11	1.6	100.07	Fog
May 18 2006, 22:00	11.4	11.3	99	15 16	9	2.4	100.14	Fog
May 18 2006, 23:00 May 19 2006, 00:00	11.6 10.8	11.1 10.8	97 100	16 18	13 11	4.8 0.8	100.17 100.22	Fog Fog
May 19 2006, 01:00	10.8	10.8	100	16	13	0.6	100.22	Fog
May 19 2006, 01:00 May 19 2006, 02:00	11	11	100	13	15	0.2	100.22	Fog
May 19 2006, 03:00	10.2	10.2	100	13	11	0.2	100.22	Fog
May 19 2006, 04:00	10.4	10.4	100	14	17	0.2	100.24	Fog
May 19 2006, 05:00	11	11	100	12	15	0.2	100.26	Fog
May 19 2006, 06:00	11.3	11.3	100	12	11	0.8	100.3	Fog
May 19 2006, 07:00	12.1	12.1	100	14	19	4	100.33	Fog
May 19 2006, 08:00 May 19 2006, 09:00	13.5 13.9	13.3 13.4	99 97	13 16	19 10	6.4	100.34 100.34	Fog
May 19 2006, 09:00 May 19 2006, 10:00	16	13.4	97 89	16 17	19 24	8 9.7	100.34	Fog Fog
May 19 2006, 10:00 May 19 2006, 11:00	15.9	14.2	88	17	28	9.7 11.3	100.28	Cloudy
May 19 2006, 11:00 May 19 2006, 12:00	13.4	12.4	94	17	24	9.7	100.29	Rain Showers, Fog
May 19 2006, 13:00	14.5	14.4	99	14	24	6.4	100.22	Moderate Rain Showers, Fog
May 19 2006, 14:00	15.3	13.8	91	15	28	12.9	100.15	Cloudy
May 19 2006, 15:00	14.9	13.3	90	15	30	12.9	100.12	Rain Showers
May 19 2006, 16:00	14.2	13.5	96	15	33	11.3	99.97	Thunderstorms, Rain Showers
May 19 2006, 17:00	13.1	12.9	99	15	33	12.9	99.93	Cloudy
May 19 2006, 18:00	12.2	12.2	100	15	30	4	99.92	Heavy Rain Showers, Fog
May 19 2006, 19:00	12.6	12.6	100	16	26	4.8	99.88	Rain Showers, Fog
May 19 2006, 20:00	12	12	100	16	26	4.8	99.86	Rain Showers, Fog
May 19 2006, 21:00	12 11.8	12 11.8	100	16 17	24	4.8	99.92	Fog
May 19 2006, 22:00 May 19 2006, 23:00	11.8 12	11.8 12	100 100	17 18	22 24	4 4	99.91 99.86	Fog Fog
May 20 2006, 23:00 May 20 2006, 00:00	10.9	10.9	100	18	24 24	0.8	99.86	Fog
may 20 2000, 00.00	10.8	10.3	100	10	44	0.0	33.04	· ~9

Date/Time	Temp (°C)	Dew Point Temp (°C)	Rel Hum (%)	Wind Dir (10's deg)	Wind Spd (km/h)	Visibility (km)	Stn Press (kPa)	Weather
May 20 2006, 01:00	10	10	100	19	26	1.6	99.86	Fog
May 20 2006, 02:00	8.4	8.4	100	18	22	9.7	99.84	Fog
May 20 2006, 03:00	8.4	8.4	100	19	19	12.9	99.81	Mainly Clear
May 20 2006, 04:00	8.7	8.7	100	19	24	9.7	99.8	Fog
May 20 2006, 05:00	8.1	7.7	97	20	24	16.1	99.85	Clear
May 20 2006, 06:00 May 20 2006, 07:00	8.7 9.8	8.1 8.8	96 93	20 18	20 26	16.1 16.1	99.87 99.91	Clear Clear
May 20 2006, 07:00 May 20 2006, 08:00	10.8	9.3	90	19	24	16.1	99.94	Mainly Clear
May 20 2006, 09:00	11.1	9.5	90	19	24	16.1	99.95	Mainly Clear
May 20 2006, 10:00	12.8	9.8	82	20	24	16.1	99.98	Mainly Clear
May 20 2006, 11:00	13.3	9.7	79	19	26	19.3	100	Mainly Clear
May 20 2006, 12:00	14.7	9.6	71	20	26	24.1	100	Mainly Clear
May 20 2006, 13:00	13.7	8.9	73	19 10	26	24.1	99.99	Mainly Clear
May 20 2006, 14:00 May 20 2006, 15:00	12.8 12.7	9 8.7	78 77	19 19	28 26	24.1 24.1	99.99 99.95	Mainly Clear Mostly Cloudy
May 20 2006, 16:00	13.2	8.4	73	18	24	24.1	99.89	Mostly Cloudy
May 20 2006, 17:00	12.5	8.2	75	19	24	24.1	99.89	Mostly Cloudy
May 20 2006, 18:00	11.7	7.5	75	19	22	24.1	99.84	Cloudy
May 20 2006, 19:00	10.5	7.6	82	18	22	24.1	99.8	Mostly Cloudy
May 20 2006, 20:00	9.7	7.5	86	18	19	24.1	99.82	Mostly Cloudy
May 20 2006, 21:00	10.2	8.1	87	18	22	19.3	99.81	Cloudy
May 20 2006, 22:00 May 20 2006, 23:00	9.9 10.1	8.5 8.9	91 92	18 20	15 20	16.1 16.1	99.79 99.75	Cloudy Cloudy
May 21 2006, 23:00 May 21 2006, 00:00	10.1	8.9 9.2	92 95	20 18	20 20	14.5	99.75 99.73	Cloudy
May 21 2006, 01:00	9.6	9.1	97	19	19	19.3	99.69	Cloudy
May 21 2006, 02:00	9.3	8.9	97	19	19	19.3	99.64	Mainly Clear
May 21 2006, 03:00	9.1	8.8	98	19	17	12.9	99.6	Mostly Cloudy
May 21 2006, 04:00	8.9	8.8	99	18	7	9.7	99.55	Fog
May 21 2006, 05:00	8.2	8.2	100	21	11	8	99.56	Fog
May 21 2006, 06:00	7.8	7.7	99	18	6	9.7	99.58	Fog
May 21 2006, 07:00 May 21 2006, 08:00	8.4 8.7	7.4 7.8	93 94	22 26	9 15	16.1 16.1	99.64 99.66	Cloudy Mostly Cloudy
May 21 2006, 09:00	9.9	8.5	91	28	15	19.3	99.7	Mostly Cloudy  Mostly Cloudy
May 21 2006, 10:00	10.6	9.1	90	27	15	24.1	99.72	Mostly Cloudy
May 21 2006, 11:00	11	8.9	87	26	20	24.1	99.72	Mostly Cloudy
May 21 2006, 12:00	11.8	9.2	84	28	19	24.1	99.7	Mainly Clear
May 21 2006, 13:00	12	8.8	81	26	22	24.1	99.73	Mainly Clear
May 21 2006, 14:00	11.6	9	84	25	15	24.1	99.74	Mainly Clear
May 21 2006, 15:00 May 21 2006, 16:00	11.5 11	8.4 8	81 82	24 22	20 22	24.1 24.1	99.69 99.7	Mainly Clear Mainly Clear
May 21 2006, 17:00	11.3	7.8	79	21	20	24.1	99.68	Mostly Cloudy
May 21 2006, 18:00	10.3	7.6	83	20	15	19.3	99.64	Cloudy
May 21 2006, 19:00	9.1	7.7	91	19	19	19.3	99.68	Mostly Cloudy
May 21 2006, 20:00	8.4	7.5	94	18	15	19.3	99.6	Cloudy
May 21 2006, 21:00	8.6	7.3	92	20	17	24.1	99.64	Cloudy
May 21 2006, 22:00 May 21 2006, 23:00	9.2	7.7 7.2	90 89	31	17 15	24.1	99.43	Cloudy
May 22 2006, 00:00	8.9 8.3	7.2 7.5	95	18 17	15 15	24.1 19.3	99.51 99.36	Cloudy Rain Showers
May 22 2006, 01:00	8.2	7.4	95	18	15	19.3	99.32	Cloudy
May 22 2006, 02:00	7.7	6.6	93	16	7	24.1	99.16	Cloudy
May 22 2006, 03:00	8	6.5	90	21	19	24.1	99.12	Cloudy
May 22 2006, 04:00	7.3	6.5	95	23	15	24.1	99.07	Cloudy
May 22 2006, 05:00	7.2	7.1	99	20	19	19.3	99.07	Rain Showers
May 22 2006, 06:00 May 22 2006, 07:00	7.2 7.9	6.8 6.2	97 89	23 23	17 19	19.3 19.3	99.08 99.04	Mostly Cloudy Mostly Cloudy
May 22 2006, 07:00 May 22 2006, 08:00	7.9 7.2	6.1	93	23 22	22	19.3	99.04	Cloudy
May 22 2006, 09:00	6.8	6.8	100	20	11	4.8	98.98	Drizzle, Fog
May 22 2006, 10:00	7.3	7.3	100	27	7	4.8	98.98	Drizzle, Fog
May 22 2006, 11:00	9.1	7.9	92	31	17	19.3	99.07	Cloudy
May 22 2006, 12:00	10.2	7.9	86	30	15	24.1	99.14	Mostly Cloudy
May 22 2006, 13:00	10	7.6	85	29	20	24.1	99.23	Mostly Cloudy
May 22 2006, 14:00	8 8 0	7.4	96 98	27 27	19 10	19.3	99.31	Mostly Cloudy
May 22 2006, 15:00 May 22 2006, 16:00	8.9 9.7	8.6 9.4	98 98	27 28	19 22	12.9 19.3	99.33 99.36	Rain Showers Mostly Cloudy
May 22 2006, 16:00 May 22 2006, 17:00	9.7 10.7	9.4	96 94	30	26	19.3	99.46	Rain Showers
May 22 2006, 17:00 May 22 2006, 18:00	9.3	8.4	94	30	24	16.1	99.55	Cloudy
May 22 2006, 19:00	10.2	8.4	89	30	22	16.1	99.66	Mostly Cloudy
May 22 2006, 20:00	9.8	7.9	88	30	24	16.1	99.76	Cloudy
May 22 2006, 21:00	9.6	7.4	86	32	26	24.1	99.85	Cloudy
May 22 2006, 22:00	9.2	7.1	87	32	22	24.1	99.91	Cloudy
May 22 2006, 23:00	8.8	6.7	87 85	32	26	24.1	99.96	Mostly Cloudy
May 23 2006, 00:00 May 23 2006, 01:00	8.4 8.1	6 5.3	85 82	32 31	24 24	24.1 24.1	99.99 100.01	Cloudy Cloudy
May 23 2006, 01:00 May 23 2006, 02:00	7.7	5.3 5.2	84	30	20	24.1	100.01	Cloudy
May 23 2006, 03:00	7.4	4.7	83	31	20	24.1	99.99	Cloudy
								•
May 23 2006, 04:00	7	4.7	85	31	19	24.1	99.94	Mostly Cloudy
	7 6.9 7.1	4.7 5.3	85 90	31 29	19 15	24.1 24.1	99.94 100	Mostly Cloudy Mostly Cloudy

Date/Time	Temp (°C)	Dew Point Temp (°C)	Rel Hum (%)	Wind Dir (10's deg)	Wind Spd (km/h)	Visibility (km)	Stn Press (kPa)	Weather
May 23 2006, 07:00	7.7	5.8	88	28	20	24.1	100.11	Mostly Cloudy
May 23 2006, 08:00	8.8	6.2	84	30	15	24.1	100.13	Cloudy
May 23 2006, 09:00 May 23 2006, 10:00	9.1 10.4	5.6 6.2	79 75	29 30	24 26	24.1 24.1	100.14 100.13	Cloudy Mainly Clear
May 23 2006, 10:00	10.9	6.8	76	29	22	24.1	100.13	Mainly Clear
May 23 2006, 12:00	10.2	7	81	28	20	24.1	100.12	Clear
May 23 2006, 13:00	10.5	7.1	79	28	24	24.1	100.07	Clear
May 23 2006, 14:00	10.8	6.3	74	28	24	24.1	100.08	Clear
May 23 2006, 15:00	10.3	6.4	77	28	22	24.1	100.08	Clear
May 23 2006, 16:00	10.5	7.1	79	27	28	24.1	100.07	Mainly Clear
May 23 2006, 17:00	9.9	6.9 6.4	82 83	26 26	26 19	24.1	100.08	Mainly Clear
May 23 2006, 18:00 May 23 2006, 19:00	9.1 8.6	6	84	25	17	24.1 24.1	100.1 100.15	Mainly Clear Mainly Clear
May 23 2006, 20:00	8	5.8	86	24	15	24.1	100.18	Mostly Cloudy
May 23 2006, 21:00	7.3	6.1	92	26	15	24.1	100.22	Mainly Clear
May 23 2006, 22:00	7.9	6.9	93	28	11	19.3	100.24	Mostly Cloudy
May 23 2006, 23:00	7.5	7	97	33	9	19.3	100.24	Cloudy
May 24 2006, 00:00	8.3	7.6	95	26	7	19.3	100.24	Mostly Cloudy
May 24 2006, 01:00	8.4	7.6	95	29	9	19.3	100.25	Cloudy
May 24 2006, 02:00	8.8 8.7	7.4 7.2	91 90	33 32	13 15	19.3 19.3	100.24 100.24	Cloudy Mostly Cloudy
May 24 2006, 03:00 May 24 2006, 04:00	8.2	6.9	92	31	13	19.3	100.24	Mostly Cloudy Cloudy
May 24 2006, 05:00	7.8	7	95	31	13	24.1	100.27	Cloudy
May 24 2006, 06:00	8	7.3	95	30	11	24.1	100.34	Cloudy
May 24 2006, 07:00	9	8	93	33	15	24.1	100.37	Mostly Cloudy
May 24 2006, 08:00	9.1	8	93	32	9	24.1	100.43	Cloudy
May 24 2006, 09:00	10.7	8.8	88	31	7	24.1	100.43	Cloudy
May 24 2006, 10:00	13	9.5	79	32	11	24.1	100.45	Mainly Clear
May 24 2006, 11:00	13.7	9.3	75 70	30	20	24.1	100.44	Mostly Cloudy
May 24 2006, 12:00	13.5	9.8	78 70	31	22	24.1	100.45	Mostly Cloudy
May 24 2006, 13:00 May 24 2006, 14:00	12.8 13.4	9.2 9.3	79 76	31 32	28 24	24.1 24.1	100.48 100.46	Mostly Cloudy Mostly Cloudy
May 24 2006, 14:00	13.5	8.9	74	30	19	24.1	100.40	Mostly Cloudy
May 24 2006, 16:00	12.7	9.6	81	31	9	24.1	100.5	Mostly Cloudy
May 24 2006, 17:00	13.8	9	73	31	19	24.1	100.51	Mostly Cloudy
May 24 2006, 18:00	11.7	8.5	81	32	19	24.1	100.52	Mainly Clear
May 24 2006, 19:00	10.9	7.8	81	33	19	24.1	100.56	Clear
May 24 2006, 20:00	9.1	7.3	88	32	20	24.1	100.6	Mainly Clear
May 24 2006, 21:00	8.5	7.4	93	34	15	24.1	100.66	Mainly Clear
May 24 2006, 22:00	8.4	7.8	96 05	35	13	24.1	100.71	Mainly Clear
May 24 2006, 23:00 May 25 2006, 00:00	8.3 9.1	7.6 7.6	95 90	32 34	19 9	24.1 24.1	100.75 100.76	Mostly Cloudy Cloudy
May 25 2006, 01:00	9.1	7.9	92	35	7	24.1	100.76	Mostly Cloudy
May 25 2006, 02:00	8.2	7.2	93	29	7	24.1	100.73	Mostly Cloudy
May 25 2006, 03:00	7.5	6.8	95	33	7	24.1	100.73	Cloudy
May 25 2006, 04:00	7.6	6.7	94	2	4	24.1	100.74	Mostly Cloudy
May 25 2006, 05:00	7.1	6.7	97	5	6	24.1	100.75	Mostly Cloudy
May 25 2006, 06:00	9.4	8.5	94	13	6	24.1	100.8	Mostly Cloudy
May 25 2006, 07:00	12.5	8.8	78 76	15	6	24.1	100.86	Mainly Clear
May 25 2006, 08:00 May 25 2006, 09:00	13.2 14.2	9.1 8.2	76 67	24 18	7 13	24.1 24.1	100.89 100.88	Mostly Cloudy Mainly Clear
May 25 2006, 09:00 May 25 2006, 10:00	14.9	8.1	64	20	7	24.1	100.88	Mainly Clear
May 25 2006, 11:00	15.2	8.5	64	24	11	24.1	100.89	Mainly Clear
May 25 2006, 12:00	15.5	8.7	64	25	19	24.1	100.88	Mainly Clear
May 25 2006, 13:00	14.6	8.8	68	24	19	24.1	100.86	Mostly Cloudy
May 25 2006, 14:00	13.8	9.2	74	22	13	24.1	100.81	Cloudy
May 25 2006, 15:00	14	9.5	74	25	13	24.1	100.8	Cloudy
May 25 2006, 16:00 May 25 2006, 17:00	13.8 13.8	8.3	69 69	22	19 15	24.1	100.75 100.75	Cloudy
May 25 2006, 17:00	11.4	8.1 7.4	68 76	18 23	15 15	24.1 24.1	100.73	Cloudy Cloudy
May 25 2006, 19:00	10.5	7	79	22	22	24.1	100.74	Cloudy
May 25 2006, 20:00	10.2	6.8	79	22	15	24.1	100.72	Cloudy
May 25 2006, 21:00	9.5	7	84	20	28	24.1	100.75	Cloudy
May 25 2006, 22:00	10	6.9	81	19	24	24.1	100.72	Cloudy
May 25 2006, 23:00	10.2	6.3	77	20	26	24.1	100.67	Cloudy
May 26 2006, 00:00	10.2	6.2	76	19	20	24.1	100.66	Cloudy
May 26 2006, 01:00	10.3	6.6	78 94	19	22	24.1	100.65	Cloudy
May 26 2006, 02:00	10.6	7.4 7.0	81 86	19 17	22	24.1	100.6	Cloudy
May 26 2006, 03:00 May 26 2006, 04:00	10.2 9.8	7.9 7.6	86 86	17 15	24 26	24.1 24.1	100.56 100.5	Cloudy Cloudy
May 26 2006, 04:00 May 26 2006, 05:00	9.8	7.6 7.9	91	17	26 15	24.1	100.5	Cloudy
May 26 2006, 05:00	10.1	8.9	92	17	17	24.1	100.49	Cloudy
May 26 2006, 07:00	10.8	9.5	92	19	17	24.1	100.45	Cloudy
May 26 2006, 08:00	12	10.2	89	18	20	19.3	100.52	Cloudy
May 26 2006, 09:00	13.3	10.4	83	21	24	19.3	100.54	Cloudy
May 26 2006, 10:00	14	10.5	79	18	19	24.1	100.53	Cloudy
May 26 2006, 11:00	17.5	11.8	69	21	24	24.1	100.53	Cloudy
May 26 2006, 12:00	19.4	15.2	77	21	22	24.1	100.51	Cloudy

Date/Time	Temp (°C)	Dew Point Temp (°C)	Rel Hum (%)	Wind Dir (10's deg)	Wind Spd (km/h)	Visibility (km)	Stn Press (kPa)	Weather
May 26 2006, 13:00	18.7	15	79	(10's deg) 19	24	19.3	100.45	Cloudy
May 26 2006, 14:00	17.8	15.2	85	19	22	16.1	100.41	Cloudy
May 26 2006, 15:00	14.9	13.8	93	18	28	4.8	100.39	Fog
May 26 2006, 16:00	13.8	12.8	94	18	26	6.4	100.37	Fog
May 26 2006, 17:00 May 26 2006, 18:00	12.9 13.9	12.6 13.4	98 97	16 17	15 15	4.8 6.4	100.32 100.25	Fog Fog
May 26 2006, 19:00	15.5	15.1	97	15	19	12.9	100.19	Cloudy
May 26 2006, 20:00	14	14	100	15	22	3.2	100.13	Fog
May 26 2006, 21:00	13.4	13.4	100	16	20	0.6	100.1	Fog
May 26 2006, 22:00 May 26 2006, 23:00	12.6 12.4	12.6 12.4	100 100	16 15	24 22	0.6 0.4	100.07 100	Fog Fog
May 27 2006, 00:00	12.4	12.4	100	16	15	1.2	99.94	Thunderstorms, Heavy Rain Showers, Fog
May 27 2006, 01:00	12.2	12.2	100	7	13	3.2	99.74	Thunderstorms, Rain Showers, Fog
May 27 2006, 02:00	12.1	12.1	100	20	13	3.2	99.84	Heavy Rain Showers, Fog
May 27 2006, 03:00	11.6	11.6	100	30	4	4	99.72	Fog
May 27 2006, 04:00 May 27 2006, 05:00	11.4 11.5	11.4 11.5	100 100	25 0	4 0	3.2 3.2	99.73 99.74	Rain Showers, Fog Rain Showers, Fog
May 27 2006, 06:00	12.4	12.4	100	0	0	0.4	99.81	Fog
May 27 2006, 07:00	13.3	13.3	100	18	7	0.2	99.88	Fog
May 27 2006, 08:00	11.7	11.7	100	17	7	0.2	99.95	Fog
May 27 2006, 09:00	12.6	12.6	100	21	6	0.8	100.03	Fog
May 27 2006, 10:00	11.9	11.9 11.6	100	24 25	11 15	0.2	100.08	Fog
May 27 2006, 11:00 May 27 2006, 12:00	11.6 11.7	11.6 11.7	100 100	25 25	13	1.2 0.8	100.15 100.21	Fog Fog
May 27 2006, 13:00	13	13	100	26	17	8	100.23	Fog
May 27 2006, 14:00	12.1	12.1	100	28	17	1.2	100.29	Fog
May 27 2006, 15:00	13.3	12.6	96	22	7	8	100.26	Fog
May 27 2006, 16:00 May 27 2006, 17:00	13.5 16.6	13.1 15	97 90	30 30	11 4	8 16.1	100.33 100.35	Fog Cloudy
May 27 2006, 17:00 May 27 2006, 18:00	16.8	15	89	27	6	19.3	100.33	Cloudy
May 27 2006, 19:00	12	11.8	99	25	9	1.6	100.49	Fog
May 27 2006, 20:00	9.4	9.4	100	27	4	0.2	100.57	Fog
May 27 2006, 21:00	9.1	9.1	100	28	6	0.8	100.63	Fog
May 27 2006, 22:00 May 27 2006, 23:00	8.9 8	8.9 8	100 100	29 27	9 4	6.4 0.8	100.69 100.75	Fog Fog
May 28 2006, 00:00	8.2	8.2	100	30	7	0.4	100.75	Fog
May 28 2006, 01:00	8.4	8.4	100	33	7	0.4	100.83	Fog
May 28 2006, 02:00	11.2	11.2	100	5	7	1.2	100.94	Fog
May 28 2006, 03:00	11.8	11.8	100	1	6	16.1	100.98	Mostly Cloudy
May 28 2006, 04:00 May 28 2006, 05:00	11.6 10	11.6 10	100 100	0 0	0 0	12.9 1.6	101.04 101.17	Clear Fog
May 28 2006, 06:00	11.7	11.7	100	14	7	0.6	101.17	Fog
May 28 2006, 07:00	14	14	100	18	2	4.8	101.27	Fog
May 28 2006, 08:00	16.8	14.7	87	25	6	16.1	101.37	Mainly Clear
May 28 2006, 09:00	16.5 16.2	15 14	91 87	26 26	7 15	19.3 24.1	101.42 101.44	Mainly Clear Mainly Clear
May 28 2006, 10:00 May 28 2006, 11:00	16.6	13.2	80	26	13	24.1	101.44	Mainly Clear
May 28 2006, 12:00	16.3	12.8	80	27	13	24.1	101.51	Mostly Cloudy
May 28 2006, 13:00	17	12.1	73	26	11	24.1	101.5	Mostly Cloudy
May 28 2006, 14:00	17.1	11	67	27	17	24.1	101.49	Cloudy
May 28 2006, 15:00 May 28 2006, 16:00	17.1 16.8	12.5 12.8	74 77	26 24	17 15	24.1 24.1	101.48 101.44	Cloudy Cloudy
May 28 2006, 17:00	15.6	11.8	78	23	13	24.1	101.46	Cloudy
May 28 2006, 18:00	14.8	11.5	81	24	13	24.1	101.45	Cloudy
May 28 2006, 19:00	14	11.5	85	21	9	24.1	101.45	Cloudy
May 28 2006, 20:00 May 28 2006, 21:00	11.6 11	10.8 11	95 100	19 21	9 9	19.3 1.2	101.44 101.46	Cloudy
May 28 2006, 21:00 May 28 2006, 22:00	10.1	10.1	100	23	9 7	1.2	101.46	Fog Fog
May 28 2006, 23:00	9.3	9.3	100	25	6	0.6	101.51	Fog
May 29 2006, 00:00	9.1	9.1	100	19	6	1.6	101.47	Fog
May 29 2006, 01:00	10.2	10.2	100	19	6	14.5	101.39	Mainly Clear
May 29 2006, 02:00 May 29 2006, 03:00	11 11.2	10.7 10.8	98 97	24 25	13 7	16.1 16.1	101.41 101.39	Mainly Clear Mainly Clear
May 29 2006, 04:00	11.6	11	96	24	13	19.3	101.39	Mainly Clear
May 29 2006, 05:00	11.6	10.9	95	22	11	19.3	101.37	Cloudy
May 29 2006, 06:00	12.6	11.7	94	20	7	19.3	101.35	Cloudy
May 29 2006, 07:00	14 16 1	12.6	91 80	22	22 15	19.3 16.1	101.38 101.38	Mostly Cloudy
May 29 2006, 08:00 May 29 2006, 09:00	16.1 15.7	12.7 13.2	80 85	23 22	15 15	16.1 16.1	101.38	Mostly Cloudy Cloudy
May 29 2006, 10:00	14.6	13.2	90	23	19	16.1	101.39	Cloudy
May 29 2006, 11:00	14.8	12.7	87	23	20	16.1	101.34	Cloudy
May 29 2006, 12:00	14.9	12.7	87	20	22	16.1	101.29	Cloudy
May 29 2006, 13:00	16.2	13.8	86 85	23	19	16.1	101.29	Cloudy
May 29 2006, 14:00 May 29 2006, 15:00	15.6 15.3	13.1 12.9	85 86	25 25	20 20	16.1 16.1	101.23 101.19	Cloudy Cloudy
May 29 2006, 16:00	14.7	12.6	87	25	22	16.1	101.15	Cloudy
May 29 2006, 17:00	14	12	88	26	11	12.9	101.2	Cloudy
May 29 2006, 18:00	14	12	88	27	15	16.1	101.21	Mainly Clear

		Dew Point	Rel Hum	Wind Dir	Wind Spd	Visibility	Stn Press	
Date/Time	Temp (°C)	Temp (°C)	(%)	(10's deg)	(km/h)	(km)	(kPa)	Weather
May 29 2006, 19:00	12.7	11.3	91	25	7	19.3	101.2	Mostly Cloudy
May 29 2006, 20:00	12.2	11	92	23	9	19.3	101.18	Mostly Cloudy
May 29 2006, 21:00	11.5	10.8	95	0	0	24.1	101.26	Mostly Cloudy
May 29 2006, 22:00	11	10.3	95	0	0	19.3	101.3	Mostly Cloudy
May 29 2006, 23:00	11.4	10.7	95	0	0	19.3	101.3	Cloudy
May 30 2006, 00:00	12	11.1	94	12	4	19.3	101.34	Cloudy
May 30 2006, 01:00	12	11.2	95	10	7	19.3	101.36	Cloudy
May 30 2006, 02:00	13.3	12.4	94	11	9	24.1	101.37	Cloudy
May 30 2006, 03:00	13.5	12.1	91	11	13	24.1	101.41	Mostly Cloudy
May 30 2006, 04:00	13.5	11.5	88	11	13	24.1	101.45	Mostly Cloudy
May 30 2006, 05:00	13.8	11.4	85	11	15	24.1	101.55	Mostly Cloudy
May 30 2006, 06:00	14.6	10.1	74	10	17	24.1	101.68	Mostly Cloudy
May 30 2006, 07:00	15.3	8.3	63	10	20	24.1	101.74	Mostly Cloudy
May 30 2006, 08:00	16.6	6.5	51	11	15	24.1	101.79	Mostly Cloudy
May 30 2006, 09:00	18.5	5.9	44	12	19	24.1	101.84	Mostly Cloudy
May 30 2006, 10:00	19.1	5.3	40	13	20	24.1	101.87	Mainly Clear
May 30 2006, 11:00	20.9	4.8	35	14	24	24.1	101.88	Mainly Clear
May 30 2006, 12:00	22.2	5.4	34	16	22	24.1	101.91	Clear
May 30 2006, 13:00	22	4.6	32	16	19	24.1	101.87	Mainly Clear
May 30 2006, 14:00	21.6	3.7	31	15	22	24.1	101.88	Clear
May 30 2006, 15:00	20.4	3.8	33	18	20	24.1	101.92	Mainly Clear
May 30 2006, 16:00	19	7.6	48	17	17	24.1	101.93	Mostly Cloudy
May 30 2006, 17:00	17.6	5.8	46	18	13	24.1	101.96	Cloudy
May 30 2006, 18:00	17	4.8	44	16	15	24.1	102	Cloudy
May 30 2006, 19:00	14.8	8.5	66	16	9	24.1	102.04	Cloudy
May 30 2006, 20:00	12.9	5.9	62	17	9	24.1	102.08	Cloudy
May 30 2006, 21:00	12	5.9	66	16	13	24.1	102.09	Cloudy
May 30 2006, 22:00	10.6	5.6	71	16	7	24.1	102.09	Cloudy
May 30 2006, 23:00	9.5	4.9	73	18	7	24.1	102.09	Mostly Cloudy
May 31 2006, 00:00	9	4.2	72	13	7	24.1	102.08	Mostly Cloudy
May 31 2006, 01:00	8.2	4.2	76	10	4	24.1	102.11	Mostly Cloudy
May 31 2006, 02:00	8.4	3.7	72	12	6	24.1	102.11	Mostly Cloudy
May 31 2006, 03:00	8.9	4.1	72	13	6	24.1	102.11	Cloudy
May 31 2006, 04:00	8.9	4.5	74	12	4	24.1	102.11	Mostly Cloudy
May 31 2006, 05:00	8.5	4.9	78	11	7	24.1	102.13	Mostly Cloudy
May 31 2006, 06:00	10.4	6.2	75	11	4	24.1	102.13	Mostly Cloudy
May 31 2006, 07:00	13.4	7.2	66	17	15	24.1	102.07	Mostly Cloudy
May 31 2006, 08:00	13.5	7.3	66	15	19	24.1	102.1	Mostly Cloudy
May 31 2006, 09:00	14.6	8.1	65	18	24	24.1	102.05	Cloudy
May 31 2006, 10:00	14.8	8.3	65	18	22	24.1	102.02	Cloudy
May 31 2006, 11:00	14.4	7.8	65	18	26	24.1	102	Cloudy
May 31 2006, 12:00	13.3	8	70	18	15	24.1	101.95	Cloudy
May 31 2006, 13:00	14.5	8.1	65	19	22	24.1	101.89	Cloudy
May 31 2006, 14:00	13.5	7.9	69	18	19	24.1	101.86	Cloudy
May 31 2006, 15:00	16.6	9.8	64	18	24	24.1	101.83	Cloudy
May 31 2006, 16:00	15.5	9.2	66	19	26	24.1	101.75	Mostly Cloudy
May 31 2006, 10:00	14.7	9.9	73	18	26	24.1	101.73	Cloudy
May 31 2006, 17:00	13.9	10.3	79	20	22	24.1	101.61	Mostly Cloudy
May 31 2006, 19:00	13.1	10.3	84	16	28	24.1	101.6	Cloudy
May 31 2006, 19:00	12.7	10.4	88	18	19	24.1	101.58	Cloudy
May 31 2006, 20:00	12.7	11.1	92	20	24	24.1	101.56	Mostly Cloudy
May 31 2006, 21:00	12.3	11.1	92 95	18	22	19.3	101.54	Mainly Clear
•			95 99	19	19	19.3		,
May 31 2006, 23:00	12.3	12.1	99	19	19	19.3	101.45	Mostly Cloudy

Appendix C: Wind Speed and Sound Level Data Recorded (West Pubnico)



 Date and Time	10 Minute Average (Leq) Sound Level [dBA]	Wind Speed from Meterological Tower [m/s]	Wind Speed at WTG 14 [m/s]	Sound Level Criteria under MOE NPC-232 + Interpretation	Wind Direction from Meterological Tower [Degrees]
05 May 2006, 17:50	45.7	3.7	6.3	41.6	181
05 May 2006, 18:00	45.7	4	6.3	41.6	189
05 May 2006, 18:10	45.8	3.4	6.6	42.2	187
05 May 2006, 18:20	45.7	3.5	6.6	42.2	185
05 May 2006, 18:30	46.3	3.6	6.5	42	181
05 May 2006, 18:40	46.5	4	6.1	41.2	180
05 May 2006, 18:50	46.2	4.6	6.2	41.4	181
05 May 2006, 19:00	46.5	4.3	7	43	187
05 May 2006, 19:10	46.4	4.3	6.9	42.8	186
05 May 2006, 19:20	47.1	4.3	6.7	42.4	188
05 May 2006, 19:30	47.2	4.3	6.7	42.4	198
•	46.6	4.3 4.7	6.5	42.4 42	199
05 May 2006, 19:40					
05 May 2006, 19:50	45.8	4.9	6.8	42.6	190
05 May 2006, 20:00	45.8	4.7	6.5	42	191
05 May 2006, 20:10	45.7	4.7	6.3	41.6	188
05 May 2006, 20:20	45.4	4.6	6.6	42.2	177
05 May 2006, 20:30	46.5	4.9	6.5	42	167
05 May 2006, 20:40	49.1	4.4	6.5	42	166
05 May 2006, 20:50	51	4.5	6.3	41.6	167
05 May 2006, 21:00	52	4.2	6.4	41.8	172
05 May 2006, 21:10	52.2	4	6.6	42.2	172
05 May 2006, 21:20	52	3.8	6.2	41.4	167
05 May 2006, 21:30	51.9	3.9	5.7	40	166
05 May 2006, 21:40	52.7	4.2	5.7	40	176
05 May 2006, 21:50	53.1	4.4	5.6	40	187
05 May 2006, 22:00	53.3	4.3	5.8	40	185
05 May 2006, 22:10	53.2	4.3	5.7	40	178
05 May 2006, 22:20	52.6	4.3	5.4	40	171
05 May 2006, 22:30	52.6	4.4	5.5	40	171
05 May 2006, 22:40	52.7	4.9	6	41	174
05 May 2006, 22:50	52.4	4.7	6.3	41.6	173
05 May 2006, 23:00	52.2	4.3	6.2	41.4	173
05 May 2006, 23:10	52	4.3	6.2	41.4	173
	52.2	4.2	6.1	41.2	173
05 May 2006, 23:20	52.2 51.7	4.2 4.5	6	41.2	174
05 May 2006, 23:30					
05 May 2006, 23:40	51.7	4.7	6.3	41.6	169
05 May 2006, 23:50	52.1	4.7	6	41	168
06 May 2006, 0:00	51.2	4.8	5.9	40	167
06 May 2006, 0:10	50.6	4.6	6.1	41.2	164
06 May 2006, 0:20	50.8	4.9	6.1	41.2	166
06 May 2006, 0:30	50.9	4.8	5.9	40	174
06 May 2006, 0:40	50.4	4.9	5.6	40	173
06 May 2006, 0:50	51.1	4.9	5.7	40	177
06 May 2006, 1:00	51.1	4.7	5.8	40	173
06 May 2006, 1:10	50.9	4.9	5.6	40	173
06 May 2006, 1:20	51	4.5	5.4	40	180
06 May 2006, 1:30	50.5	4.7	5.7	40	175
06 May 2006, 1:40	50.7	5.1	6	41	179
06 May 2006, 1:50	50.4	5.1	6.1	41.2	181
06 May 2006, 2:00	49.2	5.2	5.8	40	181
06 May 2006, 2:10	48.7	5.1	5.8	40	179
06 May 2006, 2:20	47.9	4.6	6.2	41.4	181
06 May 2006, 2:30	48.1	4.9	6	41	184
06 May 2006, 2:40	47.4	5	6.3	41.6	186
06 May 2006, 2:50	47.3	5.4	6.4	41.8	184
06 May 2006, 3:00	46.2	5.1	6.6	42.2	180
•		5.1 4.7	6.2	42.2 41.4	177
06 May 2006, 3:10	46.6 46.2				
06 May 2006, 3:20 06 May 2006, 3:30	46.3 45.9	5.2 5.8	5.6 6.1	40 41.2	183 182

Date and Time	10 Minute Average (Leq) Sound Level [dBA]	Wind Speed from Meterological Tower [m/s]	Wind Speed at WTG 14 [m/s]	Sound Level Criteria under MOE NPC-232 + Interpretation	Wind Direction from Meterological Tower [Degrees]
06 May 2006, 3:40	46	6	6.6	42.2	173
06 May 2006, 3:50	45.1	5.2	6.3	41.6	179
06 May 2006, 4:00	45.1	4.5	6.2	41.4	180
06 May 2006, 4:10	44.7	4.8	5.6	40	170
				40	
06 May 2006, 4:20	44.6	4	5.5		168
06 May 2006, 4:30	44.3	4.1	5.1	40	161
06 May 2006, 4:40	43.4	3.9	4.9	40	168
06 May 2006, 4:50	43.3	4.1	4.7	40	172
06 May 2006, 5:00	43.2	3.5	5	40	170
06 May 2006, 5:10	43	3.5	4.6	40	174
06 May 2006, 5:20	43.3	3.4	4.3	40	170
06 May 2006, 5:30	44.7	3.2	4.7	40	174
06 May 2006, 5:40	44.7	3.8	4.4	40	171
06 May 2006, 5:50	43.2	3.9	4.6	40	163
06 May 2006, 6:00	43.7	4.3	4.7	40	167
06 May 2006, 6:10	41.8	3.7	4.9	40	169
06 May 2006, 6:20	43.3	3.2	4.8	40	169
06 May 2006, 6:30	42.9	3.3	4.2	40	159
06 May 2006, 6:40	42.1	2.7	4.6	40	161
06 May 2006, 6:50	42.1	2.8	4.5	40	166
•	47.2	2.8	4.3	40	169
06 May 2006, 7:00					
06 May 2006, 7:10	40	2.4	4.4	40	168
06 May 2006, 7:20	44.5	2.7	4.3	40	159
06 May 2006, 7:30	47.2	2.7	4.2	40	158
06 May 2006, 7:40	44.4	3	4.6	40	158
06 May 2006, 7:50	40.8	3.2	5.2	40	160
06 May 2006, 8:00	42.1	2.5	5.1	40	158
06 May 2006, 8:10	43.6	3	4.5	40	158
•	43.1	3	4.4	40	156
06 May 2006, 8:20					
06 May 2006, 8:30	43.4	3.1	4.5	40	162
06 May 2006, 8:40	43.2	4	4.8	40	159
06 May 2006, 8:50	41.7	3.4	4.5	40	165
06 May 2006, 9:00	42.3	3.3	4.7	40	168
06 May 2006, 9:10	43	3.5	4.5	40	169
06 May 2006, 9:20	44.8	4.3	4.7	40	166
06 May 2006, 9:30	43.1	4.5	5.2	40	166
06 May 2006, 9:40	43.4	4.9	5.5	40	163
06 May 2006, 9:50	43.5	4.3	5.7	40	163
06 May 2006, 10:00	45.9	5	5.7	40	161
06 May 2006, 10:10	44.1	5.1	5.9	40	163
06 May 2006, 10:20	45.4	4.7	6	41	162
06 May 2006, 10:30	44.1	4.9	6	41	155
06 May 2006, 10:40	44.4	5.2	5.5	40	158
06 May 2006, 10:50	45.3	5.6	5.4	40	157
06 May 2006, 11:00	45.4	5	5.7	40	153
06 May 2006, 11:10	49.9	6.2	5.9	41.4	148
06 May 2006, 11:20	52.1	5.1	5.6	40	154
06 May 2006, 11:30	46.1	4.3	5.6	40	156
06 May 2006, 11:40	46.3	4	5.1	40	157
06 May 2006, 11:50	46.8	4.3	4.9	40	158
06 May 2006, 12:00	46.6	3.8	5.2	40	163
06 May 2006, 12:10	45.4	4.1	4.9	40	161
06 May 2006, 12:20	45.8	4.2	5	40	162
06 May 2006, 12:30	46.5	4.7	5.4	40	163
06 May 2006, 12:40	46.1	6.4	5.9	41.8	165
06 May 2006, 12:50	45.6	6.2	6.1	41.4	158
06 May 2006, 13:00	46.9	4.6	6.5	42	154
06 May 2006, 13:10	46.2	6.6	6.2	42.2	155
00 May 2000. 13.10					

Date and Time	10 Minute Average (Leq) Sound Level [dBA]	Wind Speed from Meterological Tower [m/s]	Wind Speed at WTG 14 [m/s]	Sound Level Criteria under MOE NPC-232 + Interpretation	Wind Direction from Meterological Tower [Degrees]
06 May 2006, 13:30	45.8	5.4	7.5	44	175
06 May 2006, 13:40	47.6	5.6	6.8	42.6	185
06 May 2006, 13:50	47.1	6.8	6.4	42.6	180
06 May 2006, 14:00	46.3	7.6	6.4	44.2	174
06 May 2006, 14:10	47.1	6	8	45	171
06 May 2006, 14:20	47.2	5.5	7.1	43.2	174
06 May 2006, 14:30	46.8	6.6	6.8	42.6	173
06 May 2006, 14:40	48.7	6.1	6.7	42.4	172
06 May 2006, 14:50	48.9	5.6	6.7	42.4	172
06 May 2006, 15:00	49.2	6.7	6.8	42.6	172
06 May 2006, 15:10	49.2	7.5	7.4	44	172
06 May 2006, 15:20	49.1	7.7	7.6	44.4	161
06 May 2006, 15:30	48.6	7.7	7.2	44.4	161
06 May 2006, 15:40	47.4	7.7	7.2	44.4	161
06 May 2006, 15:50	47.5	6.9	7.8	44.6	171
06 May 2006, 15:30 06 May 2006, 16:00	47.6	6.4	7.0 7.1	43.2	173
•					
06 May 2006, 16:10	47	6.7	6.3	42.4	228
06 May 2006, 16:20	46.1	6.7	7.7	44.4	266
06 May 2006, 16:30	46.2	5.5	7.6	44.2	283
06 May 2006, 16:40	46.7	5.1	6.4	41.8	269
06 May 2006, 16:50	45.5	5.6	6	41	270
06 May 2006, 17:00	46	3.9	5.7	40	270
06 May 2006, 17:10	44.8	4.3	5.9	40	270
06 May 2006, 17:20	42.8	3.5	6.8	42.6	270
06 May 2006, 17:30	38.4	2.9	6.6	42.2	270
06 May 2006, 17:40	40.3	2.2	5.9	40	270
06 May 2006, 17:50	40.9	1.2	4.6	40	270
06 May 2006, 18:00	38.8	0.8	4.3	40	270
06 May 2006, 18:10	36	0.7	4.6	40	270
06 May 2006, 18:20	36.4	0.8	4	40	270
06 May 2006, 18:30	37.6	8.0	3.9	40	270
06 May 2006, 18:40	33.7	1.2	3.6	40	270
06 May 2006, 18:50	35.4	1.1	0.6	40	270
06 May 2006, 19:00	34.7	1.1	2.6	40	270
06 May 2006, 19:10	37.6	0.7	2.9	40	270
06 May 2006, 19:20	31.4	0.1	0.7	40	270
06 May 2006, 19:30	31.3	0.6	1.1	40	270
06 May 2006, 19:40	32.2	0.2	2.3	40	270
06 May 2006, 19:50	29.3	0.8	0	40	270
06 May 2006, 19:00	28.7	0.6	0.2	40	270
06 May 2006, 20:10	31.2	0.4	0.2	40	270
06 May 2006, 20:20	37.1	0.4	0.2	40	270
	44.5	0.5	0.2	40	220
06 May 2006, 20:30					
06 May 2006, 20:40	49.1 50.2	0.5	2.9	40	174 174
06 May 2006, 20:50	50.2	0.9	1.4	40	174
06 May 2006, 21:00	51	0.9	2.7	40	176
06 May 2006, 21:10	51.5	1.4	0	40	182
06 May 2006, 21:20	51.9	2.6	3.6	40	188
06 May 2006, 21:30	52.3	2.4	4.1	40	181
06 May 2006, 21:40	52.5	2.7	4.9	40	175
06 May 2006, 21:50	51.7	3	4.9	40	190
06 May 2006, 22:00	52.2	3.2	5.1	40	210
06 May 2006, 22:10	51.6	3.4	5.5	40	220
06 May 2006, 22:20	50.9	3.1	5.2	40	219
06 May 2006, 22:30	49.7	3.8	5.1	40	219
06 May 2006, 22:40	50.3	4.8	5.2	40	221
06 May 2006, 22:50	49.8	3.9	5	40	244
06 May 2006, 23:00	49.1	3.1	4.9	40	257
	. • • •			.~	

06 May 2006, 23:20	Date and Time	10 Minute Average (Leq) Sound Level [dBA]	Wind Speed from Meterological Tower [m/s]	Wind Speed at WTG 14 [m/s]	Sound Level Criteria under MOE NPC-232 + Interpretation	Wind Direction from Meterological Tower [Degrees]
06 May 2006, 23:30	06 May 2006, 23:20	47.4	2.9	5.3	40	258
06 May 2006, 23:40		46.9	3	6	41	249
06 May 2006, 23:50	06 May 2006, 23:40	46.9		6	41	236
07 May 2006, 0:00	06 May 2006, 23:50	46.2	2.8	5.9	40	220
07 May 2006, 0:10		45.9	2.4		43	
07 May 2006, 0:20		45.7		6.6	42.2	
07 May 2006, 0:30	•	44.1		5.7	40	236
07 May 2006, 0:40		44.5	2.3	5.5	40	
07 May 2006, 0:50						
07 May 2006, 1:00	•	44.4				
07 May 2006, 1:10         42.4         3         5.6         40         270           07 May 2006, 1:20         42.5         2.9         6         41         270           07 May 2006, 1:30         42.3         2.9         5.7         40         239           07 May 2006, 1:40         42         2.5         5.5         40         238           07 May 2006, 1:50         42.2         2.1         5.2         40         248           07 May 2006, 2:00         41.8         2.2         4.8         40         256           07 May 2006, 2:10         42.7         2.5         4.8         40         269           07 May 2006, 2:20         42.7         2.9         5         40         270           07 May 2006, 2:30         43.3         3.4         5.1         40         270           07 May 2006, 2:30         43.3         2.7         5.9         40         270           07 May 2006, 2:50         42         4.2         5.7         40         284           07 May 2006, 3:00         41.7         4         6.5         42         320           07 May 2006, 3:20         42.3         2.4         5.6         40         329					40	
07 May 2006, 1:20         42.5         2.9         6         41         270           07 May 2006, 1:30         42.3         2.9         5.7         40         238           07 May 2006, 1:40         42         2.5         5.5         40         238           07 May 2006, 1:50         42.2         2.1         5.2         40         248           07 May 2006, 2:00         41.8         2.2         4.8         40         256           07 May 2006, 2:10         42.7         2.5         4.8         40         269           07 May 2006, 2:30         43.3         3.4         5.1         40         270           07 May 2006, 2:30         43.3         3.4         5.1         40         270           07 May 2006, 2:40         43.3         2.7         5.9         40         270           07 May 2006, 2:50         42         4.2         5.7         40         284           07 May 2006, 3:00         41.7         4         6.5         42         320           07 May 2006, 3:00         42.2         3         5.3         40         329           07 May 2006, 3:20         42.3         2.4         5.6         40         321 <td>•</td> <td></td> <td></td> <td>5.6</td> <td>40</td> <td></td>	•			5.6	40	
07 May 2006, 1:30       42.3       2.9       5.7       40       239         07 May 2006, 1:40       42       2.5       5.5       40       238         07 May 2006, 1:50       42.2       2.1       5.2       40       248         07 May 2006, 2:00       41.8       2.2       4.8       40       256         07 May 2006, 2:10       42.7       2.5       4.8       40       269         07 May 2006, 2:20       42.7       2.9       5       40       270         07 May 2006, 2:30       43.3       3.4       5.1       40       270         07 May 2006, 2:40       43.3       2.7       5.9       40       270         07 May 2006, 2:50       42       4.2       5.7       40       284         07 May 2006, 3:00       41.7       4       6.5       42       320         07 May 2006, 3:00       41.7       4       6.5       42       320         07 May 2006, 3:00       42.2       3       5.3       40       329         07 May 2006, 3:00       42.2       3       5.6       40       321         07 May 2006, 3:30       42.5       2.5       6.6       42.2       321 <td>•</td> <td></td> <td></td> <td></td> <td></td> <td></td>	•					
07 May 2006, 1:40         42         2.5         5.5         40         238           07 May 2006, 1:50         42.2         2.1         5.2         40         248           07 May 2006, 2:00         41.8         2.2         4.8         40         256           07 May 2006, 2:10         42.7         2.5         4.8         40         269           07 May 2006, 2:20         42.7         2.9         5         40         270           07 May 2006, 2:30         43.3         3.4         5.1         40         270           07 May 2006, 2:40         43.3         2.7         5.9         40         270           07 May 2006, 2:50         42         4.2         5.7         40         284           07 May 2006, 3:00         41.7         4         6.5         42         320           07 May 2006, 3:10         42.2         3         5.3         40         329           07 May 2006, 3:00         42.3         2.4         5.6         40         321           07 May 2006, 3:30         42.5         2.5         6.6         42.2         321           07 May 2006, 3:40         43.8         2.7         7.1         43.2         32	•					
07 May 2006, 1:50         42.2         2.1         5.2         40         248           07 May 2006, 2:00         41.8         2.2         4.8         40         256           07 May 2006, 2:10         42.7         2.5         4.8         40         269           07 May 2006, 2:20         42.7         2.9         5         40         270           07 May 2006, 2:30         43.3         3.4         5.1         40         270           07 May 2006, 2:40         43.3         2.7         5.9         40         270           07 May 2006, 2:50         42         4.2         5.7         40         284           07 May 2006, 3:00         41.7         4         6.5         42         320           07 May 2006, 3:10         42.2         3         5.3         40         329           07 May 2006, 3:20         42.3         2.4         5.6         40         321           07 May 2006, 3:40         43.8         2.7         7.1         43.2         322           07 May 2006, 3:50         44         4.4         6.9         42.8         327           07 May 2006, 4:00         43.3         3.8         6.9         42.8					40	
07 May 2006, 2:00         41.8         2.2         4.8         40         256           07 May 2006, 2:10         42.7         2.5         4.8         40         269           07 May 2006, 2:20         42.7         2.9         5         40         270           07 May 2006, 2:30         43.3         3.4         5.1         40         270           07 May 2006, 2:40         43.3         2.7         5.9         40         270           07 May 2006, 2:50         42         4.2         5.7         40         284           07 May 2006, 3:00         41.7         4         6.5         42         320           07 May 2006, 3:10         42.2         3         5.3         40         329           07 May 2006, 3:20         42.3         2.4         5.6         40         321           07 May 2006, 3:40         43.8         2.7         7.1         43.2         322           07 May 2006, 3:50         44         4.4         6.9         42.8         327           07 May 2006, 3:40         43.8         2.7         7.1         43.2         322           07 May 2006, 4:00         43.3         3.8         6.9         42.8 <t< td=""><td></td><td>42.2</td><td></td><td></td><td></td><td></td></t<>		42.2				
07 May 2006, 2:10         42.7         2.5         4.8         40         269           07 May 2006, 2:20         42.7         2.9         5         40         270           07 May 2006, 2:30         43.3         3.4         5.1         40         270           07 May 2006, 2:40         43.3         2.7         5.9         40         270           07 May 2006, 2:50         42         4.2         5.7         40         284           07 May 2006, 3:00         41.7         4         6.5         42         320           07 May 2006, 3:10         42.2         3         5.3         40         329           07 May 2006, 3:20         42.3         2.4         5.6         40         321           07 May 2006, 3:30         42.5         2.5         6.6         42.2         321           07 May 2006, 3:40         43.8         2.7         7.1         43.2         322           07 May 2006, 3:50         44         4.4         6.9         42.8         327           07 May 2006, 4:00         43.3         3.8         6.9         42.8         327           07 May 2006, 4:10         43.5         5.6         7.7         44.4	•				40	
07 May 2006, 2:20         42.7         2.9         5         40         270           07 May 2006, 2:30         43.3         3.4         5.1         40         270           07 May 2006, 2:40         43.3         2.7         5.9         40         270           07 May 2006, 2:50         42         4.2         5.7         40         284           07 May 2006, 3:00         41.7         4         6.5         42         320           07 May 2006, 3:10         42.2         3         5.3         40         329           07 May 2006, 3:20         42.3         2.4         5.6         40         321           07 May 2006, 3:30         42.5         2.5         6.6         42.2         321           07 May 2006, 3:40         43.8         2.7         7.1         43.2         322           07 May 2006, 3:40         43.8         2.7         7.1         43.2         322           07 May 2006, 3:40         43.8         2.7         7.1         43.2         322           07 May 2006, 4:00         43.3         3.8         6.9         42.8         332           07 May 2006, 4:10         43.5         5.6         7.7         44.4	•			4.8	40	
07 May 2006, 2:30       43.3       3.4       5.1       40       270         07 May 2006, 2:40       43.3       2.7       5.9       40       270         07 May 2006, 2:50       42       4.2       5.7       40       284         07 May 2006, 3:00       41.7       4       6.5       42       320         07 May 2006, 3:10       42.2       3       5.3       40       329         07 May 2006, 3:20       42.3       2.4       5.6       40       321         07 May 2006, 3:30       42.5       2.5       6.6       42.2       321         07 May 2006, 3:40       43.8       2.7       7.1       43.2       322         07 May 2006, 3:50       44       4.4       6.9       42.8       327         07 May 2006, 4:00       43.3       3.8       6.9       42.8       332         07 May 2006, 4:00       43.3       3.8       6.9       42.8       332         07 May 2006, 4:00       43.6       7.5       7.7       44.4       331         07 May 2006, 4:30       43.6       7.5       7.7       44.4       338         07 May 2006, 4:50       44.5       6.6       7.4       43.8 <td></td> <td></td> <td></td> <td></td> <td>40</td> <td></td>					40	
07 May 2006, 2:40       43.3       2.7       5.9       40       270         07 May 2006, 2:50       42       4.2       5.7       40       284         07 May 2006, 3:00       41.7       4       6.5       42       320         07 May 2006, 3:10       42.2       3       5.3       40       329         07 May 2006, 3:20       42.3       2.4       5.6       40       321         07 May 2006, 3:30       42.5       2.5       6.6       42.2       321         07 May 2006, 3:40       43.8       2.7       7.1       43.2       322         07 May 2006, 3:50       44       4.4       6.9       42.8       327         07 May 2006, 4:00       43.3       3.8       6.9       42.8       332         07 May 2006, 4:00       43.5       5.6       7.7       44.4       331         07 May 2006, 4:20       43.6       7.5       7.7       44.4       337         07 May 2006, 4:30       43.6       6.6       7.4       43.8       338         07 May 2006, 4:50       44.5       6.6       7.4       43.8       339         07 May 2006, 5:00       44.5       6.9       7.6       44.2<					40	
07 May 2006, 2:50       42       4.2       5.7       40       284         07 May 2006, 3:00       41.7       4       6.5       42       320         07 May 2006, 3:10       42.2       3       5.3       40       329         07 May 2006, 3:20       42.3       2.4       5.6       40       321         07 May 2006, 3:30       42.5       2.5       6.6       42.2       321         07 May 2006, 3:40       43.8       2.7       7.1       43.2       322         07 May 2006, 3:50       44       4.4       6.9       42.8       327         07 May 2006, 4:00       43.3       3.8       6.9       42.8       327         07 May 2006, 4:10       43.5       5.6       7.7       44.4       331         07 May 2006, 4:20       43.6       7.5       7.7       44.4       337         07 May 2006, 4:30       43.6       6.6       7.4       43.8       338         07 May 2006, 4:40       44       6.8       7.5       44       43.8       338         07 May 2006, 5:00       44.5       6.6       7.4       43.8       339         07 May 2006, 5:10       46.1       7.9       7.5 <td></td> <td>43.3</td> <td></td> <td>5.9</td> <td>40</td> <td></td>		43.3		5.9	40	
07 May 2006, 3:00       41.7       4       6.5       42       320         07 May 2006, 3:10       42.2       3       5.3       40       329         07 May 2006, 3:20       42.3       2.4       5.6       40       321         07 May 2006, 3:30       42.5       2.5       6.6       42.2       321         07 May 2006, 3:40       43.8       2.7       7.1       43.2       322         07 May 2006, 3:50       44       4.4       6.9       42.8       327         07 May 2006, 4:00       43.3       3.8       6.9       42.8       322         07 May 2006, 4:00       43.3       3.8       6.9       42.8       332         07 May 2006, 4:10       43.5       5.6       7.7       44.4       331         07 May 2006, 4:20       43.6       7.5       7.7       44.4       337         07 May 2006, 4:30       43.6       6.6       7.4       43.8       338         07 May 2006, 4:40       44       6.8       7.5       44       3.8       339         07 May 2006, 5:00       44.5       6.6       7.4       43.8       339         07 May 2006, 5:10       46.1       7.9       7.5	•	42			40	
07 May 2006, 3:10       42.2       3       5.3       40       329         07 May 2006, 3:20       42.3       2.4       5.6       40       321         07 May 2006, 3:30       42.5       2.5       6.6       42.2       321         07 May 2006, 3:40       43.8       2.7       7.1       43.2       322         07 May 2006, 3:50       44       4.4       6.9       42.8       327         07 May 2006, 4:00       43.3       3.8       6.9       42.8       332         07 May 2006, 4:10       43.5       5.6       7.7       44.4       331         07 May 2006, 4:20       43.6       7.5       7.7       44.4       337         07 May 2006, 4:30       43.6       6.6       7.4       43.8       338         07 May 2006, 4:40       44       6.8       7.5       44       338         07 May 2006, 5:00       44.5       6.6       7.4       43.8       339         07 May 2006, 5:10       46.1       7.9       7.5       44.8       343         07 May 2006, 5:20       48.3       8.1       8       45.2       343         07 May 2006, 5:30       45.8       7.7       7.9       4	07 May 2006, 3:00	41.7	4	6.5		320
07 May 2006, 3:20       42.3       2.4       5.6       40       321         07 May 2006, 3:30       42.5       2.5       6.6       42.2       321         07 May 2006, 3:40       43.8       2.7       7.1       43.2       322         07 May 2006, 3:50       44       4.4       6.9       42.8       327         07 May 2006, 4:00       43.3       3.8       6.9       42.8       332         07 May 2006, 4:10       43.5       5.6       7.7       44.4       331         07 May 2006, 4:20       43.6       7.5       7.7       44.4       337         07 May 2006, 4:30       43.6       6.6       7.4       43.8       338         07 May 2006, 4:40       44       6.8       7.5       44       338         07 May 2006, 5:00       44.5       6.6       7.4       43.8       339         07 May 2006, 5:00       44.5       6.9       7.6       44.2       342         07 May 2006, 5:20       48.3       8.1       8       45.2       343         07 May 2006, 5:30       45.8       7.7       7.9       44.8       344         07 May 2006, 5:40       45.1       7.3       7.7       <	07 May 2006, 3:10	42.2	3	5.3	40	329
07 May 2006, 3:40       43.8       2.7       7.1       43.2       322         07 May 2006, 3:50       44       4.4       6.9       42.8       327         07 May 2006, 4:00       43.3       3.8       6.9       42.8       332         07 May 2006, 4:10       43.5       5.6       7.7       44.4       331         07 May 2006, 4:20       43.6       7.5       7.7       44.4       337         07 May 2006, 4:30       43.6       6.6       7.4       43.8       338         07 May 2006, 4:40       44       6.8       7.5       44       338         07 May 2006, 4:50       44.5       6.6       7.4       43.8       339         07 May 2006, 5:00       44.5       6.9       7.6       44.2       342         07 May 2006, 5:10       46.1       7.9       7.5       44.8       343         07 May 2006, 5:20       48.3       8.1       8       45.2       343         07 May 2006, 5:30       45.8       7.7       7.9       44.8       344         07 May 2006, 5:40       45.1       7.3       7.7       44.4       343		42.3	2.4	5.6	40	321
07 May 2006, 3:50       44       4.4       6.9       42.8       327         07 May 2006, 4:00       43.3       3.8       6.9       42.8       332         07 May 2006, 4:10       43.5       5.6       7.7       44.4       331         07 May 2006, 4:20       43.6       7.5       7.7       44.4       337         07 May 2006, 4:30       43.6       6.6       7.4       43.8       338         07 May 2006, 4:40       44       6.8       7.5       44       338         07 May 2006, 4:50       44.5       6.6       7.4       43.8       339         07 May 2006, 5:00       44.5       6.9       7.6       44.2       342         07 May 2006, 5:10       46.1       7.9       7.5       44.8       343         07 May 2006, 5:20       48.3       8.1       8       45.2       343         07 May 2006, 5:30       45.8       7.7       7.9       44.8       344         07 May 2006, 5:40       45.1       7.3       7.7       44.4       343	07 May 2006, 3:30	42.5	2.5	6.6	42.2	321
07 May 2006, 4:00       43.3       3.8       6.9       42.8       332         07 May 2006, 4:10       43.5       5.6       7.7       44.4       331         07 May 2006, 4:20       43.6       7.5       7.7       44.4       337         07 May 2006, 4:30       43.6       6.6       7.4       43.8       338         07 May 2006, 4:40       44       6.8       7.5       44       338         07 May 2006, 4:50       44.5       6.6       7.4       43.8       339         07 May 2006, 5:00       44.5       6.9       7.6       44.2       342         07 May 2006, 5:10       46.1       7.9       7.5       44.8       343         07 May 2006, 5:20       48.3       8.1       8       45.2       343         07 May 2006, 5:30       45.8       7.7       7.9       44.8       344         07 May 2006, 5:40       45.1       7.3       7.7       44.4       343	07 May 2006, 3:40	43.8	2.7	7.1	43.2	322
07 May 2006, 4:10       43.5       5.6       7.7       44.4       331         07 May 2006, 4:20       43.6       7.5       7.7       44.4       337         07 May 2006, 4:30       43.6       6.6       7.4       43.8       338         07 May 2006, 4:40       44       6.8       7.5       44       338         07 May 2006, 4:50       44.5       6.6       7.4       43.8       339         07 May 2006, 5:00       44.5       6.9       7.6       44.2       342         07 May 2006, 5:10       46.1       7.9       7.5       44.8       343         07 May 2006, 5:20       48.3       8.1       8       45.2       343         07 May 2006, 5:30       45.8       7.7       7.9       44.8       344         07 May 2006, 5:40       45.1       7.3       7.7       44.4       343	07 May 2006, 3:50	44	4.4	6.9	42.8	327
07 May 2006, 4:20       43.6       7.5       7.7       44.4       337         07 May 2006, 4:30       43.6       6.6       7.4       43.8       338         07 May 2006, 4:40       44       6.8       7.5       44       338         07 May 2006, 4:50       44.5       6.6       7.4       43.8       339         07 May 2006, 5:00       44.5       6.9       7.6       44.2       342         07 May 2006, 5:10       46.1       7.9       7.5       44.8       343         07 May 2006, 5:20       48.3       8.1       8       45.2       343         07 May 2006, 5:30       45.8       7.7       7.9       44.8       344         07 May 2006, 5:40       45.1       7.3       7.7       44.4       343	07 May 2006, 4:00	43.3	3.8	6.9	42.8	332
07 May 2006, 4:30       43.6       6.6       7.4       43.8       338         07 May 2006, 4:40       44       6.8       7.5       44       338         07 May 2006, 4:50       44.5       6.6       7.4       43.8       339         07 May 2006, 5:00       44.5       6.9       7.6       44.2       342         07 May 2006, 5:10       46.1       7.9       7.5       44.8       343         07 May 2006, 5:20       48.3       8.1       8       45.2       343         07 May 2006, 5:30       45.8       7.7       7.9       44.8       344         07 May 2006, 5:40       45.1       7.3       7.7       44.4       343	07 May 2006, 4:10	43.5	5.6	7.7	44.4	331
07 May 2006, 4:40     44     6.8     7.5     44     338       07 May 2006, 4:50     44.5     6.6     7.4     43.8     339       07 May 2006, 5:00     44.5     6.9     7.6     44.2     342       07 May 2006, 5:10     46.1     7.9     7.5     44.8     343       07 May 2006, 5:20     48.3     8.1     8     45.2     343       07 May 2006, 5:30     45.8     7.7     7.9     44.8     344       07 May 2006, 5:40     45.1     7.3     7.7     44.4     343	07 May 2006, 4:20	43.6	7.5	7.7	44.4	337
07 May 2006, 4:50     44.5     6.6     7.4     43.8     339       07 May 2006, 5:00     44.5     6.9     7.6     44.2     342       07 May 2006, 5:10     46.1     7.9     7.5     44.8     343       07 May 2006, 5:20     48.3     8.1     8     45.2     343       07 May 2006, 5:30     45.8     7.7     7.9     44.8     344       07 May 2006, 5:40     45.1     7.3     7.7     44.4     343	07 May 2006, 4:30	43.6	6.6	7.4	43.8	338
07 May 2006, 5:00     44.5     6.9     7.6     44.2     342       07 May 2006, 5:10     46.1     7.9     7.5     44.8     343       07 May 2006, 5:20     48.3     8.1     8     45.2     343       07 May 2006, 5:30     45.8     7.7     7.9     44.8     344       07 May 2006, 5:40     45.1     7.3     7.7     44.4     343	07 May 2006, 4:40	44	6.8	7.5	44	338
07 May 2006, 5:10     46.1     7.9     7.5     44.8     343       07 May 2006, 5:20     48.3     8.1     8     45.2     343       07 May 2006, 5:30     45.8     7.7     7.9     44.8     344       07 May 2006, 5:40     45.1     7.3     7.7     44.4     343	07 May 2006, 4:50	44.5	6.6	7.4	43.8	339
07 May 2006, 5:20     48.3     8.1     8     45.2     343       07 May 2006, 5:30     45.8     7.7     7.9     44.8     344       07 May 2006, 5:40     45.1     7.3     7.7     44.4     343	07 May 2006, 5:00	44.5	6.9	7.6	44.2	342
07 May 2006, 5:30 45.8 7.7 7.9 44.8 344 07 May 2006, 5:40 45.1 7.3 7.7 44.4 343	07 May 2006, 5:10	46.1	7.9	7.5	44.8	343
07 May 2006, 5:40 45.1 7.3 7.7 44.4 343	07 May 2006, 5:20	48.3	8.1	8	45.2	343
		45.8		7.9	44.8	
07.14 0000 5.50 45.0 0.0 0.0 0.0 15.0 0.0				7.7		
	07 May 2006, 5:50	45.3	6.9	8	45	347
07 May 2006, 6:00 44.8 7.3 8 45 348						
07 May 2006, 6:10 45.9 7.6 8 45 346	07 May 2006, 6:10					
07 May 2006, 6:20 46.2 7.3 8.1 45.2 349	•					
07 May 2006, 6:30 45.4 7.1 8.3 45.6 349						
07 May 2006, 6:40 46.5 6.8 8.4 45.8 343						
07 May 2006, 6:50 46.2 7.5 8.4 45.8 342	•					
07 May 2006, 7:00 46.2 7 8.5 46 343						
07 May 2006, 7:10 45.9 7.1 8.4 45.8 346						
07 May 2006, 7:20 45.7 6.8 8.6 46.2 344	•					
07 May 2006, 7:30 45.1 6.6 8.3 45.6 343						
07 May 2006, 7:40 45.8 7.5 8.4 45.8 343						
07 May 2006, 7:50 44.6 7.7 8.1 45.2 343						
07 May 2006, 8:00 44.4 7.1 7.6 44.2 342						
07 May 2006, 8:10 44.9 6.9 7.2 43.4 342						
07 May 2006, 8:20 45.4 7.2 7.2 43.4 344	•					
07 May 2006, 8:30 44.5 7.5 7.1 44 340	•					
07 May 2006, 8:40 44.4 7.8 7 44.6 339						
07 May 2006, 8:50 44.3 7.5 6.8 44 337						
07 May 2006, 9:00 44 7.3 6.8 43.6 328	07 May 2006, 9:00	44	7.3	6.8	43.6	328

Date and Time	10 Minute Average (Leq) Sound Level [dBA]	Wind Speed from Meterological Tower [m/s]	Wind Speed at WTG 14 [m/s]	Sound Level Criteria under MOE NPC-232 + Interpretation	Wind Direction from Meterological Tower [Degrees]
07 May 2006, 9:10	44.1	6.5	6.9	42.8	328
07 May 2006, 9:20	45.1	7.1	6.8	43.2	331
07 May 2006, 9:30	60.1	6.3	6.7	42.4	326
07 May 2006, 9:40	44.9	6	7	43	325
				44	
07 May 2006, 9:50	44.4	6.4	7.5		317
07 May 2006, 10:00	44.3	6.7	7.5	44	317
07 May 2006, 10:10	44.4	6.6	7.1	43.2	318
07 May 2006, 10:20	47.3	7	6.8	43	315
07 May 2006, 10:30	56.9	7.3	6.4	43.6	312
07 May 2006, 10:40	45	7	6.7	43	307
07 May 2006, 10:50	43.5	7.2	6.4	43.4	305
07 May 2006, 11:00	44.8	7.2	6.2	43.4	305
07 May 2006, 11:10	45.4	7.7	6.7	44.4	307
07 May 2006, 11:20	44	7.5	6.4	44	305
07 May 2006, 11:30	44.7	8.1	6.7	45.2	302
07 May 2006, 11:40	49.3	8.2	7.5	45.4	301
07 May 2006, 11:50	51.6	8.4	7.6	45.8	303
07 May 2006, 12:00	46.9	8.9	8.1	46.8	306
07 May 2006, 12:10	48.4	8.5	8.3	46	305
07 May 2006, 12:20	52	8.3	8.2	45.6	305
-	50.3	8.9	8	46.8	304
07 May 2006, 12:30					
07 May 2006, 12:40	52.3	9.7	8.5	48.4	306
07 May 2006, 12:50	46.5	9.6	9.3	48.2	306
07 May 2006, 13:00	47.1	9.3	9.2	47.6	306
07 May 2006, 13:10	51.9	9.8	8.9	48.6	308
07 May 2006, 13:20	52.1	10	9.3	49	309
07 May 2006, 13:30	49.4	10	9.8	49	309
07 May 2006, 13:40	63.1	9.6	9.9	48.8	309
	61	9.5	9.7	48.4	305
07 May 2006, 13:50					
07 May 2006, 14:00	60.4	10.4	9.6	49.8	305
07 May 2006, 14:10	56.9	10.3	9.8	49.6	308
07 May 2006, 14:20	56.5	9.9	9.4	48.8	309
07 May 2006, 14:30	65	9.4	9	47.8	307
07 May 2006, 14:40	60.4	8.9	8.7	46.8	304
07 May 2006, 14:50	56.7	8.9	8.6	46.8	304
07 May 2006, 15:00	52.4	9	8.9	47	305
07 May 2006, 15:10	51.1	9.3	8.2	47.6	305
-					
07 May 2006, 15:20	47.9	9	8.5	47	305
07 May 2006, 15:30	51	8.7	8.5	46.4	305
07 May 2006, 15:40	48.8	9.1	8.9	47.2	306
07 May 2006, 15:50	46.7	8.8	9	47	307
07 May 2006, 16:00	48.5	8.6	9	47	308
07 May 2006, 16:10	46.2	8.6	8.9	46.8	307
07 May 2006, 16:20	49.8	8.5	8.8	46.6	308
07 May 2006, 16:30	52.8	9.1	9.1	47.2	307
07 May 2006, 16:40	52.8	9.1	9.1	47.2	307
07 May 2006, 16:50	52	9.1	9.1	47.2	308
07 May 2006, 17:00	53.6	8.4	8.9	46.8	309
07 May 2006, 17:10	51.3	8.2	8.5	46	309
07 May 2006, 17:20	49.1	8.3	8.2	45.6	311
07 May 2006, 17:30	49.6	8.9	8.5	46.8	309
07 May 2006, 17:40	47.3	9.2	8.9	47.4	309
07 May 2006, 17:50	46.3	9	8.8	47	309
-					
07 May 2006, 18:00	46	8.5	8.2	46	309
07 May 2006, 18:10	43.8	8.5	8.1	46	308
07 May 2006, 18:20	46.5	8.4	8	45.8	308
07 May 2006, 18:30	48.2	8.3	8	45.6	308
07 May 2006, 18:40	46.3	8.2	7.9	45.4	309

May 2006, 19:00 May 2006, 19:10 May 2006, 19:10 May 2006, 19:20 May 2006, 19:30 May 2006, 19:50 May 2006, 20:00 May 2006, 20:10 May 2006, 20:20 May 2006, 20:30 May 2006, 20:40 May 2006, 20:50 May 2006, 21:00 May 2006, 21:00 May 2006, 21:20 May 2006, 21:20 May 2006, 21:30 May 2006, 21:40 May 2006, 21:50 May 2006, 21:50 May 2006, 22:00 May 2006, 22:10 May 2006, 22:20 May 2006, 22:20 May 2006, 22:20	46.2 45.1 43.7 44 43.4 43.4 43.5 43.4 44 45.9 46.4 46.5 46 46.1 43.7 43.6	8.1 7.5 7.5 7.7 7.4 7.2 7 6.6 6 6.6 6.7 6.6 6.4 5.9	7.4 7.7 7.7 7.8 7.8 7.6 7.5 7.5 7.2 7.3 7.3 7.5 7.1	45.2 44.4 44.4 44.6 44.6 44.2 44 44 43.4 43.6 43.6	310 317 318 320 321 323 325 327 332 326 326 326
May 2006, 19:10 May 2006, 19:20 May 2006, 19:30 May 2006, 19:40 May 2006, 19:50 May 2006, 20:00 May 2006, 20:10 May 2006, 20:20 May 2006, 20:30 May 2006, 20:40 May 2006, 20:50 May 2006, 21:00 May 2006, 21:10 May 2006, 21:20 May 2006, 21:30 May 2006, 21:40 May 2006, 21:50 May 2006, 21:50 May 2006, 22:00 May 2006, 22:10	45.1 43.7 44 43.4 43.5 43.4 43.4 44 45.9 46.4 46.5 46 46.1 43.7	7.5 7.5 7.7 7.4 7.2 7 6.6 6 6.6 6.7 6.6 6.4 5.9 6	7.7 7.7 7.8 7.8 7.6 7.5 7.5 7.2 7.3 7.3 7.5	44.4 44.4 44.6 44.6 44.2 44 44 43.4 43.6 43.6	317 318 320 321 323 325 327 332 326 326
May 2006, 19:20 May 2006, 19:30 May 2006, 19:40 May 2006, 19:50 May 2006, 20:00 May 2006, 20:10 May 2006, 20:20 May 2006, 20:30 May 2006, 20:40 May 2006, 20:50 May 2006, 21:00 May 2006, 21:10 May 2006, 21:20 May 2006, 21:30 May 2006, 21:40 May 2006, 21:50 May 2006, 21:50 May 2006, 22:00 May 2006, 22:10	43.7 44 43.4 43.5 43.4 43.4 44 45.9 46.4 46.5 46 46.1 43.7	7.5 7.7 7.4 7.2 7 6.6 6 6.6 6.7 6.6 6.4 5.9 6	7.7 7.8 7.8 7.6 7.5 7.5 7.2 7.3 7.3 7.5	44.4 44.6 44.6 44.2 44 44 43.4 43.6 43.6	318 320 321 323 325 327 332 326 326
May 2006, 19:30 May 2006, 19:40 May 2006, 19:50 May 2006, 20:00 May 2006, 20:10 May 2006, 20:20 May 2006, 20:30 May 2006, 20:40 May 2006, 20:50 May 2006, 21:00 May 2006, 21:10 May 2006, 21:20 May 2006, 21:30 May 2006, 21:40 May 2006, 21:50 May 2006, 22:00 May 2006, 22:10	44 43.4 43.5 43.4 43.4 44 45.9 46.4 46.5 46 46.1 43.7	7.7 7.4 7.2 7 6.6 6 6.6 6.7 6.6 6.4 5.9 6	7.7 7.8 7.8 7.6 7.5 7.5 7.2 7.3 7.3 7.5	44.4 44.6 44.6 44.2 44 44 43.4 43.6 43.6	320 321 323 325 327 332 326 326
May 2006, 19:40 May 2006, 19:50 May 2006, 20:00 May 2006, 20:10 May 2006, 20:20 May 2006, 20:30 May 2006, 20:40 May 2006, 20:50 May 2006, 21:00 May 2006, 21:10 May 2006, 21:20 May 2006, 21:30 May 2006, 21:40 May 2006, 21:50 May 2006, 22:00 May 2006, 22:10	43.4 43.4 43.5 43.4 43.4 44 45.9 46.4 46.5 46	7.4 7.2 7 6.6 6 6.6 6.7 6.6 6.4 5.9 6	7.8 7.8 7.6 7.5 7.5 7.2 7.3 7.3	44.6 44.2 44 44 43.4 43.6 43.6	321 323 325 327 332 326 326
May 2006, 19:50 May 2006, 20:00 May 2006, 20:10 May 2006, 20:20 May 2006, 20:30 May 2006, 20:40 May 2006, 20:50 May 2006, 21:00 May 2006, 21:10 May 2006, 21:20 May 2006, 21:30 May 2006, 21:40 May 2006, 21:50 May 2006, 22:00 May 2006, 22:10	43.4 43.5 43.4 43.4 44 45.9 46.4 46.5 46 46.1	7.2 7 6.6 6 6.6 6.7 6.6 6.4 5.9 6	7.8 7.6 7.5 7.5 7.2 7.3 7.3	44.6 44.2 44 44 43.4 43.6 43.6	323 325 327 332 326 326
May 2006, 20:00 May 2006, 20:10 May 2006, 20:20 May 2006, 20:30 May 2006, 20:40 May 2006, 20:50 May 2006, 21:00 May 2006, 21:10 May 2006, 21:20 May 2006, 21:30 May 2006, 21:40 May 2006, 21:50 May 2006, 22:00 May 2006, 22:10	43.5 43.4 43.4 44 45.9 46.4 46.5 46 46.1 43.7	7 6.6 6 6.6 6.7 6.6 6.4 5.9 6	7.6 7.5 7.5 7.2 7.3 7.3 7.5	44.2 44 44 43.4 43.6 43.6	325 327 332 326 326
May 2006, 20:10 May 2006, 20:20 May 2006, 20:30 May 2006, 20:40 May 2006, 20:50 May 2006, 21:00 May 2006, 21:10 May 2006, 21:20 May 2006, 21:30 May 2006, 21:40 May 2006, 21:50 May 2006, 22:00 May 2006, 22:10	43.4 43.4 44 45.9 46.4 46.5 46 46.1 43.7	6.6 6.6 6.7 6.6 6.4 5.9 6	7.5 7.5 7.2 7.3 7.3 7.5	44 44 43.4 43.6 43.6	327 332 326 326
May 2006, 20:20 May 2006, 20:30 May 2006, 20:40 May 2006, 20:50 May 2006, 21:00 May 2006, 21:10 May 2006, 21:20 May 2006, 21:30 May 2006, 21:40 May 2006, 21:50 May 2006, 22:00 May 2006, 22:10	43.4 44 45.9 46.4 46.5 46 46.1 43.7	6 6.6 6.7 6.6 6.4 5.9 6	7.5 7.2 7.3 7.3 7.5	44 43.4 43.6 43.6	332 326 326
May 2006, 20:30 May 2006, 20:40 May 2006, 20:50 May 2006, 21:00 May 2006, 21:10 May 2006, 21:20 May 2006, 21:30 May 2006, 21:40 May 2006, 21:50 May 2006, 22:00 May 2006, 22:10	44 45.9 46.4 46.5 46 46.1 43.7	6.6 6.7 6.6 6.4 5.9 6	7.2 7.3 7.3 7.5	43.4 43.6 43.6	326 326
May 2006, 20:40 May 2006, 20:50 May 2006, 21:00 May 2006, 21:10 May 2006, 21:20 May 2006, 21:30 May 2006, 21:40 May 2006, 21:50 May 2006, 22:00 May 2006, 22:10	45.9 46.4 46.5 46 46.1 43.7	6.7 6.6 6.4 5.9 6	7.3 7.3 7.5	43.6 43.6	326
May 2006, 20:50 May 2006, 21:00 May 2006, 21:10 May 2006, 21:20 May 2006, 21:30 May 2006, 21:40 May 2006, 21:50 May 2006, 22:00 May 2006, 22:10	46.4 46.5 46 46.1 43.7	6.6 6.4 5.9 6	7.3 7.5	43.6	
May 2006, 21:00 May 2006, 21:10 May 2006, 21:20 May 2006, 21:30 May 2006, 21:40 May 2006, 21:50 May 2006, 22:00 May 2006, 22:10	46.5 46 46.1 43.7	6.4 5.9 6	7.5		320
May 2006, 21:10 May 2006, 21:20 May 2006, 21:30 May 2006, 21:40 May 2006, 21:50 May 2006, 22:00 May 2006, 22:10	46 46.1 43.7	5.9 6			
May 2006, 21:20 May 2006, 21:30 May 2006, 21:40 May 2006, 21:50 May 2006, 22:00 May 2006, 22:10	46.1 43.7	6	7.1	44	000
May 2006, 21:30 May 2006, 21:40 May 2006, 21:50 May 2006, 22:00 May 2006, 22:10	43.7			43.2	338
May 2006, 21:40 May 2006, 21:50 May 2006, 22:00 May 2006, 22:10			6.9	42.8	338
7 May 2006, 21:50 7 May 2006, 22:00 7 May 2006, 22:10	43.6	5.7	6.9	42.8	341
May 2006, 22:00 May 2006, 22:10		5	6.8	42.6	344
' May 2006, 22:10	43	4.7	7	43	354
	43.9	5.5	6.3	41.6	359
May 2006, 22:20	44.3	5.1	5.9	40	0
, , , , , , , , , , , , , , , , , , , ,	43.4	5.8	6	41	15
May 2006, 22:30	44	6.4	6.4	41.8	12
May 2006, 22:40	43.8	5.1	6.4	41.8	11
May 2006, 22:50	43.6	4.6	5.8	40	14
' May 2006, 23:00	43.5	5.2	6.3	41.6	12
' May 2006, 23:10	40.8	3.1	5.7	40	25
' May 2006, 23:20	40.6	2.5	4.9	40	26
' May 2006, 23:30	42.8	2.1	5	40	24
' May 2006, 23:40	42.7	3.1	4.4	40	39
					37
					38
-					39
-					30
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-					22
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-					18
•					21
-					18
					18
8 May 2006, 2:30	44.3	4.3	7.6	44.2	20
8 May 2006, 2:40	44.5	4.3	7.3	43.6	22
8 May 2006, 2:50	44.6				25
8 May 2006, 3:00	44.5	4.5	7	43	26
8 May 2006, 3:10	44.4	4.7	7.3	43.6	24
8 May 2006, 3:20	44.3	5	7.4	43.8	28
8 May 2006, 3:30	44.7	5.1	7.4	43.8	38
8 May 2006, 3:40	45.9				39
•					40
-					40
-					40
					40
					36
8 May 2006 4:30	46.3	5.7	0.0		
888888888888888888888888888888888888888	May 2006, 2:50 May 2006, 3:00 May 2006, 3:10 May 2006, 3:20 May 2006, 3:30	May 2006, 0:00 44 May 2006, 0:10 43.8 May 2006, 0:20 44.3 May 2006, 0:30 44.3 May 2006, 0:50 44.5 May 2006, 1:00 44.4 May 2006, 1:10 45 May 2006, 1:20 44.6 May 2006, 1:30 44.2 May 2006, 1:40 44 May 2006, 1:50 44.6 May 2006, 2:00 44.7 May 2006, 2:10 44.5 May 2006, 2:20 44.2 May 2006, 2:20 44.2 May 2006, 2:30 44.3 May 2006, 2:40 44.5 May 2006, 3:00 44.6 May 2006, 3:00 46.1 May 2006, 3:00 46.1 May 2006, 4:00 46.4 May 2006, 4:10 46.1 May 2006, 4:20 46.3	May 2006, 0:00       44       3.3         May 2006, 0:10       43.8       3.9         May 2006, 0:20       44.3       4.3         May 2006, 0:30       44.3       4.7         May 2006, 0:50       44.5       4.6         May 2006, 1:00       44.4       5         May 2006, 1:10       45       5.1         May 2006, 1:20       44.6       5.5         May 2006, 1:30       44.2       5.4         May 2006, 1:40       44       4.9         May 2006, 1:50       44.6       4.5         May 2006, 2:00       44.7       4.6         May 2006, 2:10       44.5       5.2         May 2006, 2:20       44.2       5.1         May 2006, 2:30       44.3       4.3         May 2006, 2:30       44.5       4.3         May 2006, 2:40       44.5       4.5         May 2006, 3:00       44.5       4.5         May 2006, 3:00       44.5       4.5         May 2006, 3:30       44.7       5.1         May 2006, 3:30       44.7       5.1         May 2006, 3:40       45.9       5.6         May 2006, 4:00       46.4       7         M	May 2006, 0:00       44       3.3       4.8         May 2006, 0:10       43.8       3.9       4.8         May 2006, 0:20       44.3       4.3       6.3         May 2006, 0:30       44.3       4.3       5.8         May 2006, 0:40       44.3       4.7       6.4         May 2006, 0:50       44.5       4.6       6.6         May 2006, 1:00       44.4       5       6.5         May 2006, 1:10       45       5.1       6.7         May 2006, 1:20       44.6       5.5       7         May 2006, 1:30       44.2       5.4       6.9         May 2006, 1:30       44.2       5.4       6.9         May 2006, 1:40       44       4.9       7.3         May 2006, 2:00       44.7       4.6       6.9         May 2006, 2:10       44.5       5.2       6.9         May 2006, 2:20       44.2       5.1       7.6         May 2006, 2:30       44.3       4.3       7.3         May 2006, 2:40       44.5       4.3       7.3         May 2006, 3:10       44.4       4.7       7.3         May 2006, 3:20       44.3       5       7.4	May 2006, 0:00       44       3.3       4.8       40         May 2006, 0:10       43.8       3.9       4.8       40         May 2006, 0:20       44.3       4.3       6.3       41.6         May 2006, 0:30       44.3       4.3       5.8       40         May 2006, 0:40       44.3       4.7       6.4       41.8         May 2006, 0:50       44.5       4.6       6.6       42.2         May 2006, 1:00       44.4       5       6.5       42         May 2006, 1:00       44.4       5       6.5       42         May 2006, 1:00       44.6       5.5       7       43         May 2006, 1:30       44.2       5.4       6.9       42.8         May 2006, 1:30       44.2       5.4       6.9       42.8         May 2006, 1:40       44       4.9       7.3       43.4         May 2006, 2:00       44.7       4.6       6.9       42.8         May 2006, 2:10       44.5       5.2       6.9       42.8         May 2006, 2:30       44.3       4.3       7.6       44.2         May 2006, 2:30       44.5       4.5       7       43         May 2006,

Date and Time	10 Minute Average (Leq) Sound Level [dBA]	Wind Speed from Meterological Tower [m/s]	Wind Speed at WTG 14 [m/s]	Sound Level Criteria under MOE NPC-232 + Interpretation	Wind Direction from Meterological Towe [Degrees]
08 May 2006, 4:50	46.5	5.9	8.7	46.4	40
08 May 2006, 5:00	46.8	5.7	8.4	45.8	41
08 May 2006, 5:10	47.1	5.5	8.4	45.8	45
08 May 2006, 5:20	48.4	5.5	8.2	45.4	49
08 May 2006, 5:30	47.1	5.7	8.3	45.6	53
08 May 2006, 5:40	46.8	5.7	8.1	45.2	56
08 May 2006, 5:50	46.7	5.6	8	45	61
08 May 2006, 6:00	47.1	6.2	8	45	62
08 May 2006, 6:10	46.8	6.5	8.2	45.4	68
08 May 2006, 6:20	47.9	6.7	8.4	45.8	69
08 May 2006, 6:30	46.3	7.1	8.6	46.2	69
08 May 2006, 6:40	46.3	7.1	8.6	46.2	70
08 May 2006, 6:50	46	6.3	8.4	45.8	72
08 May 2006, 7:00	45.7	6.3	8.3	45.6	70
08 May 2006, 7:10	45.1	6.6	8.1	45.2	75
08 May 2006, 7:20	45.1	6.9	7.8	44.6	75
08 May 2006, 7:30	45	6.6	7.0	43	77
08 May 2006, 7:40	44.8	5.6	6.4	41.8	81
•	44.5		6.2	41.4	81
08 May 2006, 7:50		5.4			
08 May 2006, 8:00	44.2	4.5	6.1	41.2	83
08 May 2006, 8:10	43.7	3.7	6.1	41.2	84
08 May 2006, 8:20	45.4	3.1	6.5	42	90
08 May 2006, 8:30	45.2	3.5	6	41	85
08 May 2006, 8:40	44.7	3.6	6.3	41.6	81
08 May 2006, 8:50	47.1	3.9	6.9	42.8	83
08 May 2006, 9:00	47.7	3.7	7.3	43.6	82
08 May 2006, 9:10	47.5	4.2	6.7	42.4	75
08 May 2006, 9:20	52.9	4.4	7.1	43.2	83
08 May 2006, 9:30	50.6	4.2	7	43	78
08 May 2006, 9:40	57.3	4.2	6.9	42.8	60
08 May 2006, 9:50	58.7	3.1	7.2	43.4	62
08 May 2006, 10:00	54.9	3.9	6.5	42	58
08 May 2006, 10:10	42.9	3.8	6.1	41.2	61
08 May 2006, 10:20	42.6	3.4	6	41	52
08 May 2006, 10:30	42.5	4.7	5.3	40	60
08 May 2006, 10:40	57.4	4	5.6	40	53
08 May 2006, 10:50	43.5	3.9	5	40	54
08 May 2006, 11:00	54.5	4	5.1	40	58
08 May 2006, 11:10	68.3	4.1	4.9	40	74
08 May 2006, 11:10	75.8	4.1	5.3	40	34
	68.4	4.2	5.5 5	40	30
08 May 2006, 11:30					
08 May 2006, 11:40	60.5	4.8	4.7	40	4
08 May 2006, 11:50	56.9	4.3	5.5	40	343
08 May 2006, 12:00	42.1	3.7	5.3	40	330
08 May 2006, 12:10	42.5	3.1	5.2	40	342
08 May 2006, 12:20	42.3	2.3	5.6	40	340
08 May 2006, 12:30	42.3	3.5	5.4	40	343
08 May 2006, 12:40	42.7	4.6	5.5	40	266
08 May 2006, 12:50	41.7	4.4	5	40	229
08 May 2006, 13:00	42.6	4.1	5.1	40	229
08 May 2006, 13:10	40.6	4.7	5.1	40	237
08 May 2006, 13:20	41.3	4.8	5.2	40	245
08 May 2006, 13:30	43	5.2	5.3	40	256
08 May 2006, 13:40	48.4	6	4.1	41	257
08 May 2006, 13:50	42.9	6.5	5.8	42	257
08 May 2006, 14:00	44	6.2	5.5	41.4	256
08 May 2006, 14:10	44.7	6	4.9	41	260
08 May 2006, 14:20	46.6	6.5	5.4	42	256
08 May 2006, 14:30	10.0	0.0	5.3	42.6	251

Date and Time	10 Minute Average (Leq) Sound Level [dBA]	Wind Speed from Meterological Tower [m/s]	Wind Speed at WTG 14 [m/s]	Sound Level Criteria under MOE NPC-232 + Interpretation	Wind Direction from Meterological Tower [Degrees]
08 May 2006, 14:40	44.7	6.5	5.5	42	249
08 May 2006, 14:50	45.1	7	5.4	43	250
08 May 2006, 15:00	45.6	7.4	5.4	43.8	253
08 May 2006, 15:10	44.8	7.8	5.9	44.6	250
08 May 2006, 15:20	44.5	7.8	6	44.6	246
08 May 2006, 15:30	46.3	7.8	6.6	44.6	243
08 May 2006, 15:40	44.6	7.6	6.9	44.2	244
08 May 2006, 15:50	44.3	7.5	6.6	44	247
08 May 2006, 16:00	42.9	7.2	6	43.4	244
08 May 2006, 16:10	42.6	7.4	6.3	43.8	245
08 May 2006, 16:20	43.9	6.5	6.4	42	242
08 May 2006, 16:30	42.8	6.3	5.7	41.6	233
08 May 2006, 16:40	42.8	6.8	5.2	42.6	226
08 May 2006, 16:50	42.8	6.5	5.8	42.0	225
	43	6.4	5.0 5.1	41.8	228
08 May 2006, 17:00	43 41.9	5.7	5.3	40	223
08 May 2006, 17:10					
08 May 2006, 17:20	41.2	5.6	5.1	40	206
08 May 2006, 17:30	40.9	4.6	4.7	40	206
08 May 2006, 17:40	42.9	4.7	4.7	40	208
08 May 2006, 17:50	42.4	4.9	4.4	40	214
08 May 2006, 18:00	45.8	5.5	4.6	40	214
08 May 2006, 18:10	42.1	4.8	4.7	40	210
08 May 2006, 18:20	41	5.1	4.6	40	194
08 May 2006, 18:30	56.8	4.3	4.5	40	186
08 May 2006, 18:40	40.1	3.4	4.5	40	186
08 May 2006, 18:50	34.8	3.7	4.2	40	186
08 May 2006, 19:00	35.1	3	4.2	40	150
08 May 2006, 19:10	37.7	2.4	3.8	40	133
08 May 2006, 19:20	38.4	1.1	3.8	40	122
08 May 2006, 19:30	42.9	0.4	3.3	40	116
08 May 2006, 19:40	43.3	1.3	4.1	40	109
08 May 2006, 19:50	44.5	3.4	4.4	40	100
08 May 2006, 20:00	45.1	3.2	5.5	40	106
08 May 2006, 20:10	46.7	3.3	5.8	40	92
08 May 2006, 20:20	46.7	3.5	6.9	42.8	91
08 May 2006, 20:30	45.4	5.1	6.4	41.8	87
08 May 2006, 20:40	46.2	3.6	6.3	41.6	89
08 May 2006, 20:50	46.5	4.2	7	43	88
08 May 2006, 21:00	45.9	3.7	5.9	40	88
08 May 2006, 21:10	45.3	3.6		40	82
08 May 2006, 21:20	46.3	4.3		40	65
08 May 2006, 21:30	46.6	4.1		40	79
08 May 2006, 21:40	45.7	4.2		40	78
08 May 2006, 21:50	45.7	5		40	73
08 May 2006, 22:00	45.6	4.1		40	73
08 May 2006, 22:10	45.1	4.1		40	84
08 May 2006, 22:20	45.9	3.5		40	78
08 May 2006, 22:30	45.6	3.3		40	83
08 May 2006, 22:40	45.7	3.9		40	83
08 May 2006, 22:50	45.7	4.1		40	85
08 May 2006, 23:00	46.3	4.6		40	84
08 May 2006, 23:10	45.4	4.1		40	87
08 May 2006, 23:20	45.3	4.7		40	84
08 May 2006, 23:30	46.1	4.2		40	84
08 May 2006, 23:40	46.7	4.1		40	89
08 May 2006, 23:50	46.2	5		40	89
					89
					86
					82
09 May 2006, 0:00 09 May 2006, 0:10 09 May 2006, 0:20	45.8 45.8 45.8	5.9 5.3 5		40 40 40	

09 May 2006, 0:30 09 May 2006, 0:40 09 May 2006, 0:50 09 May 2006, 1:00 09 May 2006, 1:10 09 May 2006, 1:20 09 May 2006, 1:30 09 May 2006, 1:40 09 May 2006, 1:50 09 May 2006, 2:00 09 May 2006, 2:10 09 May 2006, 2:20 09 May 2006, 2:30 09 May 2006, 2:40 09 May 2006, 2:50 09 May 2006, 3:00 09 May 2006, 3:10 09 May 2006, 3:10 09 May 2006, 3:20	45.7 46.1 46.8 47.3 46.5 46.6 47.4 46.7 47 47.4 48.2 46.7	5.1 4.9 5 5.2 5.4 5.3 4.3 5 6.2 6.4	40 40 40 40 40 40 40	83 82 84 86 89
09 May 2006, 0:50 09 May 2006, 1:00 09 May 2006, 1:10 09 May 2006, 1:20 09 May 2006, 1:30 09 May 2006, 1:40 09 May 2006, 1:50 09 May 2006, 2:00 09 May 2006, 2:10 09 May 2006, 2:10 09 May 2006, 2:20 09 May 2006, 2:30 09 May 2006, 2:40 09 May 2006, 2:50 09 May 2006, 3:00 09 May 2006, 3:10 09 May 2006, 3:20	46.8 47.3 46.5 46.6 47.4 46.7 47 47.4 48.2	5 5.2 5.4 5.3 4.3 5 6.2	40 40 40 40	84 86 89
09 May 2006, 1:00 09 May 2006, 1:10 09 May 2006, 1:20 09 May 2006, 1:30 09 May 2006, 1:40 09 May 2006, 1:50 09 May 2006, 2:00 09 May 2006, 2:10 09 May 2006, 2:20 09 May 2006, 2:20 09 May 2006, 2:30 09 May 2006, 2:40 09 May 2006, 2:50 09 May 2006, 3:00 09 May 2006, 3:10 09 May 2006, 3:20	47.3 46.5 46.6 47.4 46.7 47 47.4 48.2	5.2 5.4 5.3 4.3 5 6.2	40 40 40	86 89
09 May 2006, 1:10 09 May 2006, 1:20 09 May 2006, 1:30 09 May 2006, 1:40 09 May 2006, 1:50 09 May 2006, 2:00 09 May 2006, 2:10 09 May 2006, 2:20 09 May 2006, 2:30 09 May 2006, 2:40 09 May 2006, 2:50 09 May 2006, 3:00 09 May 2006, 3:10 09 May 2006, 3:20	46.5 46.6 47.4 46.7 47 47.4 48.2	5.4 5.3 4.3 5 6.2	40 40	89
09 May 2006, 1:20 09 May 2006, 1:30 09 May 2006, 1:40 09 May 2006, 1:50 09 May 2006, 2:00 09 May 2006, 2:10 09 May 2006, 2:20 09 May 2006, 2:30 09 May 2006, 2:40 09 May 2006, 2:50 09 May 2006, 3:00 09 May 2006, 3:10 09 May 2006, 3:20	46.6 47.4 46.7 47 47.4 48.2	5.3 4.3 5 6.2	40	
09 May 2006, 1:30 09 May 2006, 1:40 09 May 2006, 1:50 09 May 2006, 2:00 09 May 2006, 2:10 09 May 2006, 2:20 09 May 2006, 2:30 09 May 2006, 2:40 09 May 2006, 2:50 09 May 2006, 3:00 09 May 2006, 3:10 09 May 2006, 3:20	47.4 46.7 47 47.4 48.2	4.3 5 6.2		97
09 May 2006, 1:40 09 May 2006, 1:50 09 May 2006, 2:00 09 May 2006, 2:10 09 May 2006, 2:20 09 May 2006, 2:30 09 May 2006, 2:40 09 May 2006, 2:50 09 May 2006, 3:00 09 May 2006, 3:10 09 May 2006, 3:20	46.7 47 47.4 48.2	5 6.2	40	87
09 May 2006, 1:50 09 May 2006, 2:00 09 May 2006, 2:10 09 May 2006, 2:20 09 May 2006, 2:30 09 May 2006, 2:40 09 May 2006, 2:50 09 May 2006, 3:00 09 May 2006, 3:10 09 May 2006, 3:20	47 47.4 48.2	6.2	70	87
09 May 2006, 2:00 09 May 2006, 2:10 09 May 2006, 2:20 09 May 2006, 2:30 09 May 2006, 2:40 09 May 2006, 2:50 09 May 2006, 3:00 09 May 2006, 3:10 09 May 2006, 3:20	47.4 48.2		40	87
09 May 2006, 2:10 09 May 2006, 2:20 09 May 2006, 2:30 09 May 2006, 2:40 09 May 2006, 2:50 09 May 2006, 3:00 09 May 2006, 3:10 09 May 2006, 3:20	48.2	6.4	41.4	84
09 May 2006, 2:20 09 May 2006, 2:30 09 May 2006, 2:40 09 May 2006, 2:50 09 May 2006, 3:00 09 May 2006, 3:10 09 May 2006, 3:20		0.4	41.8	79
09 May 2006, 2:30 09 May 2006, 2:40 09 May 2006, 2:50 09 May 2006, 3:00 09 May 2006, 3:10 09 May 2006, 3:20	46 7	5.6	40	73
09 May 2006, 2:40 09 May 2006, 2:50 09 May 2006, 3:00 09 May 2006, 3:10 09 May 2006, 3:20	+0.1	6	41	85
09 May 2006, 2:50 09 May 2006, 3:00 09 May 2006, 3:10 09 May 2006, 3:20	46.8	6	41	88
09 May 2006, 3:00 09 May 2006, 3:10 09 May 2006, 3:20	47.9	5	40	91
09 May 2006, 3:10 09 May 2006, 3:20	48	5.1	40	89
09 May 2006, 3:20	51	5.2	40	88
09 May 2006, 3:20	51.1	5.7	40	88
•	49.8	6.1	41.2	84
09 May 2006, 3:30	49.3	5.8	40	81
09 May 2006, 3:40	49.8	4.9	40	80
09 May 2006, 3:50	48.5	5.3	40	85
09 May 2006, 4:00	48.1	5.5	40	82
09 May 2006, 4:10	48	5.2	40	80
09 May 2006, 4:20	48.3	5.4	40	83
09 May 2006, 4:30	48.3	4.9	40	88
09 May 2006, 4:40	48.1	5.8	40	83
09 May 2006, 4:50	49.8	5.5	40	86
09 May 2006, 5:00	51.2	6.1	41.2	86
09 May 2006, 5:10	52.2	5.5	40	91
09 May 2006, 5:20	56.1	6	41	93
09 May 2006, 5:30	56.3	6.8	42.6	93
09 May 2006, 5:40	56.2	7.8	44.6	96
09 May 2006, 5:50	56.3	9.4	47.8	95
09 May 2006, 6:00	57	10	49	97
09 May 2006, 6:10	59.6	10.3	49.6	97
09 May 2006, 6:20	59.3	9.9	48.8	97
09 May 2006, 6:30	58.6	9.8	48.6	99
09 May 2006, 6:40	59.9	8.7	46.4	98
09 May 2006, 6:50	59.1	10	49	100
09 May 2006, 7:00	59.3	10.3	49.6	98
09 May 2006, 7:10	61.4	10.3	49.6	99
09 May 2006, 7:10	60.7	11	51	97
09 May 2006, 7:30	61	10.2	49.4	95
09 May 2006, 7:40	61.3	10.6	50.2	95
09 May 2006, 7:50	60.1	10.8	50.6	96
· · · · · · · · · · · · · · · · · · ·				
09 May 2006, 8:00	61.1 60.5	10.4 11.2	49.8 51.4	96 98
09 May 2006, 8:10	60.5 61.8		51.4 50.2	98 98
09 May 2006, 8:20		10.6	50.2 53.8	
09 May 2006, 8:30	62.1 63.7	12.4 12.3	53.8 53.6	100
09 May 2006, 8:40		12.3	53.6	98
09 May 2006, 8:50	62.1	10.9	50.8	96 06
09 May 2006, 9:00	62 60.3	12	53 52.8	96 06
09 May 2006, 9:10	60.3	11.9	52.8 54	96 07
09 May 2006, 9:20	62.5	12.5	54	97
09 May 2006, 9:30	62.7	13.3	55.6	98
09 May 2006, 9:40	62.5	13.6	56.2	96
09 May 2006, 9:50	64.4	14.2	57.4	
09 May 2006, 10:00 09 May 2006, 10:10	64.5 64.6	11.6 13.5	52.2	

Date and Time	10 Minute Average (Leq) Sound Level [dBA]	Wind Speed from Meterological Tower [m/s]	Wind Speed at WTG 14 [m/s]	Sound Level Criteria under MOE NPC-232 + Interpretation	Wind Direction from Meterological Tower [Degrees]
09 May 2006, 10:20	64.3	14.3		57.6	
09 May 2006, 10:30	63.8	14.8		58.6	
09 May 2006, 10:40	62.9				
09 May 2006, 10:50	63.9				
09 May 2006, 11:00	63.8				
09 May 2006, 11:10	65.3				
09 May 2006, 11:20	64.2				
09 May 2006, 11:30	62.5				
09 May 2006, 11:40	66.1				