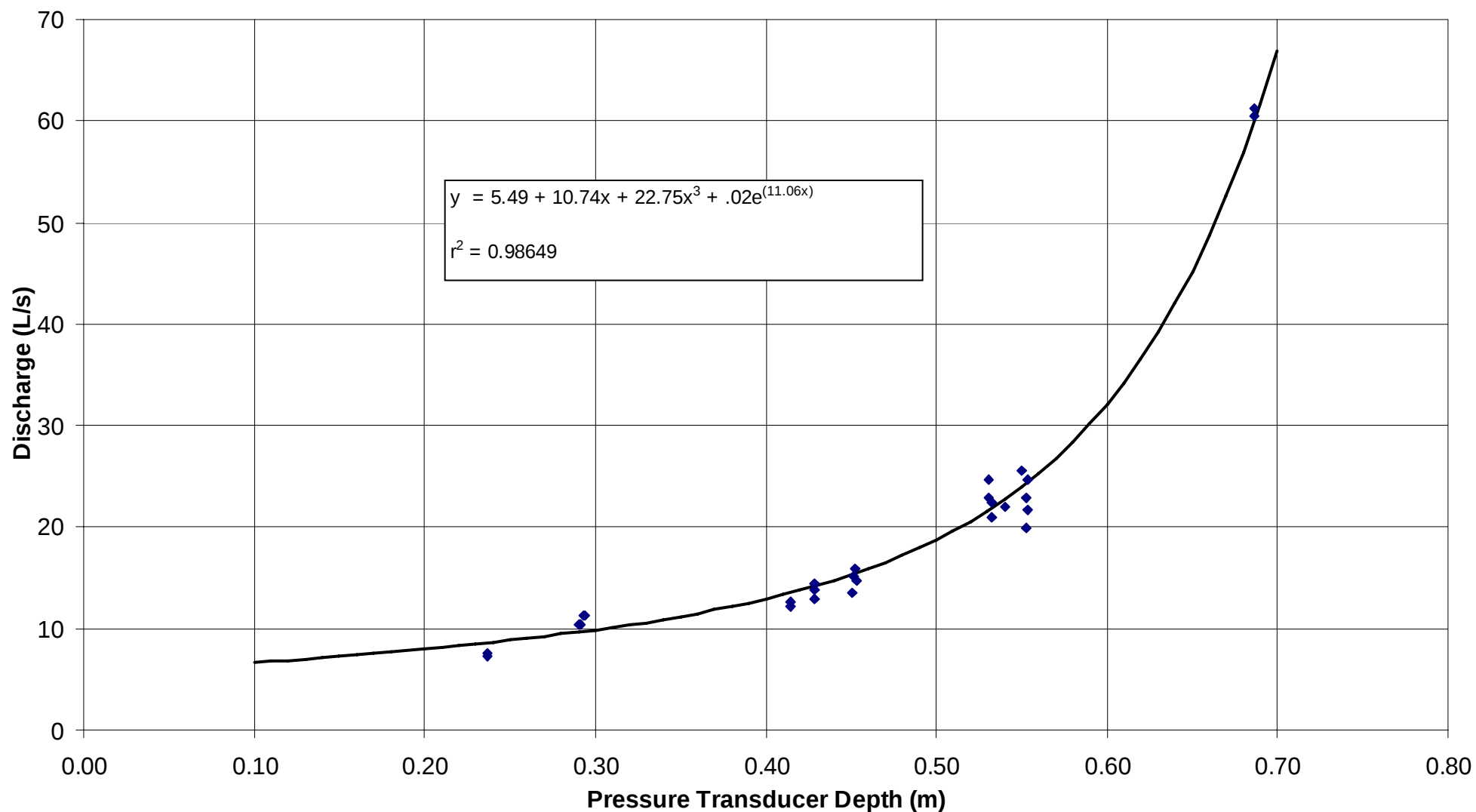




NOTES:

CLIENT



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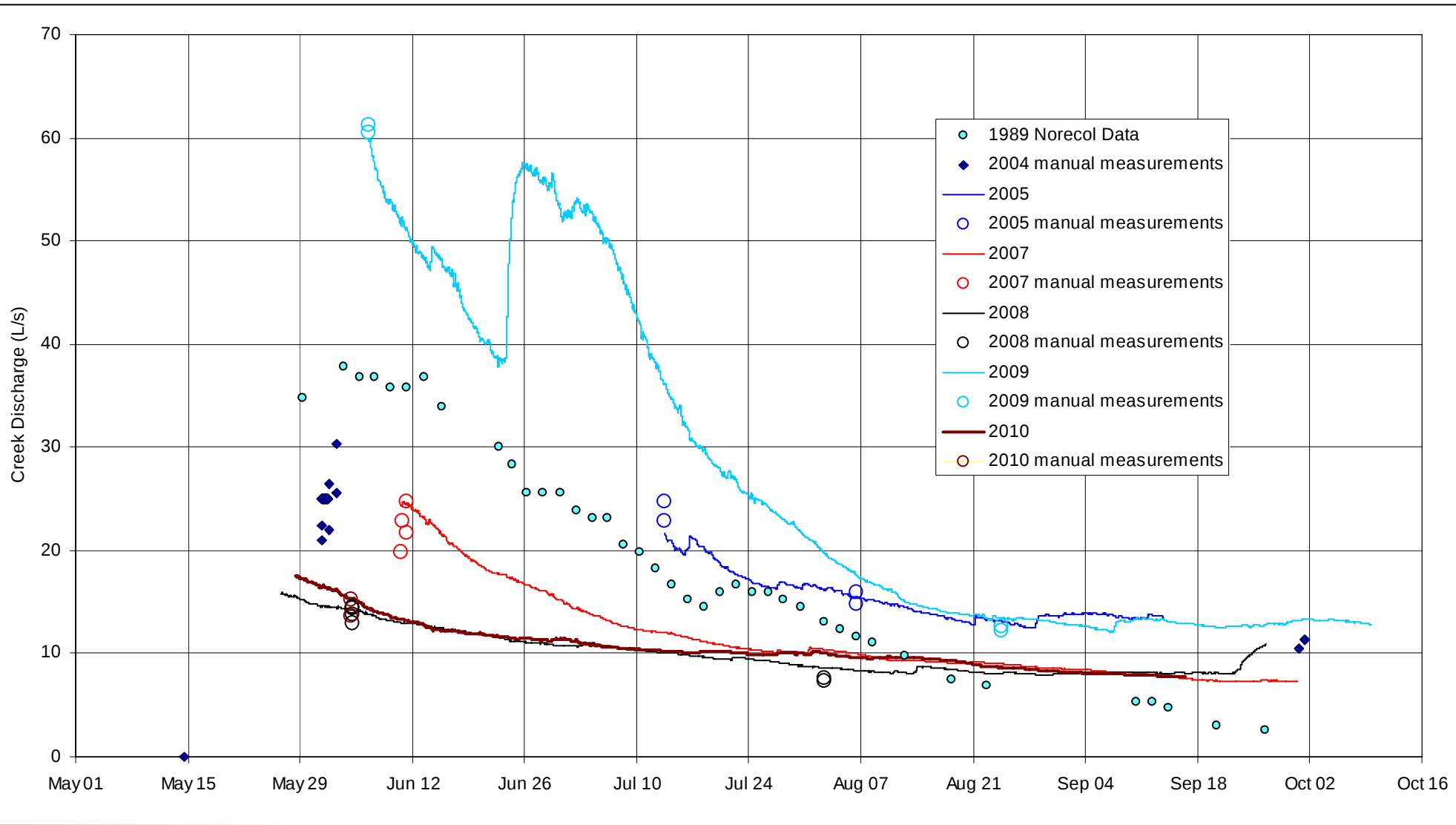
**YELLOWKNIFE GOLD PROJECT
2010 HYDROMETEOROLOGICAL REPORT**

**Nicholas Lake Outlet Stage Discharge
Relationship as of June 4, 2010**

PROJECT NO.	DWN	CKD	APVD	REV
Y22101070	RED	JAS	JAS	0
OFFICE	DATE			
EBA-VANC	January, 2010			

Figure 2.8

STATUS
ISSUED FOR USE

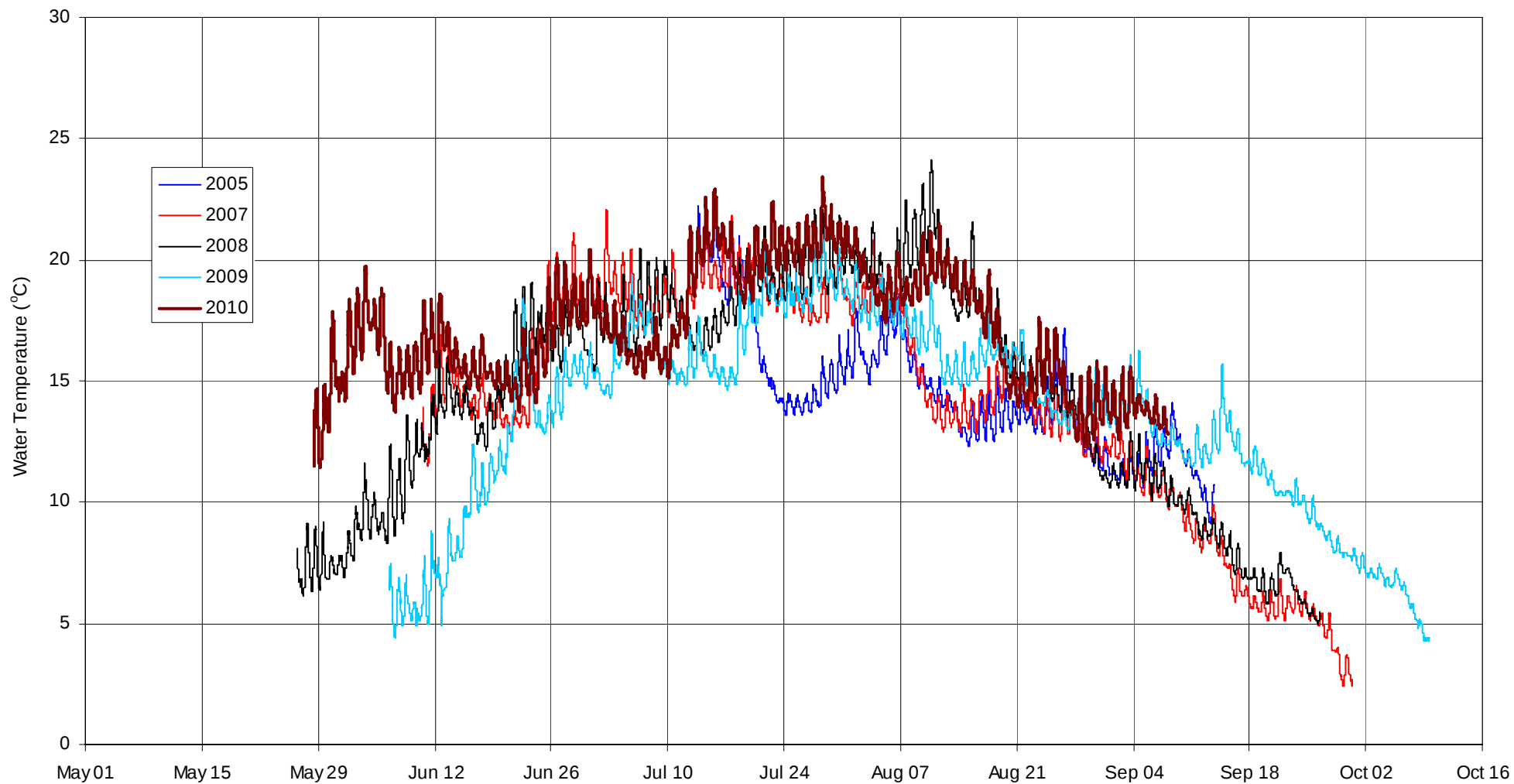


NOTES

		YELLOWKNIFE GOLD PROJECT 2010 HYDROMETEOROLOGICAL REPORT			
		Nicholas Lake Outlet Discharge Hydrographs 2005 to 2010			
PROJECT NO. Y22101070	DWN RED	CKD JAS	APVD JAS	REV 0	Figure 2.9
OFFICE EBA-VANC	DATE January, 2010				

STATUS
ISSUED FOR USE





NOTES

STATUS
ISSUED FOR USE

CLIENT

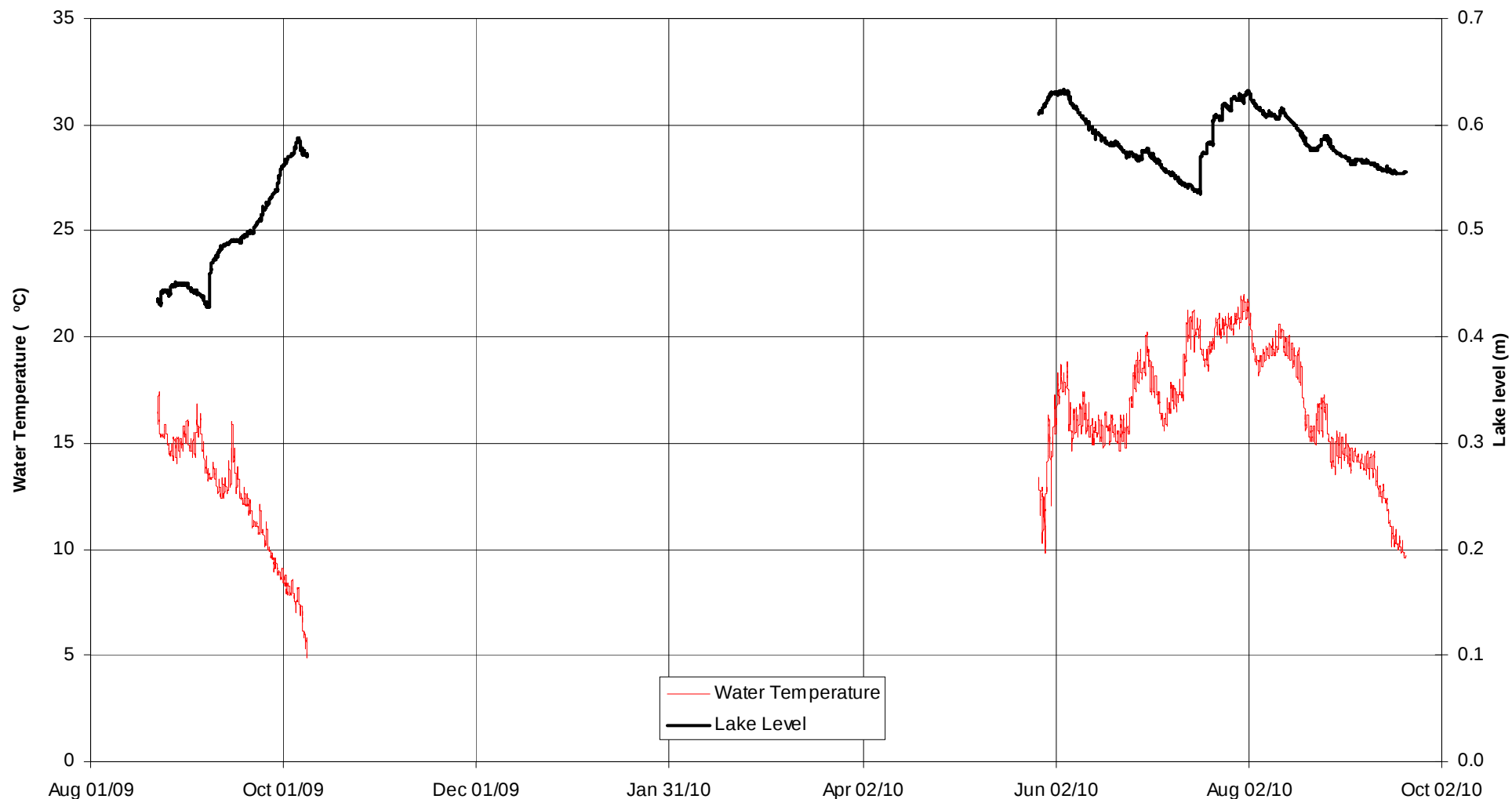


YELLOWKNIFE GOLD PROJECT 2010 HYDROMETEOROLOGICAL REPORT

Nicholas Lake Outlet Water Temperature Hydrographs 2005 to 2010

PROJECT NO.	DWN	CKD	APVD	REV
Y22101070	RED	JAS	JAS	0
OFFICE	DATE			
EBA-VANC	January, 2010			

Figure 2.10



NOTES

Water levels are referenced to the elevation of the pressure transducer and indicate the depth of water over the transducer.

Water temperatures are recorded at the elevation of the transducer and therefore measure the water temperature at the depth indicated by the lake level at the time of the temperature measurement.

STATUS
ISSUED FOR USE

CLIENT

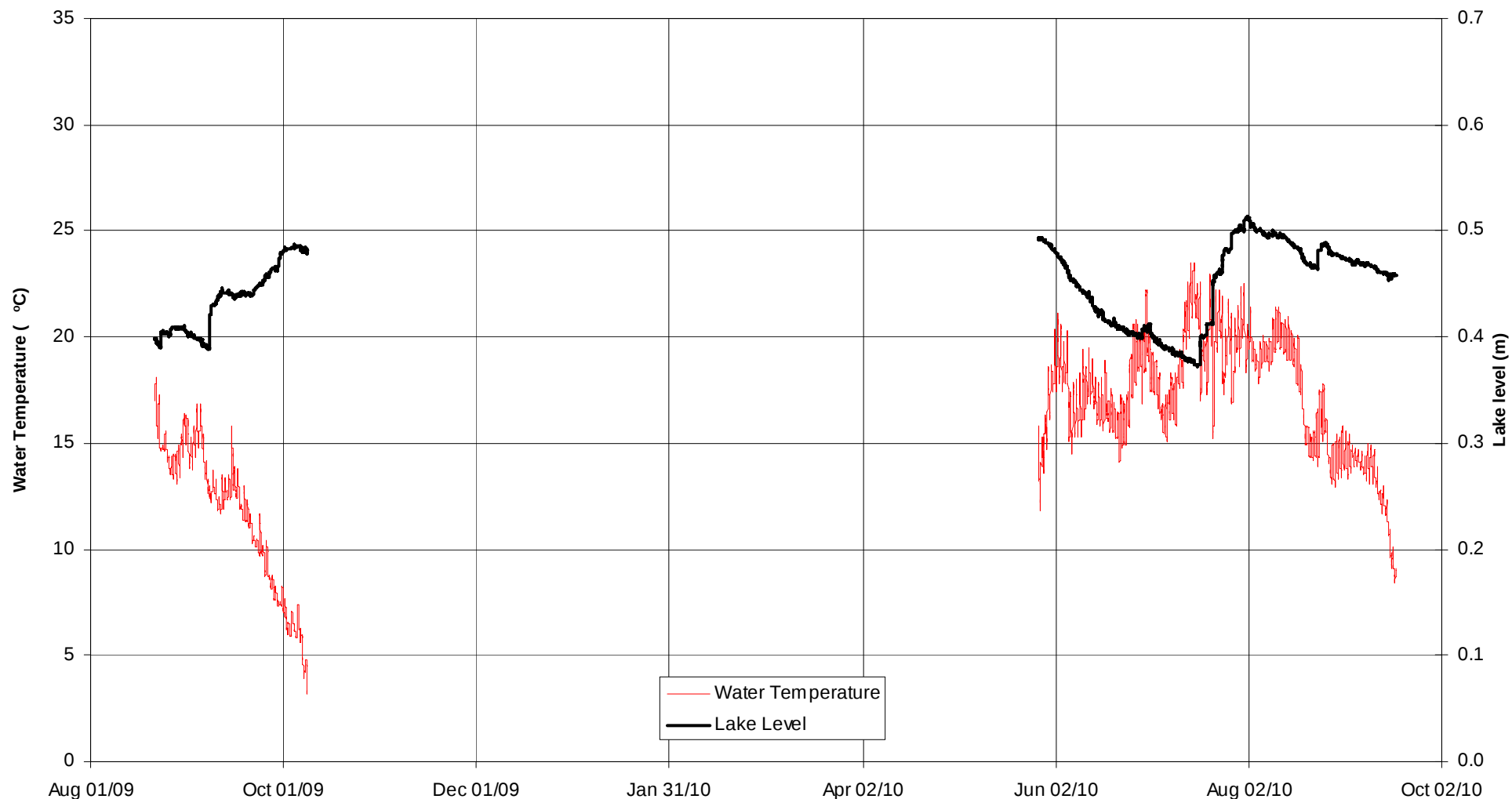


YELLOWKNIFE GOLD PROJECT 2010 HYDROMETEOROLOGICAL REPORT

Narrow Lake Levels and Water Temperatures 2009 - 2010

PROJECT NO.	DWN	CKD	APVD	REV
Y22101070	RED	JAS	JAS	0
OFFICE	DATE			
EBA-VANC	January, 2010			

Figure 2.11



NOTES

Water levels are referenced to the elevation of the pressure transducer and indicate the depth of water over the transducer.

Water temperatures are recorded at the elevation of the transducer and therefore measure the water temperature at the depth indicated by the lake level at the time of the temperature measurement.

STATUS
ISSUED FOR USE

CLIENT

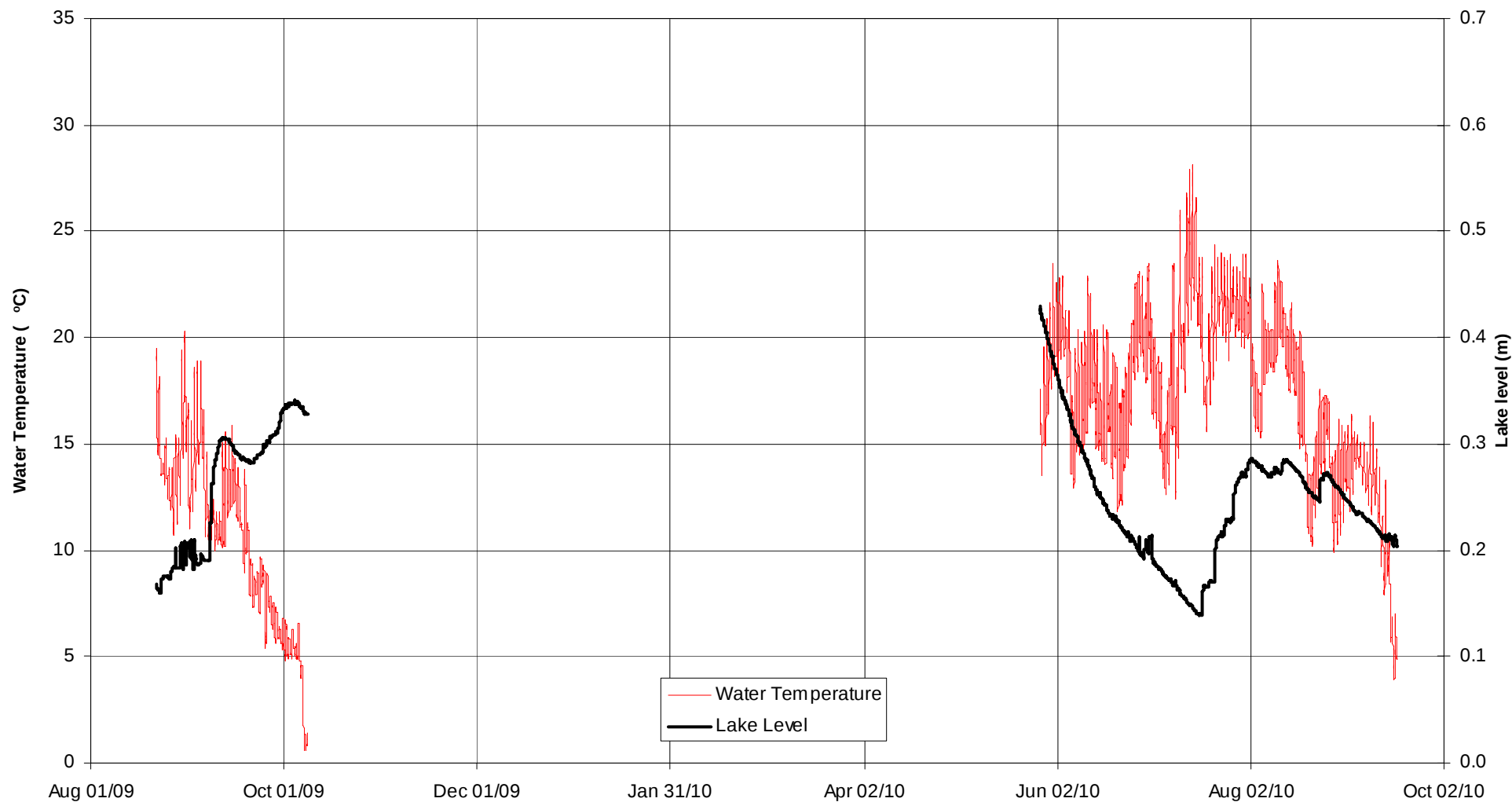


YELLOWKNIFE GOLD PROJECT 2010 HYDROMETEOROLOGICAL REPORT

Winter Lake Levels and Water Temperatures 2009 - 2010

PROJECT NO.	DWN	CKD	APVD	REV
Y22101070	RED	JAS	JAS	0
OFFICE	DATE			
EBA-VANC	January, 2010			

Figure 2.12



NOTES

Water levels are referenced to the elevation of the pressure transducer and indicate the depth of water over the transducer.

Water temperatures are recorded at the elevation of the transducer and therefore measure the water temperature at the depth indicated by the lake level at the time of the temperature measurement.

STATUS
ISSUED FOR USE

CLIENT

Yellowknife NWT Corp

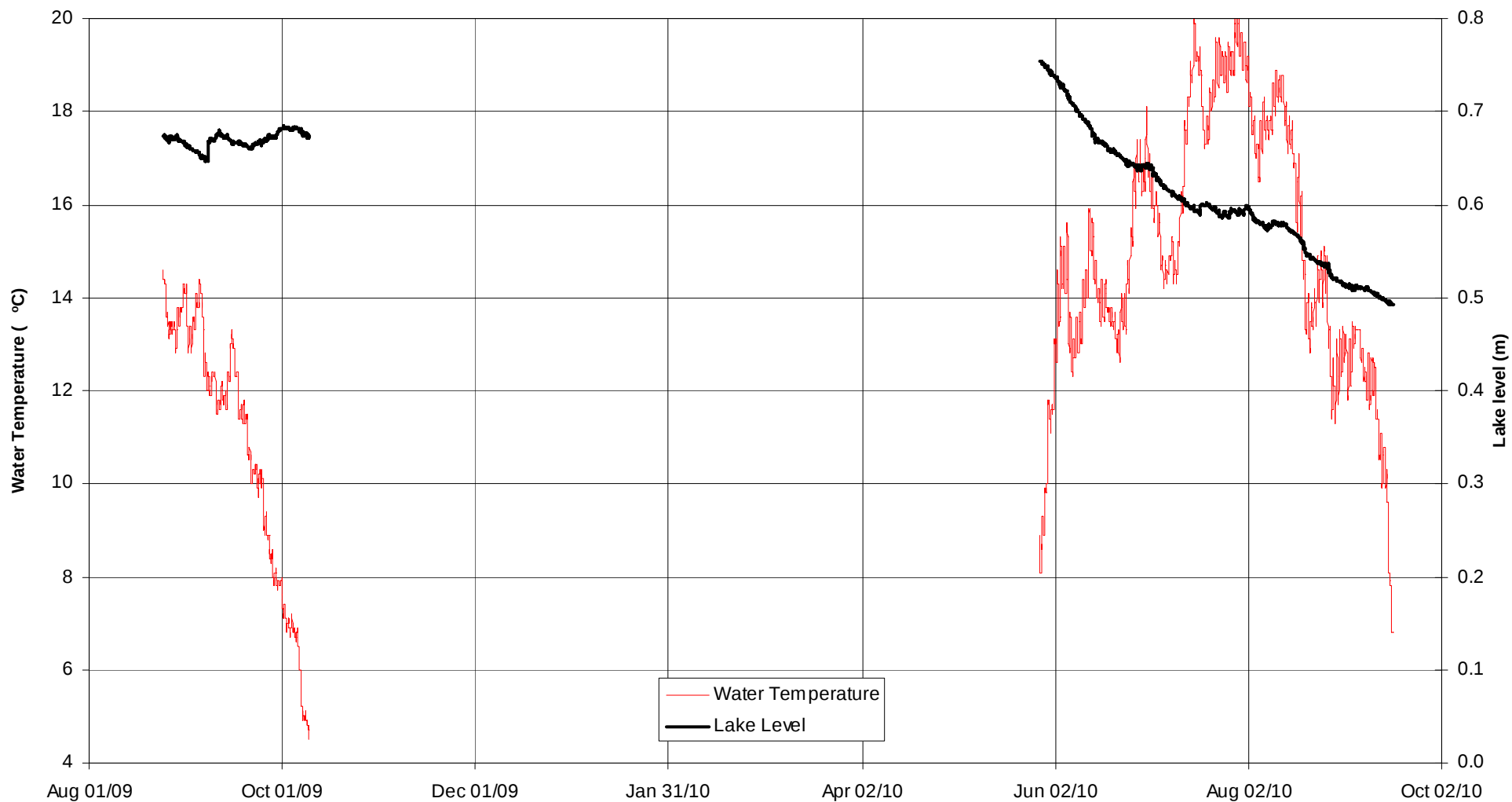
eba
A TETRA TECH COMPANY

YELLOWKNIFE GOLD PROJECT 2010 HYDROMETEOROLOGICAL REPORT

Round Lake Levels and Water Temperatures 2009 - 2010

PROJECT NO.	DWN	CKD	APVD	REV
Y22101070	RED	JAS	JAS	0
OFFICE	DATE			
EBA-VANC	January, 2010			

Figure 2.13



NOTES

Water levels are referenced to the elevation of the pressure transducer and indicate the depth of water over the transducer.

Water temperatures are recorded at the elevation of the transducer and therefore measure the water temperature at the depth indicated by the lake level at the time of the temperature measurement.

STATUS
ISSUED FOR USE

CLIENT



YELLOWKNIFE GOLD PROJECT 2010 HYDROMETEOROLOGICAL REPORT

Nicholas Lake Levels and Water Temperatures 2009 - 2010

PROJECT NO.

Y22101070

OFFICE

EBA-VANC

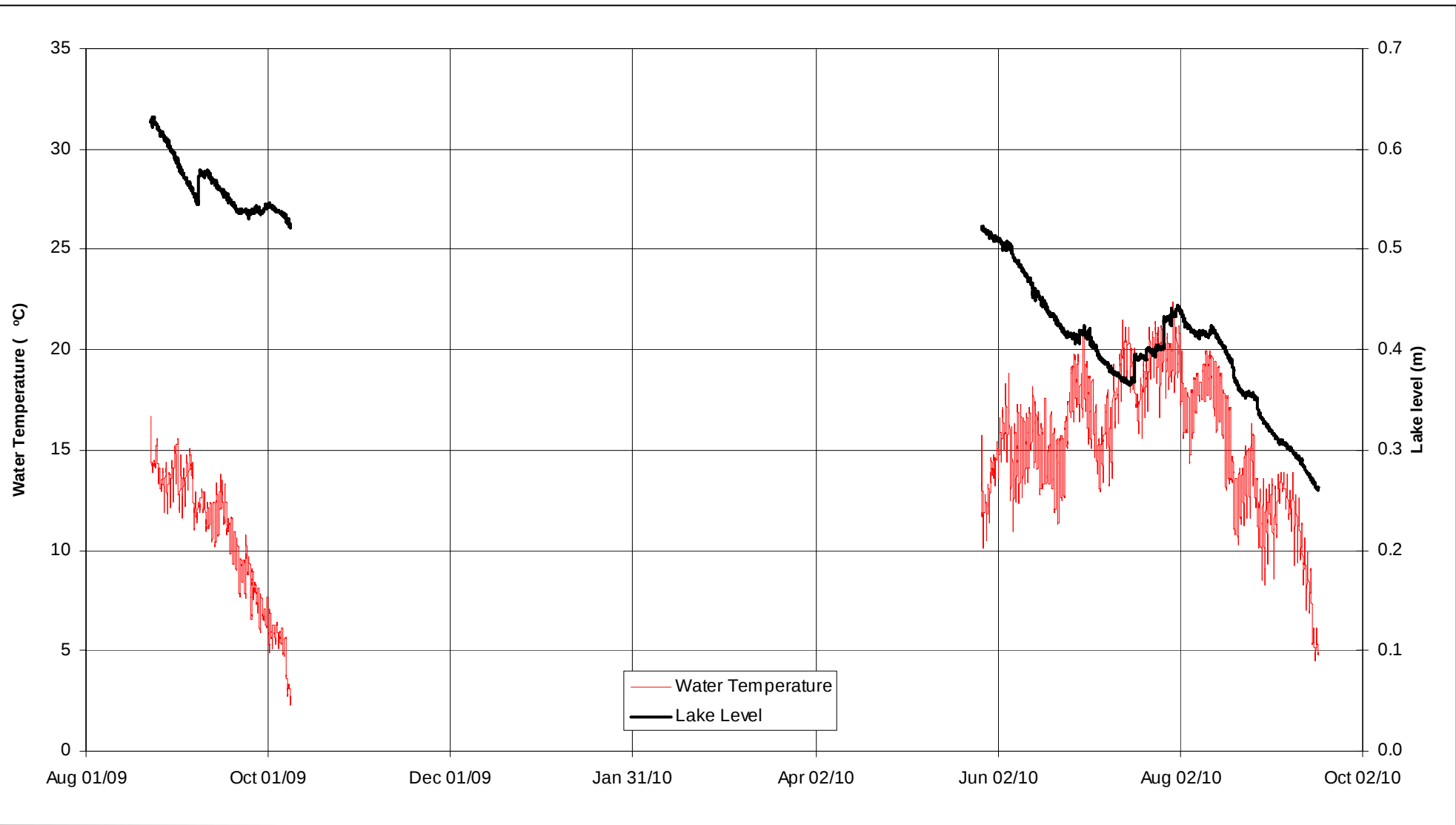
DWN CKD APVD REV

RED JAS JAS 0

DATE

January, 2010

Figure 2.14



NOTES

Water levels are referenced to the elevation of the pressure transducer and indicate the depth of water over the transducer.

Water temperatures are recorded at the elevation of the transducer and therefore measure the water temperature at the depth indicated by the lake level at the time of the temperature measurement.

STATUS
ISSUED FOR USE

CLIENT



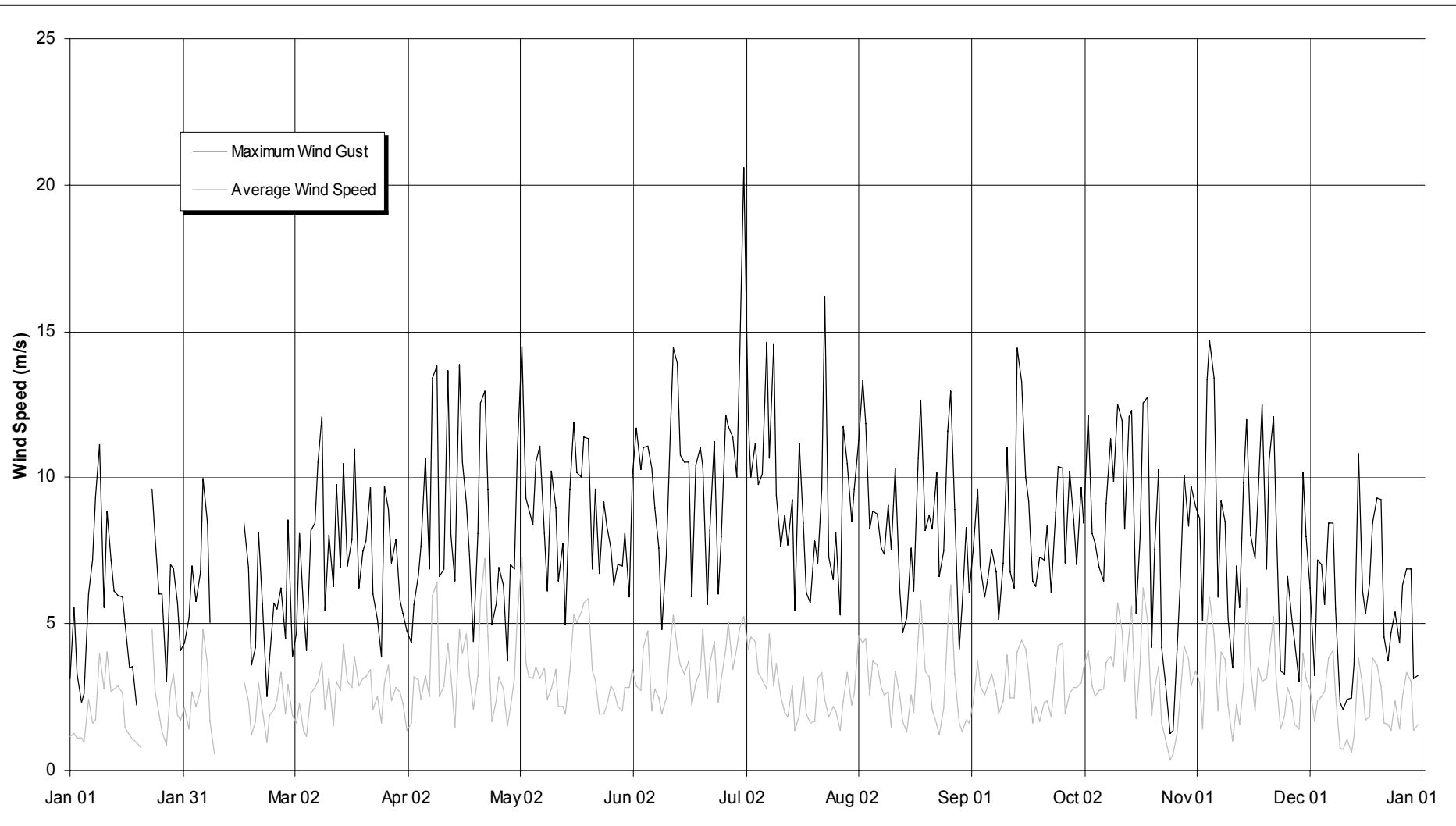

A TETRA TECH COMPANY

YELLOWKNIFE GOLD PROJECT
2010 HYDROMETEOROLOGICAL REPORT

Giauque Lake Levels and Water Temperatures 2009 - 2010

PROJECT NO.	DWN	CKD	APVD	REV
Y22101070	RED	JAS	JAS	0
OFFICE	DATE			
EBA-VANC	January, 2010			

Figure 2.15



NOTES

Ice affected wind data has been removed for the periods of
 Jan 20/10 @ 10:15 to Jan 23/10 @ 5:30 hours
 Feb 9/10 @ 2:30 to Feb 17/10 @ 13:45 hours

STATUS
ISSUED FOR USE

CLIENT



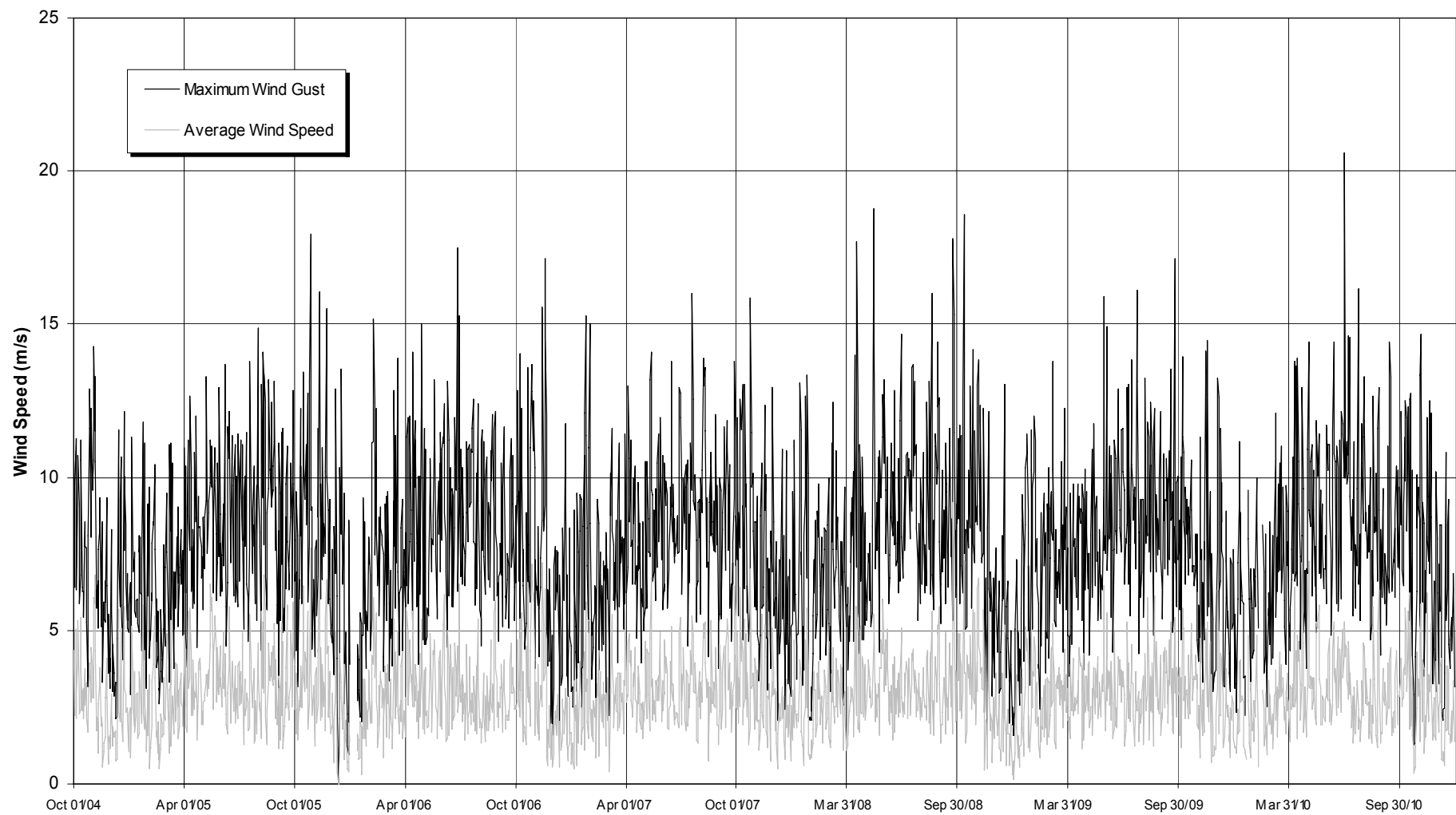
A TETRATECH COMPANY

YELLOWKNIFE GOLD PROJECT 2010 HYDROMETEOROLOGICAL REPORT

Average Daily Wind Speed & Maximum Daily Wind Gust - 2010

PROJECT NO.	DWN	CKD	APVD	REV
Y22101070	RED	JAS	JAS	0
OFFICE	DATE			
EBA-VANC	January, 2010			

Figure 3.1



NOTES

CLIENT



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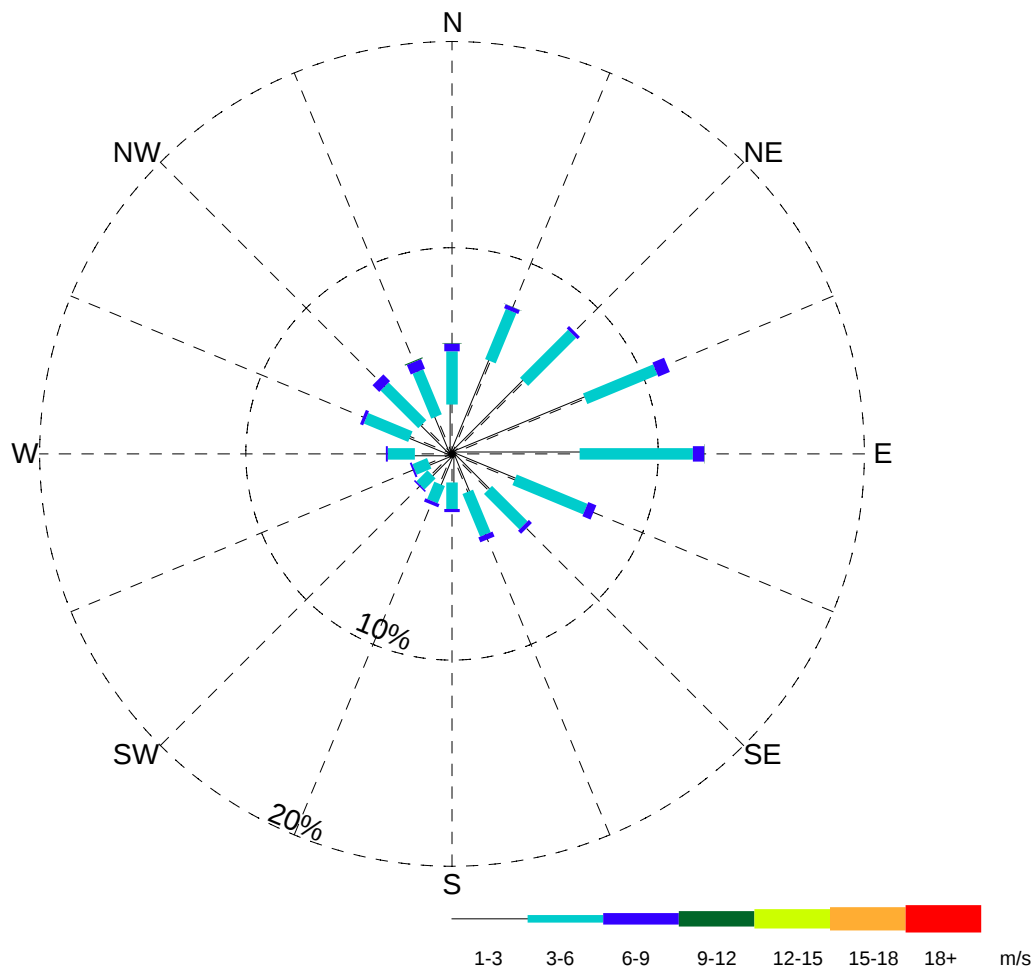
YELLOWKNIFE GOLD PROJECT 2010 HYDROMETEOROLOGICAL REPORT

Average Daily Wind Speed & Maximum Daily Wind Gust - Period of Record

PROJECT NO.	DWN	CKD	APVD	REV
Y22101070	RED	JAS	JAS	0
OFFICE	DATE			
EBA-VANC	January, 2010			

Figure 3.2

STATUS
ISSUED FOR USE



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	6.99	3.69	0.61	-	-	-	-	11.29
NE	-	4.94	3.30	0.16	-	-	-	-	8.40
NNE	-	4.86	2.63	0.20	0.01	-	-	-	7.71
N	-	2.39	2.58	0.38	0.03	-	-	-	5.38
NNW	-	1.96	2.36	0.50	0.05	-	-	-	4.88
NW	-	2.04	2.58	0.46	-	-	-	-	5.09
WNW	-	2.19	2.33	0.16	-	-	-	-	4.67
W	-	1.80	1.31	0.10	-	-	-	-	3.21
WSW	-	1.20	0.77	0.10	-	-	-	-	2.07
SW	-	1.40	0.76	0.08	-	-	-	-	2.24
SSW	-	1.58	0.91	0.17	-	-	-	-	2.65
S	-	1.39	1.29	0.15	-	-	-	-	2.83
SSE	-	1.99	2.24	0.26	-	-	-	-	4.49
SE	-	2.47	2.43	0.21	-	-	-	-	5.11
ESE	-	3.29	3.71	0.43	-	-	-	-	7.43
E	-	6.19	5.49	0.55	0.02	-	-	-	12.25
Calm	10.30	-	-	-	-	-	-	-	10.30
Total (%)	10.30	46.68	38.37	4.52	0.13	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 2190 days

Start Date: Jan. 01, 2005

End Date: Dec. 31, 2010

Comment:

NOTES

CLIENT

Tyhee NWT Corp



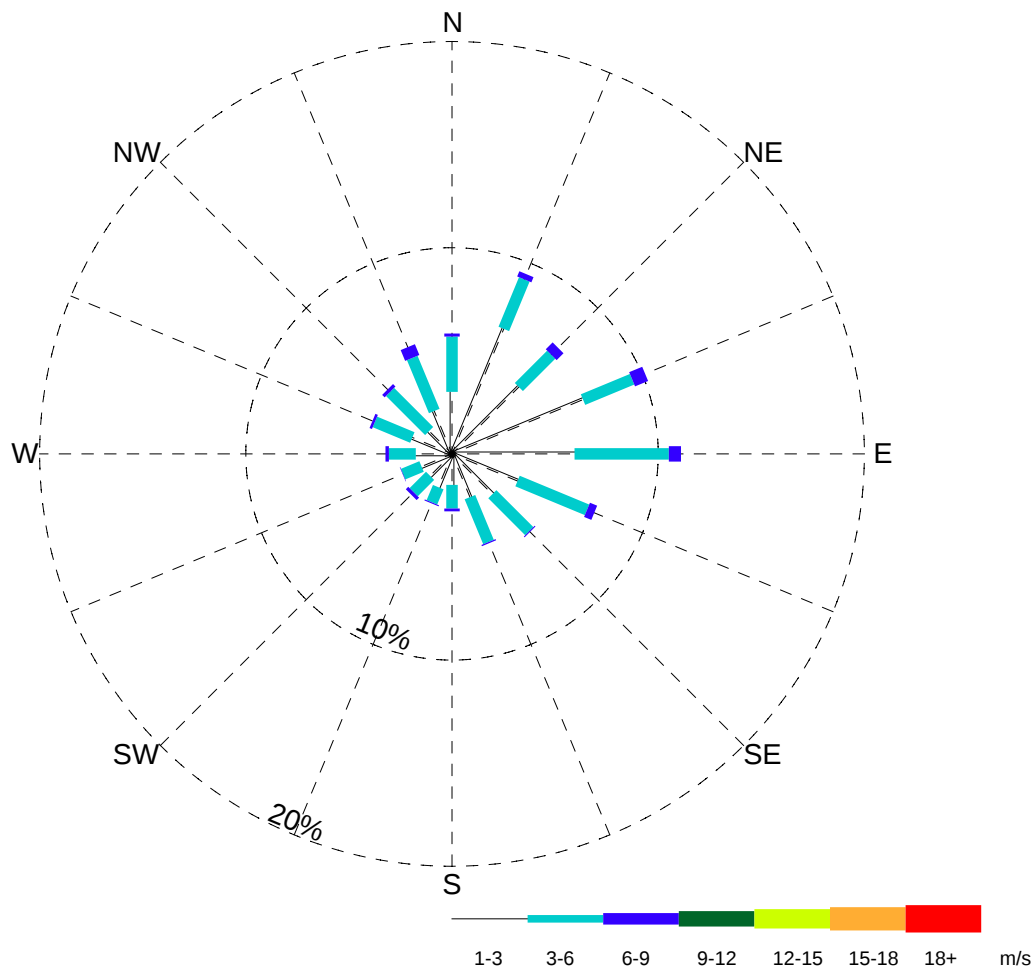
STATUS
ISSUED FOR USE

YELLOWKNIFE GOLD PROJECT 2010 HYDROMETEOROLOGICAL REPORT

Tyhee Station Wind Rose Period of Record 2005 to 2010

PROJECT NO. Y22101170	DWN RED	CHK JAS	APVD JAS	REV 0
OFFICE EBA-VANC	DATE January 2011			

Figure 3.3



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	6.88	2.58	0.68	-	-	-	-	10.14
NE	-	4.59	2.22	0.47	-	-	-	-	7.28
NNE	-	6.56	2.60	0.27	-	-	-	-	9.43
N	-	3.01	2.68	0.15	-	-	-	-	5.84
NNW	-	2.25	2.79	0.57	-	-	-	-	5.61
NW	-	1.57	2.68	0.17	-	-	-	-	4.42
WNW	-	2.08	1.97	0.13	-	-	-	-	4.18
W	-	1.76	1.30	0.17	-	-	-	-	3.23
WSW	-	1.60	0.97	0.02	-	-	-	-	2.59
SW	-	1.50	1.12	0.17	-	-	-	-	2.80
SSW	-	1.75	0.80	0.05	-	-	-	-	2.60
S	-	1.50	1.15	0.14	-	-	-	-	2.79
SSE	-	2.27	2.36	0.06	-	-	-	-	4.69
SE	-	2.77	2.53	0.05	-	-	-	-	5.35
ESE	-	3.44	3.65	0.38	-	-	-	-	7.47
E	-	5.94	4.57	0.59	-	-	-	-	11.10
Calm	10.51	-	-	-	-	-	-	-	10.51
Total (%)	10.51	49.46	35.97	4.07	-	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 354 days

Start Date: Jan. 01, 2010

End Date: Dec. 31, 2010

Comment:

NOTES

Ice affected wind data has been removed for the periods of
Jan 20/10 @ 10:15 to Jan 23/10 @ 5:30 hours
Feb 9/10 @ 2:30 to Feb 17/10 @ 13:45 hours

STATUS
ISSUED FOR USE

CLIENT

Tyhee NWT Corp

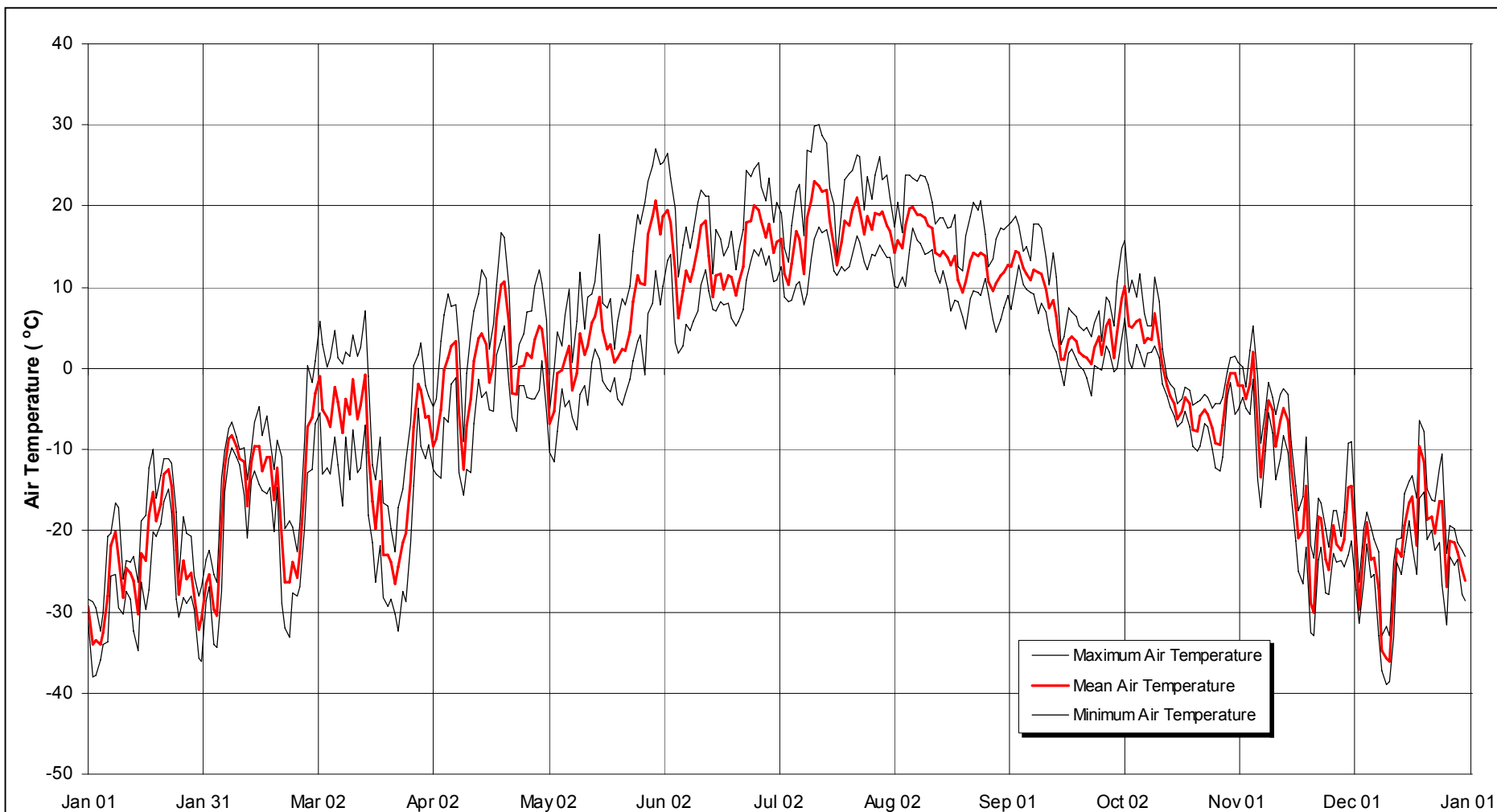
eba
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YELLOWKNIFE GOLD PROJECT 2010 HYDROMETEOROLOGICAL REPORT

Tyhee Station Wind Rose 2010

PROJECT NO. Y22101170	DWN RED	CHK JAS	APVD JAS	REV 0
OFFICE EBA-VANC	DATE January 2011			

Figure 3.4



NOTES

CLIENT



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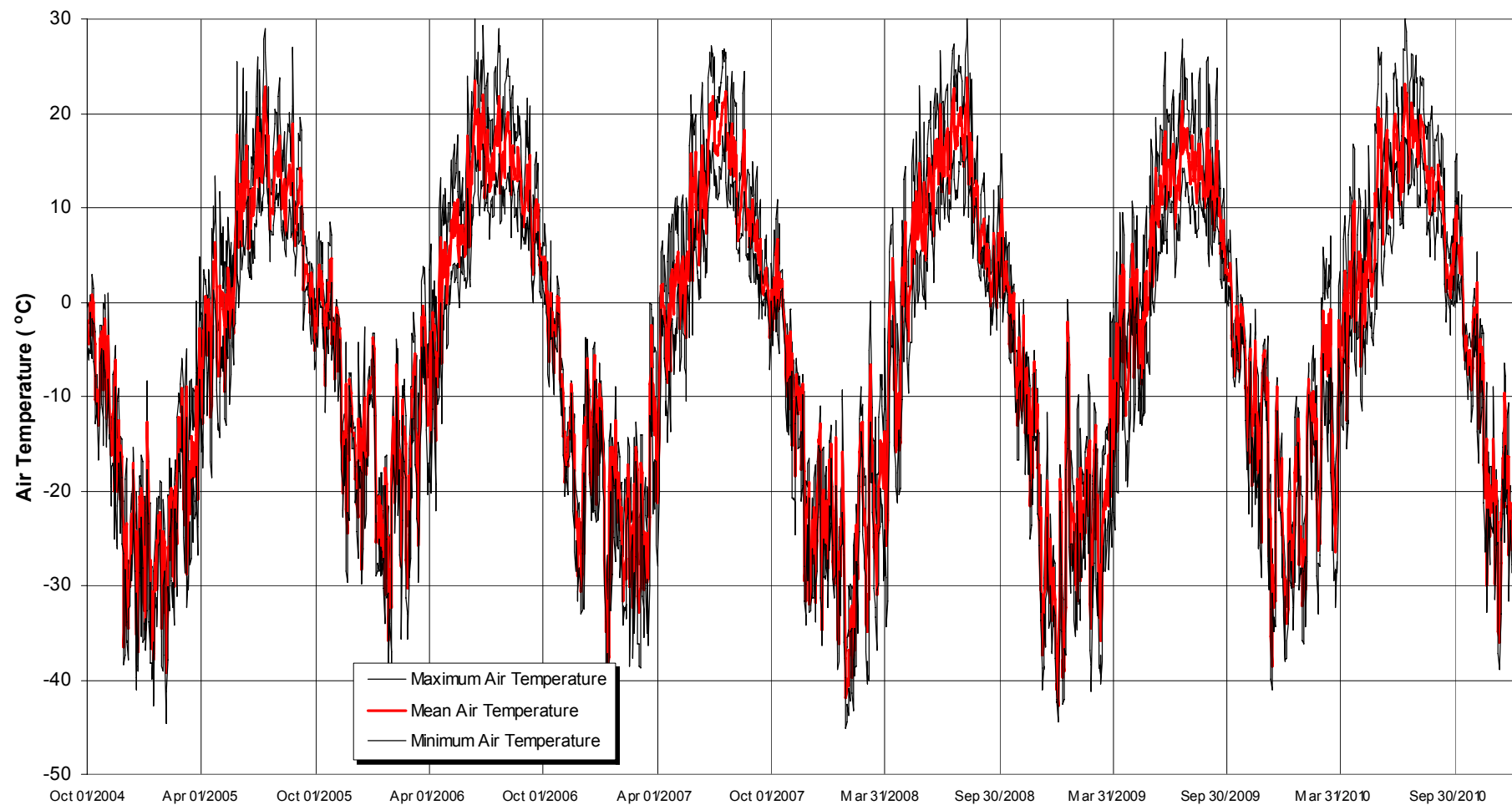
YELLOWKNIFE GOLD PROJECT 2010 HYDROMETEOROLOGICAL REPORT

Tyhee Station Air Temperatures Daily Max, Mean & Min - 2010

PROJECT NO.	DWN	CKD	APVD	REV
Y22101070	RED	JAS	JAS	0
OFFICE	DATE			
EBA-VANC	January, 2010			

Figure 3.5

STATUS
ISSUED FOR USE



NOTES

STATUS
ISSUED FOR USE

CLIENT



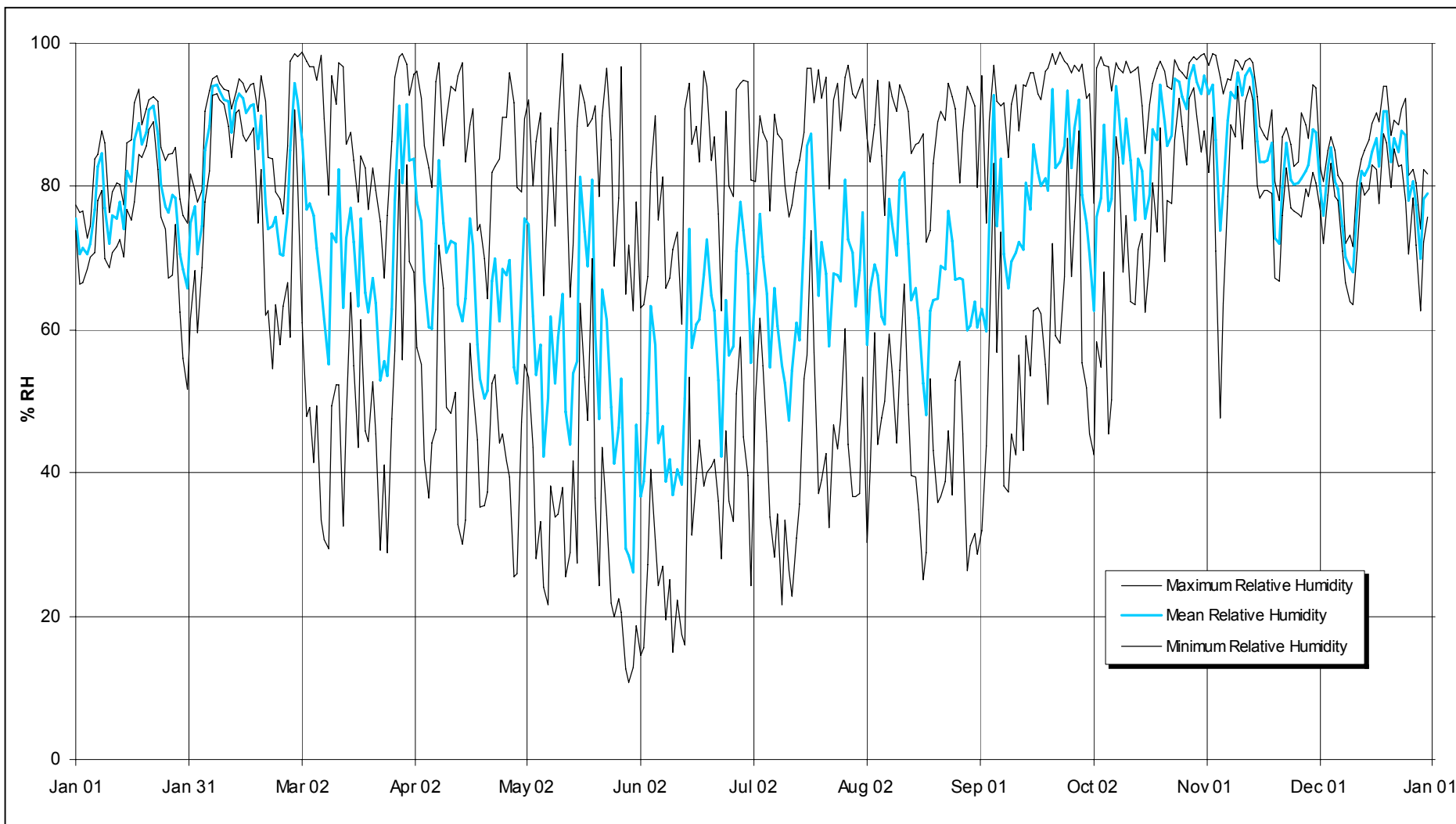
A TETRATECH COMPANY

YELLOWKNIFE GOLD PROJECT 2010 HYDROMETEOROLOGICAL REPORT

Tyhee Station Air Temperatures Daily Max, Mean & Min - 2005 to 2010

PROJECT NO.	DWN	CKD	APVD	REV
Y22101070	RED	JAS	JAS	0
OFFICE	DATE			
EBA-VANC	January, 2010			

Figure 3.6



NOTES

STATUS
ISSUED FOR USE

CLIENT



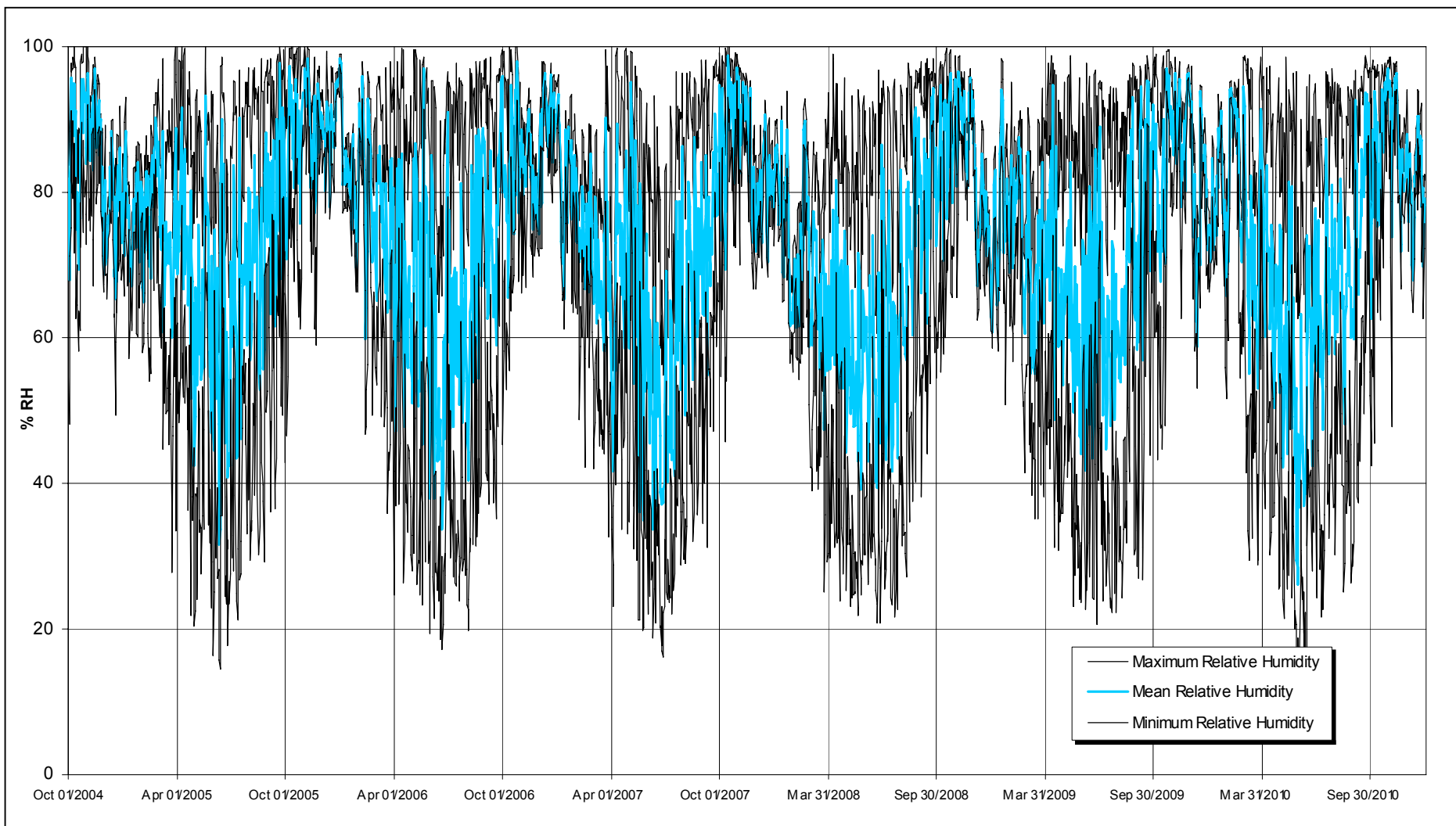
A TETRA TECH COMPANY

YELLOWKNIFE GOLD PROJECT 2010 HYDROMETEOROLOGICAL REPORT

Tyhee Station Relative Humidity Daily Max, Mean & Min - 2010

PROJECT NO.	DWN	CKD	APVD	REV
Y22101070	RED	JAS	JAS	0
OFFICE	DATE			
EBA-VANC	January, 2010			

Figure 3.7



NOTES

STATUS
ISSUED FOR USE

CLIENT



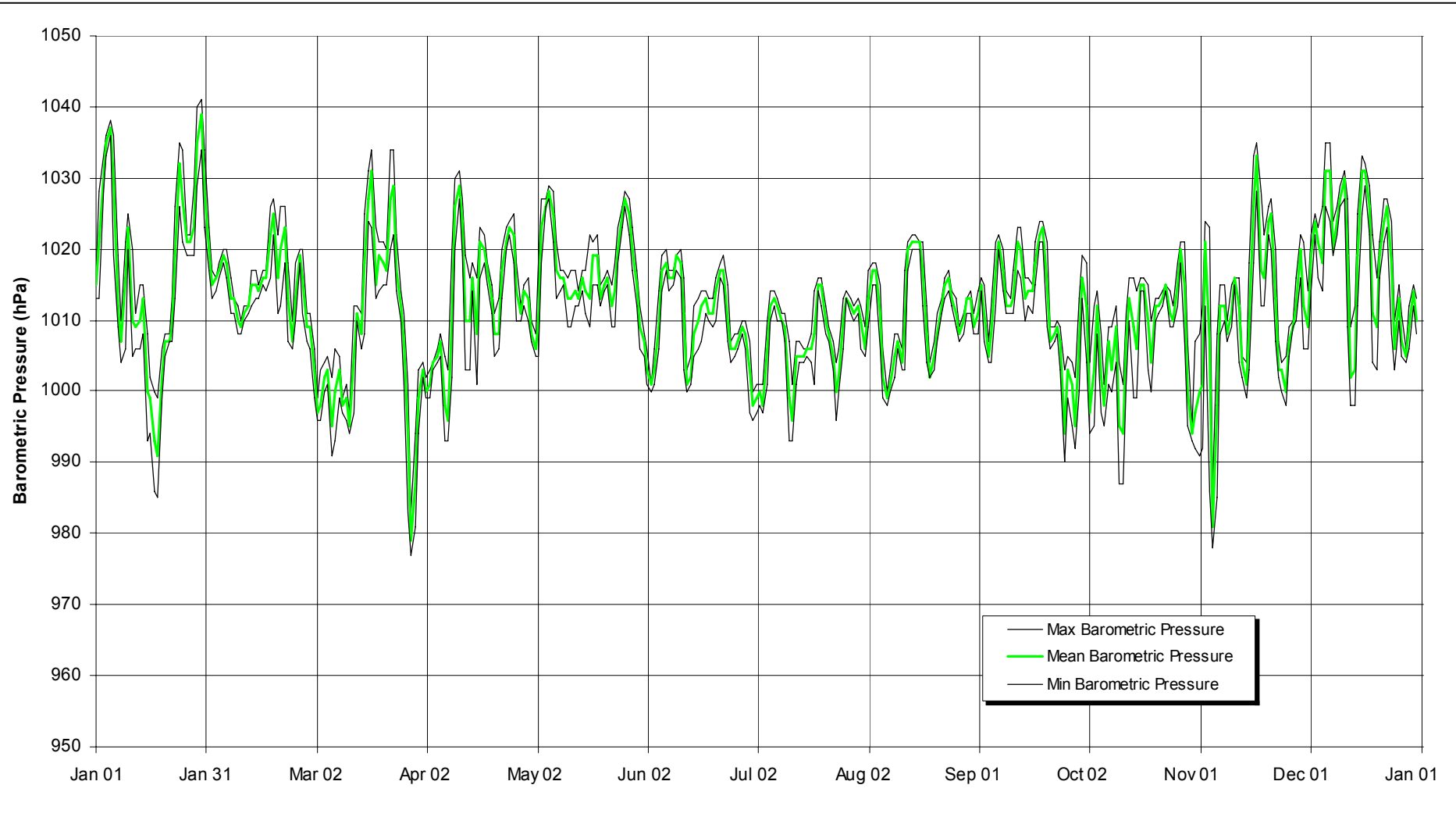
A TETRATECH COMPANY

YELLOWKNIFE GOLD PROJECT 2010 HYDROMETEOROLOGICAL REPORT

Tyhee Station Relative Humidity Daily Max, Mean & Min - 2005 to 2010

PROJECT NO.	DWN	CKD	APVD	REV
Y22101070	RED	JAS	JAS	0
OFFICE	DATE			
EBA-VANC	January, 2010			

Figure 3.8



NOTES

STATUS
ISSUED FOR USE

CLIENT

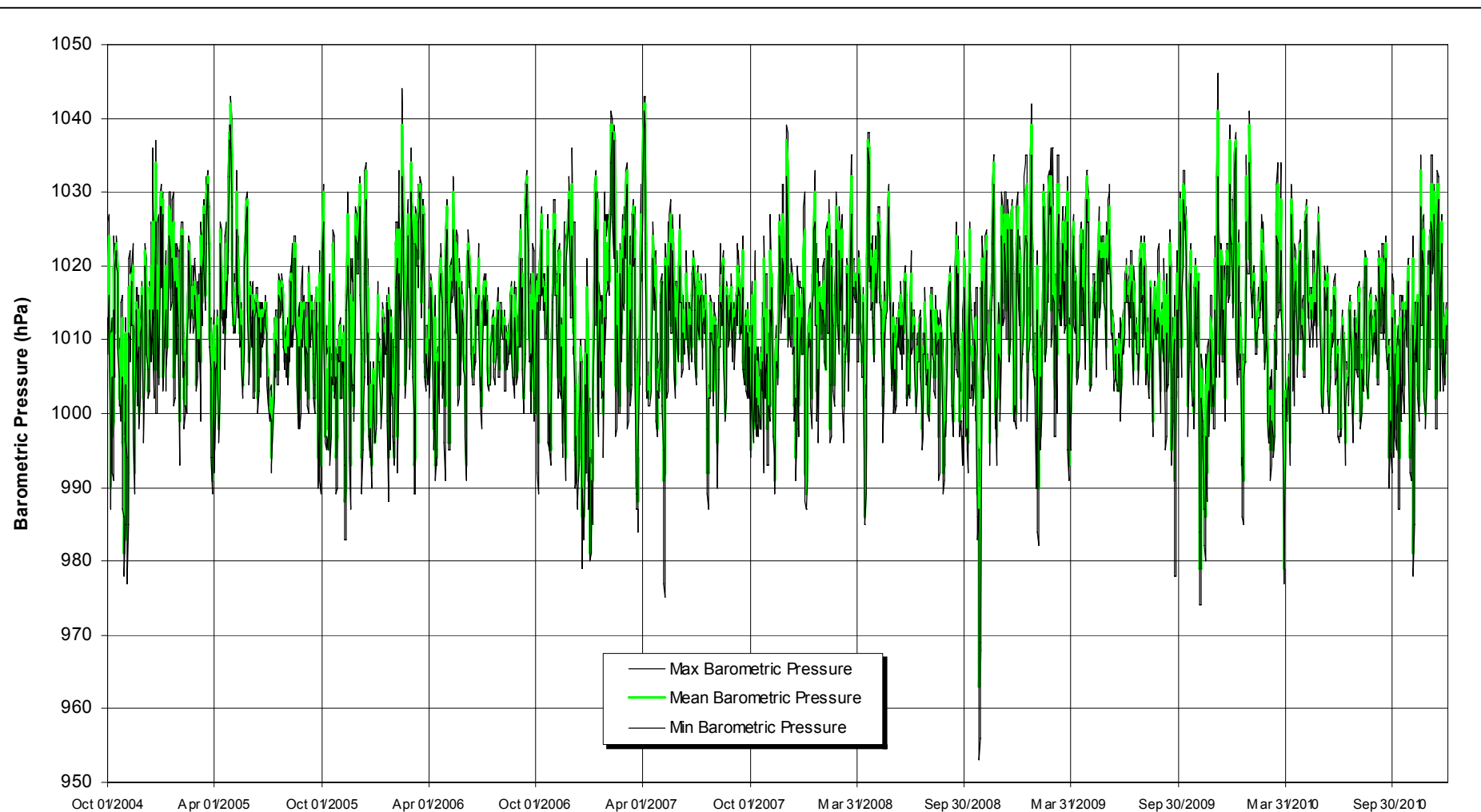


YELLOWKNIFE GOLD PROJECT 2010 HYDROMETEOROLOGICAL REPORT

Tyhee Station Barometric Pressure Daily Max, Mean & Min - 2010

PROJECT NO.	DWN	CKD	APVD	REV
Y22101070	RED	JAS	JAS	0
OFFICE	DATE			
EBA-VANC	January, 2010			

Figure 3.9



NOTES

STATUS
ISSUED FOR USE

CLIENT



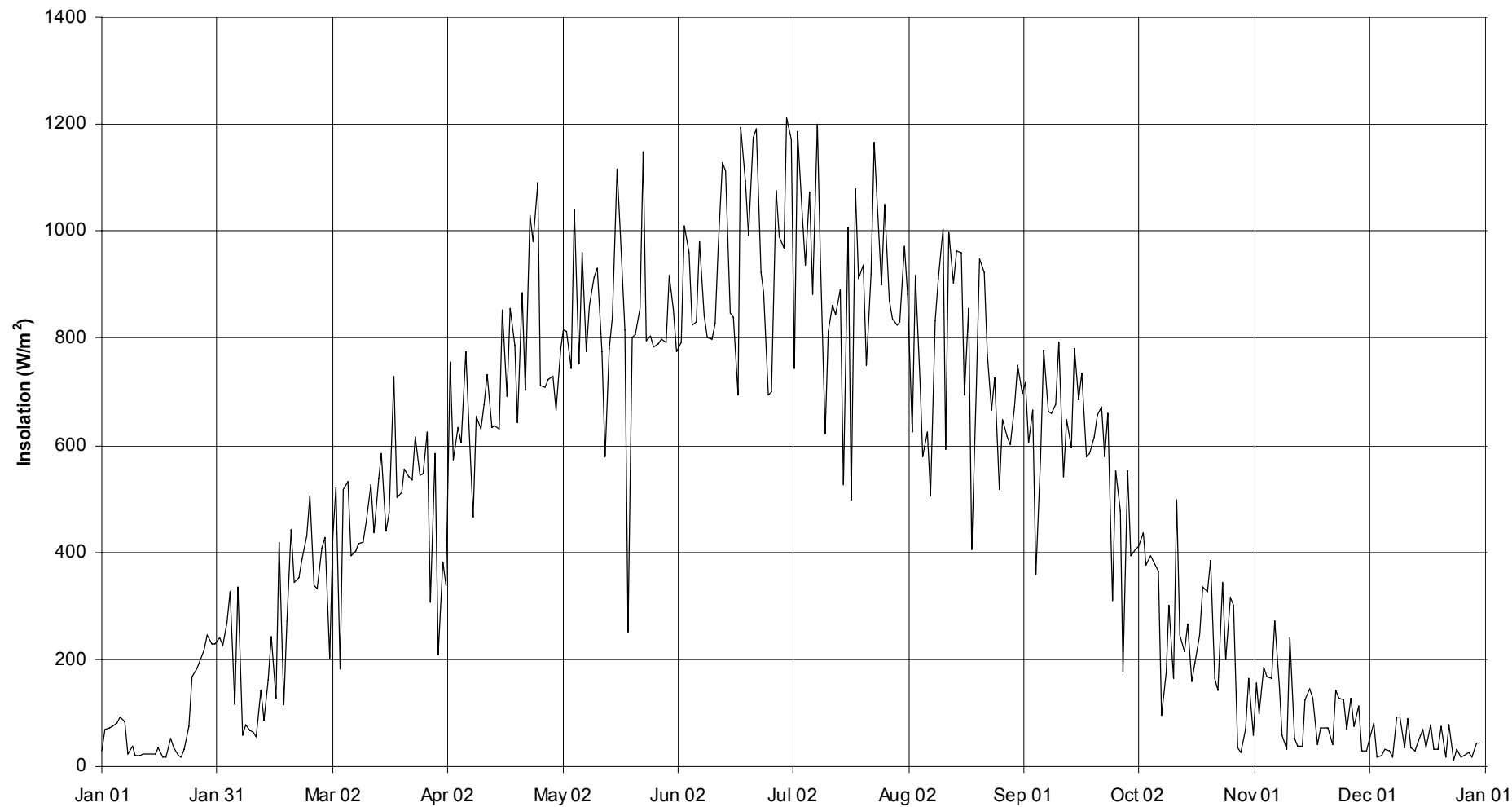
A TETRATECH COMPANY

YELLOWKNIFE GOLD PROJECT 2010 HYDROMETEOROLOGICAL REPORT

Tyhee Station Barometric Pressure Daily Max, Mean & Min - 2005 to 2010

PROJECT NO.	DWN	CKD	APVD	REV
Y22101070	RED	JAS	JAS	0
OFFICE	DATE			
EBA-VANC	January, 2010			

Figure 3.10



NOTES

STATUS
ISSUED FOR USE

CLIENT



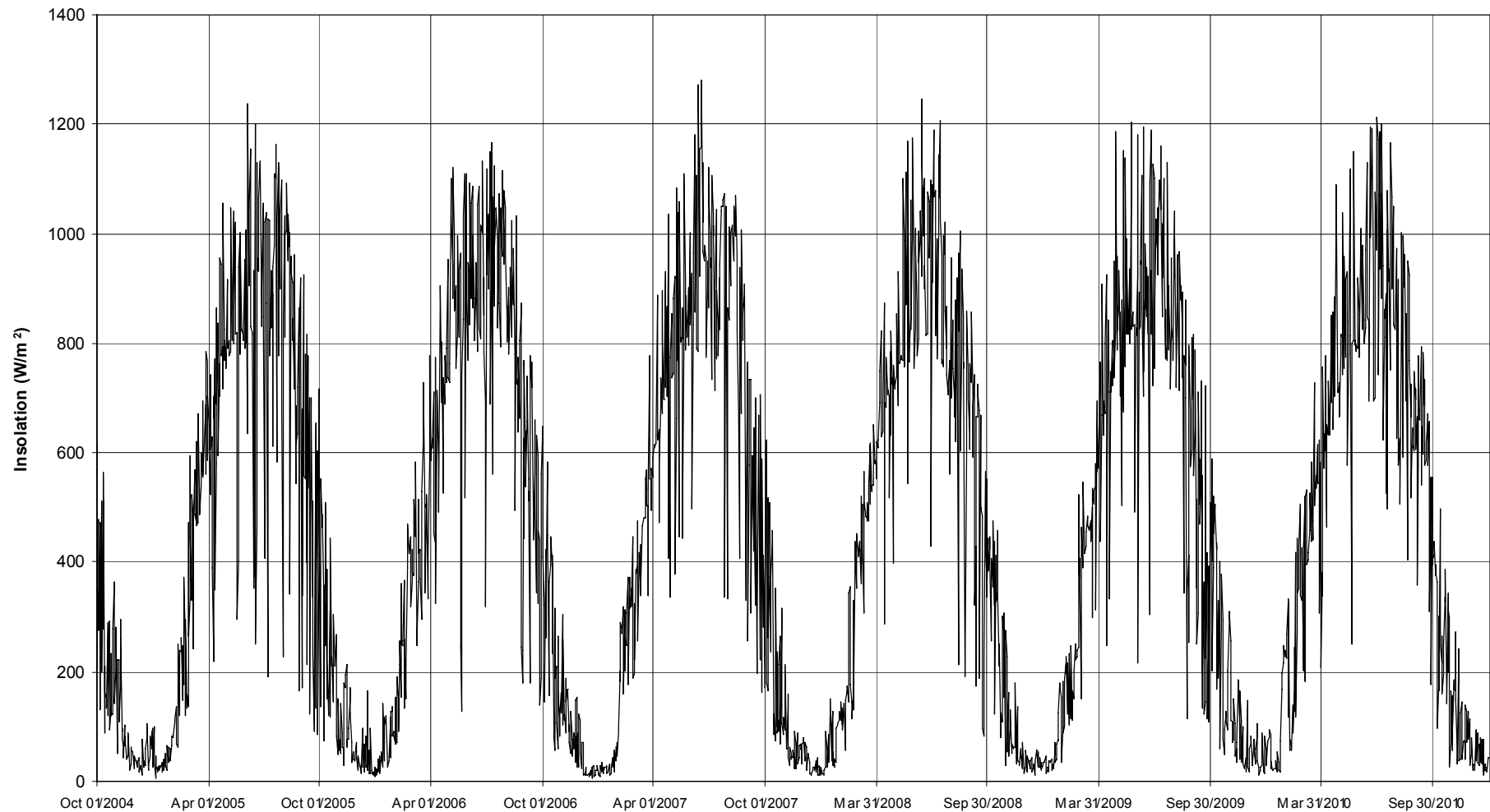
A TETRATECH COMPANY

YELLOWKNIFE GOLD PROJECT 2010 HYDROMETEOROLOGICAL REPORT

Tyhee Station Incident Solar Radiation Daily Max, Mean & Min - 2010

PROJECT NO.	DWN	CKD	APVD	REV
Y22101070	RED	JAS	JAS	0
OFFICE	DATE			
EBA-VANC	January, 2010			

Figure 3.11



NOTES

STATUS
ISSUED FOR USE

CLIENT



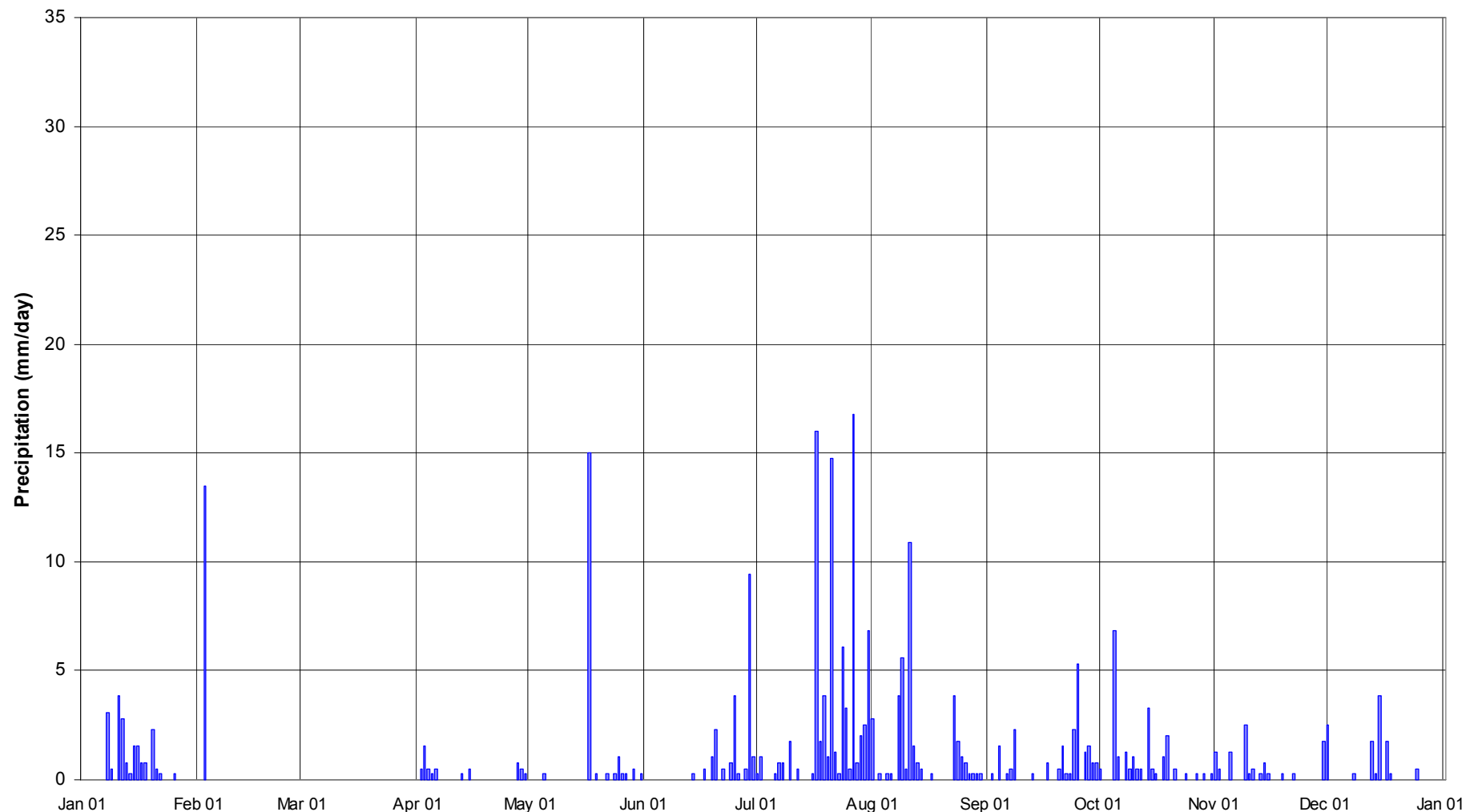
A TETRATECH COMPANY

YELLOWKNIFE GOLD PROJECT 2010 HYDROMETEOROLOGICAL REPORT

Tyhee Station Incident Solar Radiation Daily Max, Mean & Min - 2005 to 2010

PROJECT NO.	DWN	CKD	APVD	REV
Y22101070	RED	JAS	JAS	0
OFFICE	DATE			
EBA-VANC	January, 2010			

Figure 3.1



NOTES:

CLIENT



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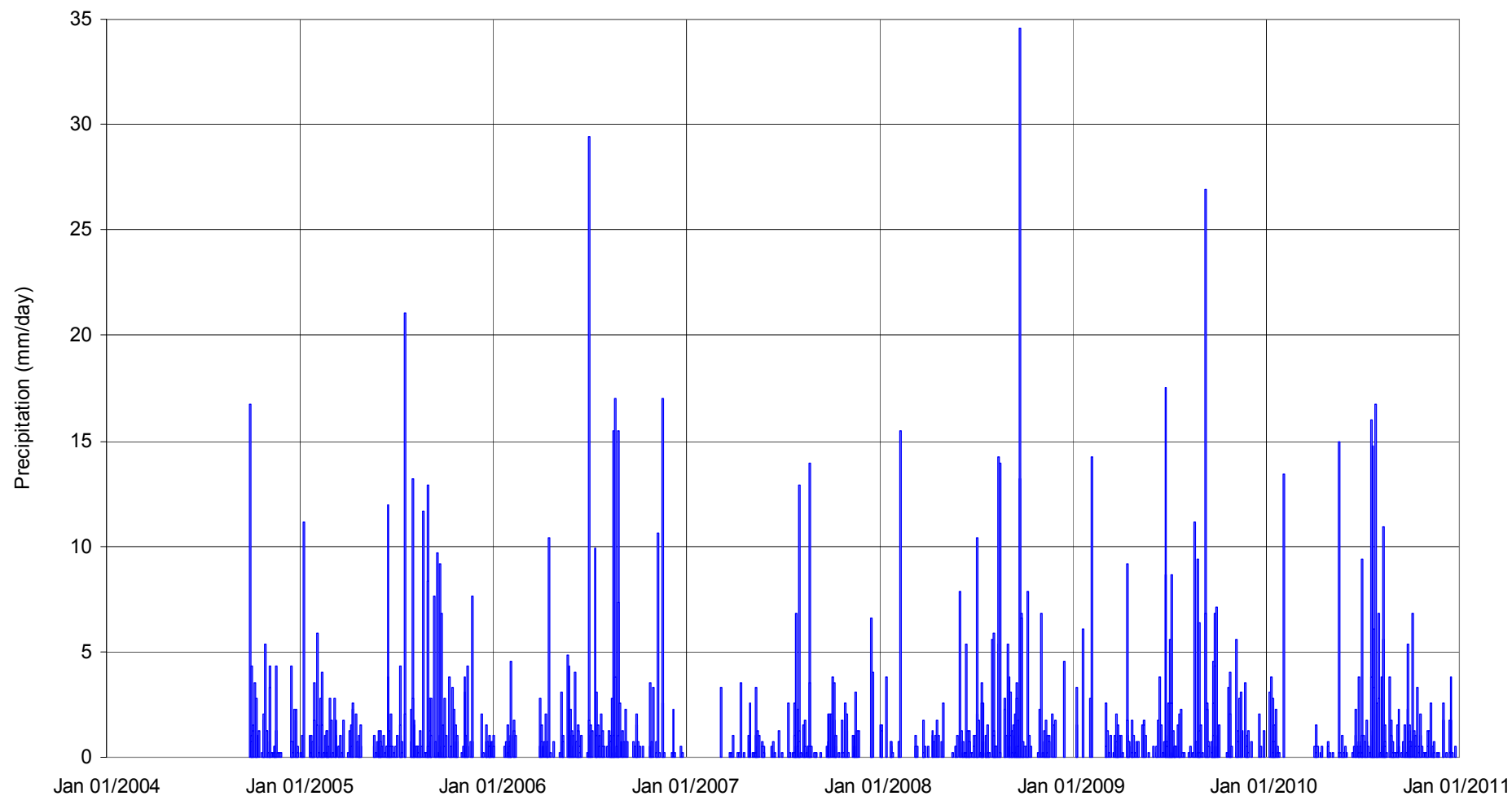
YELLOWKNIFE GOLD PROJECT 2010 HYDROMETEOROLOGICAL REPORT

Tyhee Station - Daily Water Equivalent Precipitation for 2010

PROJECT NO.	DWN	CKD	APVD	REV
Y22101070	RED	JAS	JAS	0
OFFICE	DATE			
EBA-VANC	January, 2010			

Figure 3.13

STATUS
ISSUED FOR USE



NOTES:

The period of record is from September 28, 2004 to December 31, 2010

STATUS
ISSUED FOR USE

CLIENT



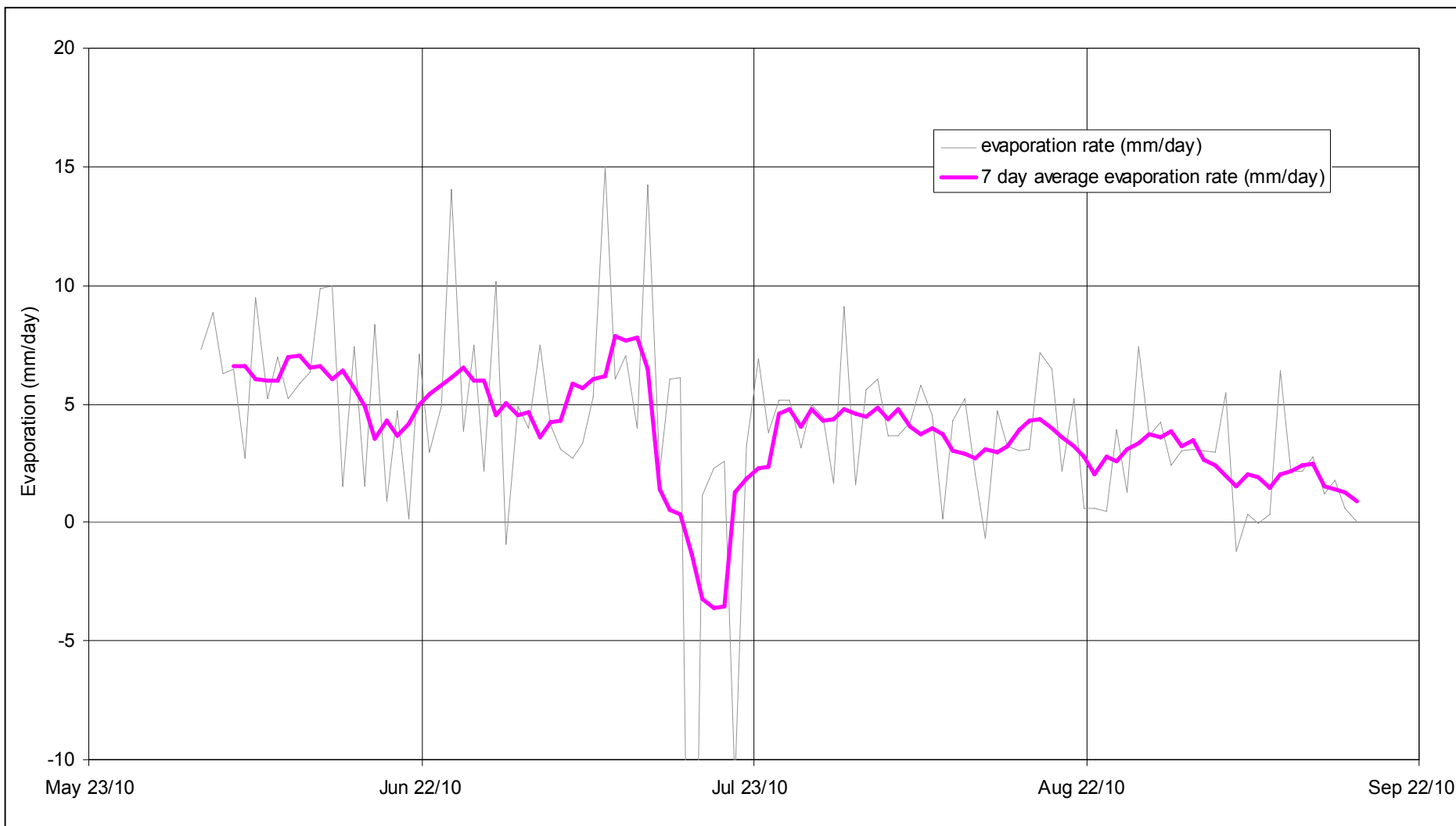
A TETRATECH COMPANY

YELLOWKNIFE GOLD PROJECT 2010 HYDROMETEOROLOGICAL REPORT

Tyhee Station - Daily Water Equivalent Precipitation for the Period of Record

PROJECT NO.	DWN	CKD	APVD	REV
Y22101070	RED	JAS	JAS	0
OFFICE	DATE			
EBA-VANC	January, 2010			

Figure 3.14



NOTES																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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APPENDIX A

APPENDIX A SITE DESCRIPTIONS

ISSUED FOR USE

Site #1: Narrow Lake Outlet

Site Identification:	Site #1: Narrow Lake Outlet		Installation Date:	July 17, 2005
Site GPS Coordinates:	North	63° 9' 16.4"	Basin Area:	9.3 km²
	West	113° 57' 7.3"	(NAD 27)	

1.0 STATION LOCATION

The station is located on the southwest end of Narrow Lake. It is about 10 m north of the winter road at the junction of the creek with the road. There are two small creeks, which flow out of Narrow Lake. Both creeks enter a small pond. A single creek flows out of this pond and for the first 50 m the flow is along a well-defined channel. The Narrow Lake outlet hydrometric Site #1 is located in this channel about 10 m downstream of the pond.

2.0 SITE DESCRIPTION

Two creeks flow southwest from Narrow Lake and merge again into a small pond. A single creek flows out of the southwest side of the pond. The creek bed is about 0.5 m below the typical bank elevation and is typically about 1 to 3 m in width. After approximately 100 m of defined creek channel, the channel disappears and the creek flow is diffuse in nature and in general, meanders through stunted growth of birch, pine trees, willow shrubs and long grass.

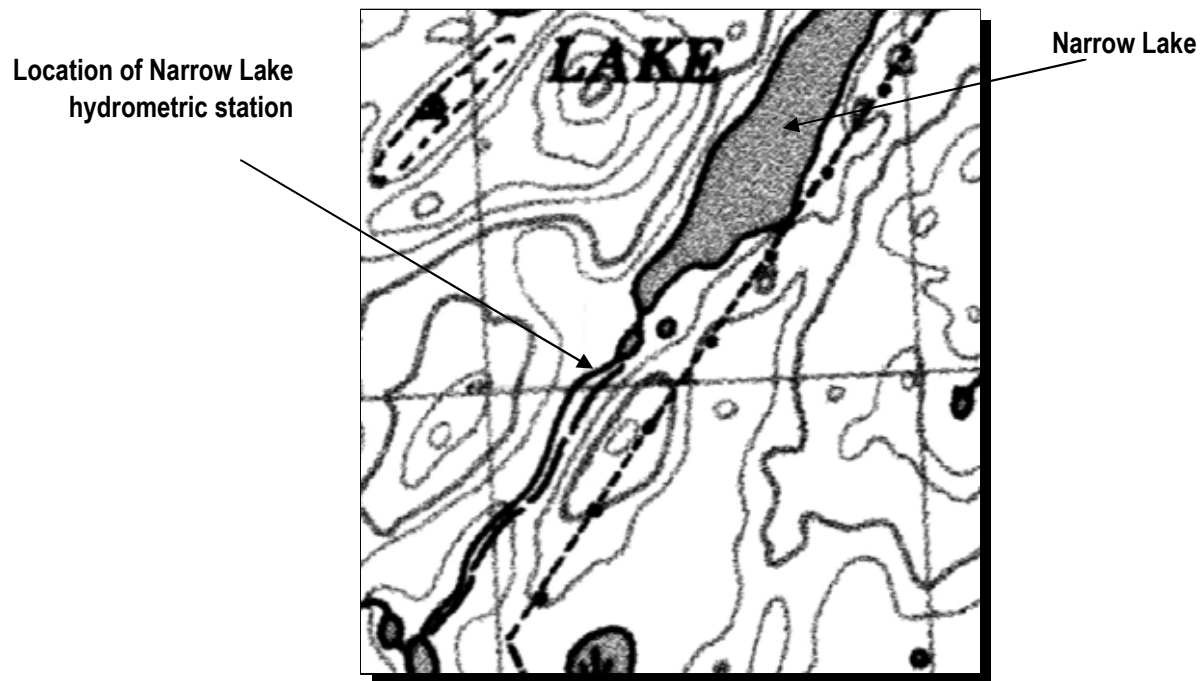
3.0 INSTRUMENTATION

The hydrometric station installed at this site includes a Parshall Flume, a water level and temperature sensor and a data logger which records data at 15 minute intervals. A staff gauge is located at the cross section where the creek is gauged, just upstream of the Parshall Flume.

4.0 SPECIFICATIONS

Equipment Specifications	
2434006	Pressure Transducer / Data Logger Serial Number
12.00 in	Parshall Flume Throat Diameter
0.07 psi	Parshall Flume Transducer Well Offset
0.159 psi	Transducer Zero Offset
690.917	Flume Calibration Algorithm Multiplier for l/s discharge
1.522	Flume Calibration Algorithm Exponent

5.0 MAP OF NARROW LAKE OUTLET HYDROMETRIC STATION



6.0 SITE PHOTOGRAPHS



Photo 1

Aerial view looking upstream to the northeast to Narrow Lake



Photo 2

Parshall Flume – Narrow Lake Outlet Hydrometric Station Photo Caption



Photo 3

Parshall Flume – Narrow Lake Outlet Hydrometric Station (downstream)

7.0 STATION HISTORY

The Narrow Lake Outlet flow monitoring station was established shortly after the spring thaw in 2004. During the summer of 2004, a staff gauge was installed at the site and spot measurements of flow and stage were recorded manually.

- May 22, 2005 – an automated stage and temperature recorder was installed at this station. A survey monument was also installed at this site, to provide a known reference point, for elevation surveys of the site instrumentation. This station was removed from service on July 15, 2005 to accommodate site improvements.
- July 17, 2005 – the hydrometric station was upgraded by installing a Parshall flume.
- June 9, 2006 – the Parshall flume and bulkhead was inspected for damage or leakage. No problems were observed and the pressure transducer and data logger were reinstalled to collect discharge data over the summer of 2006.
- September 19, 2006 – the instrumentation was removed for the season.
- May 11, 2007 – instrumentation was re-installed to collect discharge data over the summer of 2007.
- June 10, 2007 – the Parshall flume and bulkhead was inspected damage or leakage. Leaks were plugged on both sides of flume. It was observed that during high flows, leaks may occur around the sides of the bulkhead.
- September 28, 2007 – the instrumentation was removed for the season.
- June 4, 2008 – the Parshall flume and bulkhead was inspected and there was no damage or leakage. Instrumentation re-installed for the summer and discharge measurements collected for flume calibration.
- July 29, 2008 – the Parshall flume and bulkhead was inspected and there was no damage or leakage. Flume calibrations data collected.
- September 26, 2008 – the instrumentation was removed for the season.
- June 6, 2009 - The stage recorder was re-installed for the 2009 hydrological study at 8:46 AM during the initial site visit for the year. The Parshall flume and bulkhead were inspected and no damage or leakage was observed at this time. Stage discharge data was collected and the data logger downloaded to ensure correct operation.
- August 24, 2009 - A second site visit occurred on for the purpose of site inspection, stage discharge data collection and downloading of the station's data.
- October 8, 2009 - The instrumentation was removed for the season.
- May 27, 2010 - The stage recorder was installed for the 2010 hydrological study.
- June 3/2010 - The Parshall flume and bulkhead were inspected. No damage or leakage was observed at this time. Discharge data was collected to check flume calibration and the data logger downloaded to ensure correct hydrometric station operation.
- September 20, 2010 - the hydrometric instrumentation was removed for the season.

ISSUED FOR USE

Site #3: Winter Lake Outlet

Site Identification:	Site #3: Winter Lake Outlet	Installation Date:	July 14, 2005
Site GPS Coordinates:	North 63° 10' 4.8 "	Basin Area:	5.5 km²
	West 113° 55' 38.5" (NAD 27)		

1.0 STATION LOCATION

The site is located between Narrow Lake to the southwest and Winter Lake to the northeast. The Winter Lake outlet is located on the northwest portion of Winter Lake about 10 m to the south of the winter road. The hydrometric station is located 60 m downstream from the outlet.

2.0 SITE DESCRIPTIONS

The creek flows along the south side of the winter road to the midway point between Winter and Narrow Lakes. Over this reach of the creek, the channel is typically 30 to 60 cm wide by 15 to 20 cm deep. Over the rest of the distance to Narrow Lake, the creek flows along a poorly defined diffuse route down the winter road and discharges to Narrow Lake.

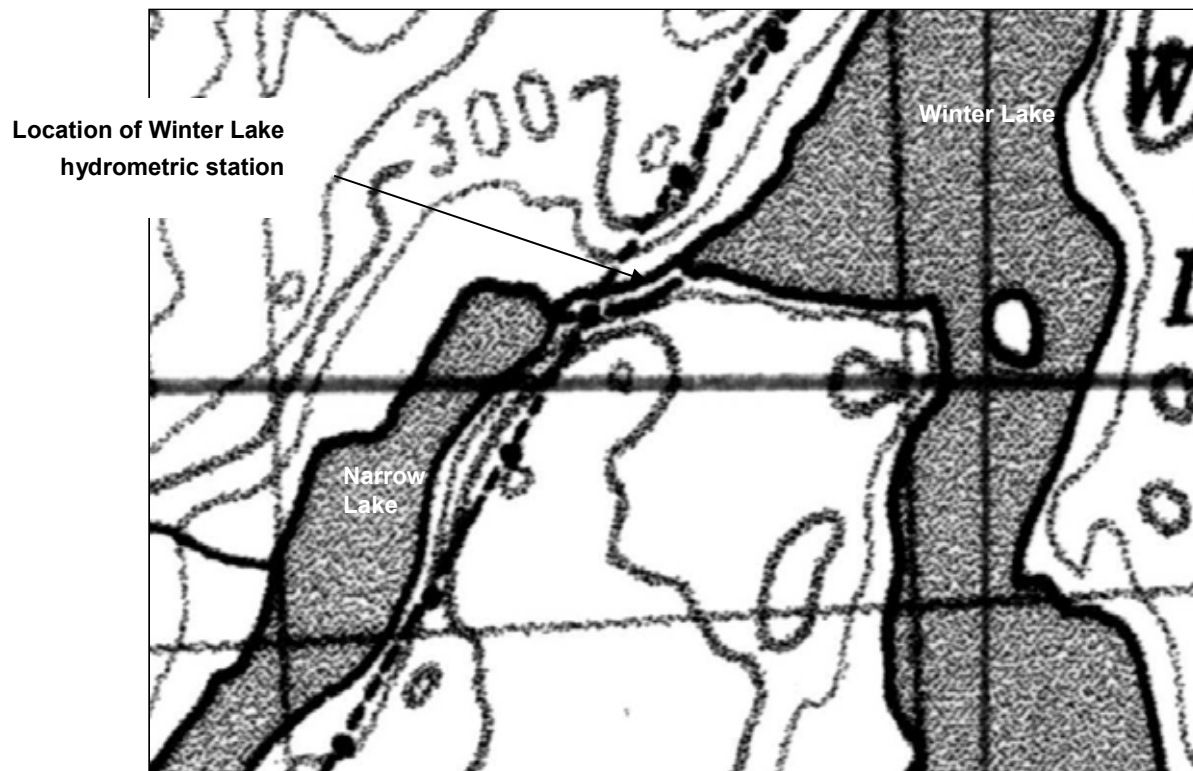
3.0 INSTRUMENTATION

The hydrometric station installed at this site includes a Parshall flume, a water level and temperature sensor and a data logger which records data at 15 minute intervals. A staff gauge is located at the cross section where the creek is gauged, just upstream of the Parshall Flume.

4.0 SPECIFICATIONS

Equipment Specifications	
2434007	Pressure Transducer / Data Logger Serial Number
9.00 in	Parshall Flume Throat Diameter
0.048 psi	Parshall Flume Transducer Well Offset
0.156 psi	Transducer Zero Offset
535.343	Flume Calibration Algorithm Multiplier
1.53	Flume Calibration Algorithm Exponent

5.0 MAP OF WINTER LAKE OUTLET HYDROMETRIC STATION



6.0 PHOTOGRAPHS OF WINTER LAKE OUTLET HYDROMETRIC STATION



Photo 1

Aerial view from Winter Lake looking southwest across site to Narrow Lake

7.0 SITE PHOTOGRAPH



Photo 2

Parshall Flume – Winter Lake Outlet Hydrometric Station (upstream)

8.0 STATION HISTORY

A site was selected for the Winter Lake hydrometric station on May 20, 2005 during the first hydrometric site visit of that year. Only manually determined discharges were recorded during the 2005 field survey. A Parshall flume was sized and ordered as well as the necessary hydrometric station instrumentation.

- July 14, 2005 - the hydrometric station was upgraded by installing a Parshall flume.
- June 9, 2006 - the Parshall flume and bulkhead was inspected for damage and leakage. No problems were observed and the pressure transducer and data logger were reinstalled to collect discharge data over the summer of 2006.
- September 19, 2006 - the instrumentation was removed for the season.
- May 19, 2007 – instrumentation was re-installed to collect discharge data over the summer of 2007.
- June 10, 2007 – the Parshall flume and bulkhead was inspected for damage and leakage. Leakage at higher flows around the flume was observed to be possible and attempts at repairs made. Next season further repairs to the flume construction are necessary to prevent further leakage and erroneous flow data.
- September 28, 2007 - the instrumentation was removed for the season.
- May 27, 2008 - the instrumentation was installed for the summer of 2008.
- June 3, 2008 - Leakage at higher flows around the flume was observed to be possible and attempts at repairs made. Plans made to completely overhaul the flume and bulkhead.
- July 29, 2008 – The flume and bulkhead were removed from the station and the flume and new bulkhead installed. The flume was installed approximately 10 cm lower than the previous installation to minimize potential backwater effects. Discharge data collected to check the calibration of the flume.
- September 26, 2008 - the instrumentation was removed for the season.
- June 5, 2009 - The stage recorder was installed for the 2009 hydrological study. The Parshall flume and bulkhead were inspected and some minor repairs were necessary to prevent leakage through the bulkhead. No leakage was observed after the repairs. Stage discharge data was collected and the data logger downloaded to ensure correct operation.
- August 21, 2009 – The second site visit for site inspection, stage discharge data collection and downloading of the station's data.
- October 8, 2009 - The instrumentation was removed for the season.
- May 27, 2010 - The stage recorder was installed for the 2010 hydrological study
- June 5, 2010 Site visit by EBA Hydrologist. During the visit the Parshall flume and bulkhead were inspected and some minor repairs were necessary to prevent leakage through the bulkhead. No leakage was observed after the repairs. Stage discharge data was collected to ensure flume calibration and the data logger downloaded to ensure correct operation.
- September 17, 2010 - The instrumentation was removed for the season.

ISSUED FOR USE

Site #4: Round Lake Outlet

Site Identification:	Site #4: Round Lake Outlet			Installation Date:	July 18, 2005
Site GPS Coordinates:	North	63° 10' 30.3"		Basin Area:	1.2 km ²
	West	113° 54' 27.2"	(NAD 27)		

1.0 STATION LOCATION

The site is located between Winter Lake to the southwest and Round Lake to the east. The station is located on the north side of the winter road, 75 m northeast from the point the winter road intersects Round Lake. The flow outlet is situated on the northwest side of Round Lake.

2.0 SITE DESCRIPTIONS

There is no distinct flow channel out of Round Lake but rather a diffuse flow through the muskeg into a small marsh approximately 5 m downstream from the lake. The outlet from this marsh flows southwest into Winter Lake, typically as a vadose flow, through the muskeg and willow shrubs. At one point, about 25 m southwest of the Round Lake outlet, the flow is contained in a single channel. The hydrometric station was installed here.

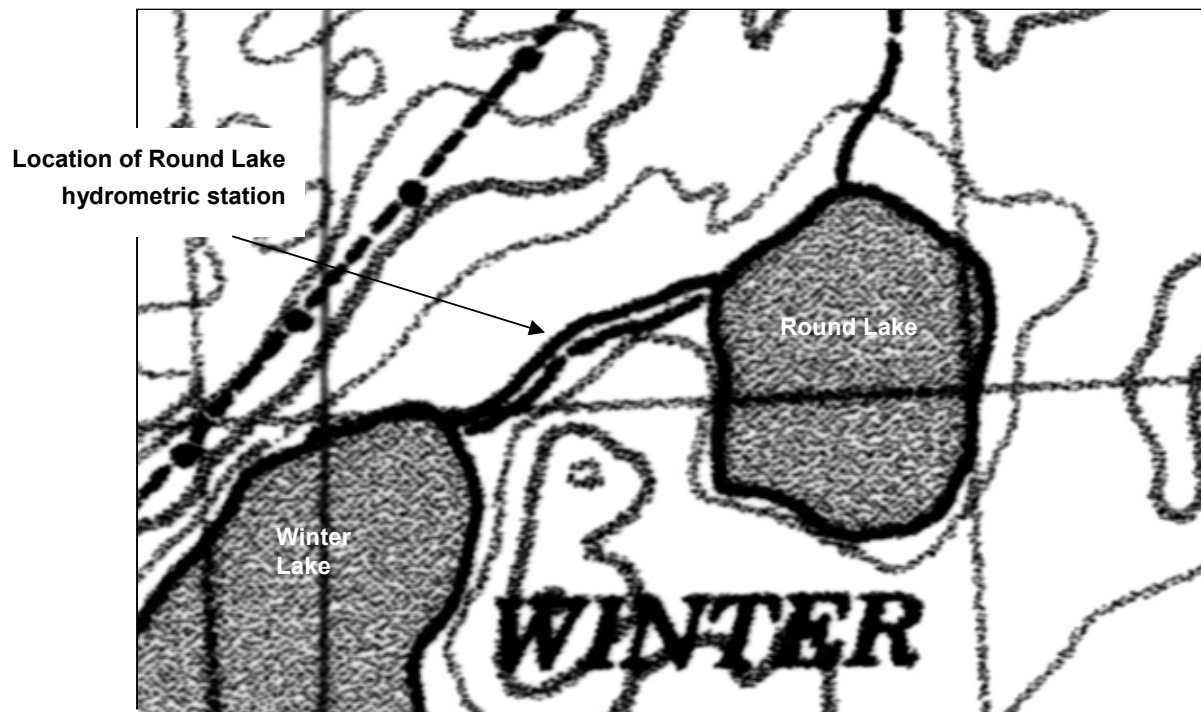
3.0 INSTRUMENTATION

The hydrometric station installed at this site includes a Parshall Flume, a water level and temperature sensor and a data logger which records data at 15 minute intervals. A staff gauge is located at the cross section where the creek is gauged, just upstream of the Parshall Flume.

4.0 SPECIFICATIONS

Equipment Specifications	
2516008	Pressure Transducer / Data Logger Serial Number
6.00 in	Parshall Flume Throat Diameter
0.049 psi	Parshall Flume Transducer Well Offset
0.214 psi	Transducer Zero Offset
381.206	Flume Calibration Algorithm Multiplier
1.580	Flume Calibration Algorithm Exponent

5.0 MAP OF ROUND LAKE OUTLET HYDROMETRIC STATION



6.0 PHOTOS OF ROUND LAKE OUTLET HYDROMETRIC STATION



Photo 1

Aerial view from Round Lake southwest across site to Winter Lake



Photo 2

Parshall Flume – Round Lake Outlet Hydrometric Station (downstream)

7.0 STATION HISTORY

A site was selected for the Round Lake hydrometric station on May 21, 2005 during the first hydrometric site visit of that year. Only manually-determined discharges were recorded during this field survey.

- July 14, 2005 – the hydrometric station was upgraded by installing a Parshall flume.
- July 18, 2005 – a Parshall flume was installed and instrumented.
- September 12, 2005 – instrumentation was removed for the season.
- June 9, 2006 – the Parshall flume and bulkhead was inspected for damage or leakage. A leak in the bulkhead was repaired and the pressure transducer and data logger were reinstalled to collect discharge data over the summer of 2006.
- October 3, 2006 – the instrumentation was removed for the season.
- May 19, 2007 – instrumentation was re-installed to collect discharge data over the summer of 2007.
- June 11, 2007 – the Parshall flume and bulkhead was inspected for damage and leakage. The bulkhead needs repair work, as during high flows, leakage could occur around the sides, however at low flows, there is no apparent leakage.
- September 28, 2007 – the instrumentation was removed for the season.
- May 22, 2008 – the instrumentation was installed for the season.
- June 4, 2008 – the Parshall flume and bulkhead was inspected for damage and leakage. The bulkhead needs repair work and it is scheduled for the next field trip to site in July.
- July 29, 2008 – the Parshall flume and bulkhead was completely removed and the flume re-installed with a new bulkhead. Discharge measurements were collected to check flume calibration.
- September 26, 2008 – the instrumentation was removed for the season.
- June 5, 2009 - The stage recorder was reinstalled for the 2009 hydrological study. The Parshall flume and bulkhead were inspected for damage and leakage. Some seepage was noted, but was easily repaired by packing more mud and sandbags on the bulkhead.
- August 21, 2009 – The second site visit for site inspection, stage discharge data collection and downloading of the station's data.
- October 8, 2009 - The water level recorder was removed for the season.
- May 27, 2010 - The stage recorder was reinstalled for the 2010 hydrological study.
- June 4, 2010 – Site Visit by EBA hydrologist. The Parshall flume and bulkhead were inspected for damage and leakage. Some seepage was noted, but was easily repaired by packing more mud and sandbags on upstream side of the bulkhead.
- September 17, 2010 - The water level recorder was removed for the season.

ISSUED FOR USE

Site #6: Nicholas Lake Outlet

Site Identification:	Site #6: Nicholas Lake Outlet		Installation Date:	July 13, 2005
Site GPS Coordinates:	North	63° 15' 20.1"	Basin A area:	6.28 km²
	West	113° 46' 4.4"	(NAD 27)	

1.0 STATION LOCATION

The site is located at the western end of the Northwest arm of Nicholas Lake just downstream of Nicholas Lake outlet. The discharge gauging station and staff gauge are located about 10 m downstream of the creek outlet at Nicholas Lake, in the open and well-defined channel. Five metres further downstream from the staff gauge, the hydrometric stage recorder housing is attached to a vertical rock face so that the sensor is submerged.

2.0 SITE DESCRIPTIONS

The creek exits in a well-defined bedrock channel. Within 30 m from the outlet of the lake, large boulders begin to occupy the streambed. Within 100 m of the outlet, boulders almost completely fill the creek channel, restricting the flow area. Flow occurs around and under the numerous boulders. There are only small areas where the flow is visible under the rock-filled channel. The rock-filled channel extends the rest of the length of the creek.

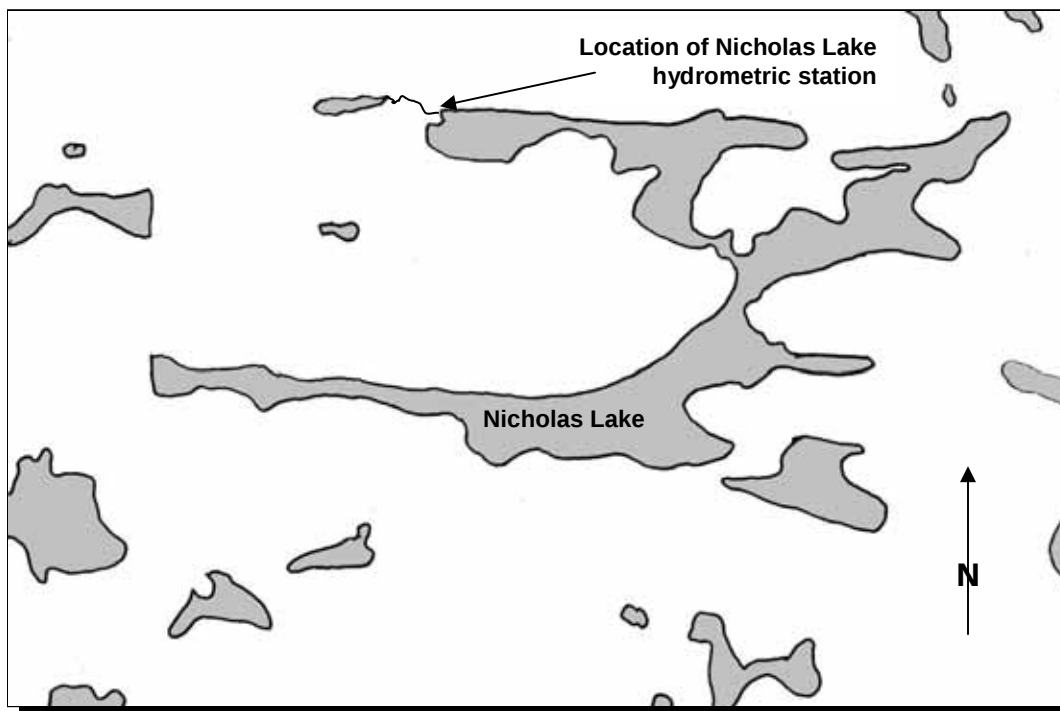
3.0 INSTRUMENTATION

The hydrometric station installed at this site includes a water level and temperature sensor and a data logger which records data at 15 minute intervals. A staff gauge is located at the cross section where the creek is gauged, just upstream of the station.

4.0 SPECIFICATIONS

Equipment Specifications		
2434009		Pressure Transducer / Data Logger Serial Number
1000.000	m	Sea level, benchmark elevation at the site (assumed)
997.707	m	Sea level, elevation of zero reading on staff gauge (assumed)
2.293	m	Difference in elevation from BM to staff gauge zero reading
2.356	m	Difference in elevation from BM to the pressure transducer
997.645	m	Transducer elevation (assumed)

5.0 MAP OF NICHOLAS LAKE OUTLET HYDROMETRIC STATION



6.0 PHOTOGRAPH OF NICHOLAS LAKE OUTLET HYDROMETRIC STATION



Photo 1

Arial view from Nicholas Lake northwest across site

7.0 SITE PHOTOGRAPHS



Photo 2
Staff gauge and discharge gauging station



Photo 3
Pressure transducer and data logger

8.0 STATION HISTORY

The Nicholas Lake Outlet flow monitoring station was established shortly after the spring thaw in 2004. A staff gauge was installed on the Nicholas Lake outlet on May 31, 2004, and spot measurements of flow and stage were recorded manually.

- July 13, 2005 – an automated stage and temperature recorder was installed at this station. A survey monument was also installed at this site, to provide a known reference point, for elevation surveys of the site instrumentation.
- September 13, 2005 – the instrumentation was removed for the season.
- Spring 2006 – Nicholas Lake Outlet was excluded from the hydrological study for 2006 and no flow data was collected.
- June 10, 2007 – Nicholas Lake Outlet was re-included into the hydrology study for 2007, and instrumentation was re-installed to collect discharge data over the summer of 2007.
- September 30, 2007 – the instrumentation was removed for the season.
- May 26, 2008 - The station was reactivated for the 2008 hydrological study. The hydrometric station instruments were installed in the existing housing at 12:51 hours.
- September 26, 2008 - The instrumentation was removed for the season on at 11:51 AM.
- June 6, 2009 - The hydrometric station was reactivated for the 2009 hydrological study at 13:03 hours. Instrumentation was re-installed to collect discharge data over the summer of 2007. Stage discharge data collected and an elevation survey conducted.
- August 24, 2009 - The station was visited for site inspection, stage discharge data collection, downloading of the station's data and an elevation survey conducted.
- October 9, 2009 - The instrumentation was removed for the season on at 12:33 hours.
- May 28, 2010 - The stage and temperature recorder and data logger were reinstalled in the existing hydrometric housing..
- June 4, 2010 – Site Visit by EBA hydrologist and stage discharge measurements were collected to further enhance the stager discharge relationship. The data logger was downloaded and site maintenance conducted.
- September 16, 2010 - The instrumentation was removed for the season.

ISSUED FOR USE

Site #7: Tyhee - Meteorological Station Site Identification

Site Identification:	Site #7: Tyhee		Installation Date:	Sept 28, 2004
Site GPS Coordinates:	North	63° 11' 6.2"	Tower Height:	10 m
	West	113° 53' 40.2" (NAD 27)	Site elevation above sea level:	300 m
Magnetic Deviation:	22.83°	or TN=337.17°	North alignment pole set to	337.2°

1.0 STATION LOCATION

The station was installed at a site overlooking Giauque Lake to the east. It is located about 50 metres to the east of the north end of the Tyhee airstrip and just southeast of the old Discovery Mine site. The elevation of the station is 300 metres asl.

2.0 SITE DESCRIPTION

The weather station consists of a standard 10 metre meteorological tower with instrumentation to measure wind speed and direction, air temperature, relative humidity, barometric pressure, and incident solar radiation, an all-weather precipitation gauge and an evaporation pan. The station is powered by a 12 Vdc 8 Ahr battery with a 20-watt solar panel for charging. Data is recorded to a Campbell Scientific CR10X data logger. The data collection cycle is 5 seconds and the data is averaged over a 15 minute archiving period and saved to the logger memory. Station memory capacity exceeds one year of data at the current sampling rate.

3.0 INSTALLATION NOTES

The tower base supports are fixed to a 1 cubic metre block of concrete. The tower legs are bolted to the base supports. Three guy lines secure the top of the tower and prevent the tower from swaying under high winds. The wind anemometer is located near the top of the tower, just below the lightning rod. The remaining instrumentation is located near the base.

The precipitation gauge is located 5 metres southeast from the tower. It is mounted on a concrete slab to enable support of the tipping bucket rain gauge and the alter wind screen. The support table for the evaporation pan is located beside the precipitation gauge.

4.0 RECORDED DATA

The two tables below show examples of the data collected every 15 minutes, as well as a 24 hour summary of the daily maximums and minimums and information on the status of the data logger and the battery.

Site #7: Tyhee - Meteorological Station Site Identification

ISSUED FOR USE

15 Minute Record

Date / Time	Wind Speed (m/s)	Wind Dir (degrees)	SD Wind dir (degrees)	Air Temp (°C)	Relative Humidity (%)	Barometric Pressure (hPa)	Precipitation (mm)	Pyranometer (W/m2)
Sep. 21/07 11:00	2.947	290.5	10.28	-0.942	93.9	1008.9	0	98.2
Sep. 21/07 11:15	2.348	289.7	12.79	-0.884	94.1	1009	0.254	89.2
Sep. 21/07 11:30	2.369	300	10.36	-0.775	93.7	1008.8	0.508	120.6
Sep. 21/07 11:45	2.01	298.3	13.13	-0.547	92.6	1008.8	0	151.9

Daily Summary

Date	Speed	Daily Barometric Pressure			Precipitation	Daily Relative humidity			Daily Air Temperature			Pyranometer
	Max (m/s)	Mean (hPa)	Max (hPa)	Min (hPa)	(mm/day)	Mean (%)	Max (%)	Min (%)	Mean (%)	Max (%)	Min (%)	(W/m2)
May 23/2007	8.02	1025	1027	1022	0.762	64.71	92.2	33.64	3.786	11.62	-3.771	915
May 24/2007	10.47	1019	1023	1015	0.508	49.53	76.5	32.49	9.47	16.51	-0.063	787
May 25/2007	11.39	1010	1015	1006	0.508	38.71	63.98	19.75	13.94	19.69	6.32	888
May 26/2007	7.9	1004	1006	1002	0.254	34.86	56.04	20.22	15.76	21.98	8.88	816

Internal Logger Temperature		Battery Voltage	Station ID	Battery Voltage	Low 12Vdc Counts	Program Signature	Watch Dog Errors
Max (°C)	Min (°C)	Min (Vdc)		Min (Vdc)			
12.72	-5.116	12.81	2	3.134	0	1168	0
17.29	-1.775	12.76	2	3.134	0	1168	0
20.28	4.066	12.74	2	3.134	0	1168	0
22.81	8.21	12.76	2	3.134	0	1168	0

5.0 METEOROLOGICAL STATION INSTRUMENTATION PARAMETERS

Instrument	Model	Measuring Range	Sensitivity/Accuracy
Wind Monitor	05103AP-10 R.M. Young	0 to 60 m/s 0 to 100 m/s gusts	Accuracy ± 0.3 m/s Threshold wind = 1.0 m/s
		0 to 355 degrees	$\pm 1.4^\circ$
Relative Humidity /Air Temperature Probe	HMP45C212-L Vaisala	Relative Humidity 0.8 to 100% non-condensing	Accuracy at 20°C $\pm 2\%$ RH (0-90% RH) $\pm 3\%$ RH (90-100% RH)
		Air Temperature -50° to +50°C	Accuracy at 20°C $\pm 0.2^\circ\text{C}$

ISSUED FOR USE

Site #7: Tyhee - Meteorological Station Site Identification

Instrument	Model	Measuring Range	Sensitivity/Accuracy
Barometric Pressure Sensor	61205V R.M. Young	600 – 1100 hPa (mb)	±0.1 hPa (mb)
Pyranometer	CM3-L Kipp & Zonen	Spectral Waveband. 305-2800 nm	2.5% Non linearity (at 1000 W/m ²) 1.0% Non stability (% change/year)
All-Weather Precipitation Gauge	TE525WS CS705 Alter Screen 51	Each tip of the bucket is 0.254 mm of precipitation	<10 mm/hr ±1.0% 10-20 mm/hr -3.0% 20-30 mm/hr -5.0%

5.1 Wind Speed and Direction Monitor

The Model 05103-10-L wind speed and direction monitor is manufactured by R.M. Young. It is composed of a four-blade propeller mounted on a torpedo-shaped wind vane. Rotation of the propeller produces an alternating current with a frequency that is directly proportional to the wind speed. Wind direction is sensed by a potentiometer that is excited by an applied voltage. The potentiometer produces a voltage that is directly proportional to the azimuth angle. Wind data are collected every five seconds and the mean wind vector magnitude and direction are calculated and stored at 15-minute intervals. The standard deviation of wind direction is also computed and indicates the variability of wind direction over the archiving period.

5.2 Temperature and Relative Humidity Probe

The HMP25C212-L relative humidity and air temperature probe contains a Vaisala capacitive relative humidity sensor and a YSI 44212 thermistor. Both sensors are enclosed in a 10-plate gill radiation shield designed to shield the sensors from rainfall and solar radiation.

5.3 Barometric Pressure Sensor

A 61205V barometric pressure sensor is enclosed inside the data logger housing. A hydrophobic filter and entry seal prevents moisture and insects from entering the housing, while allowing the inside of the housing to maintain atmospheric pressure.

5.4 Pyranometer

A pyranometer is a device used to measure incident solar radiation. The CM3 Kipp & Zonen pyranometer consists of a thermopile sensor coated with a black absorbent coating, which converts the incident solar radiation to heat. The resultant temperature difference is converted to a voltage by a copper-constantan thermocouple. The thermopile is encapsulated inside the pyranometer's glass dome such that it has a field of view of 180 degrees. It has a flat spectral sensitivity between 300 and 3000 nm.

5.5 All-Weather Precipitation Gauge

The all-weather precipitation gauge consists of 3 devices. These are a tipping bucket for the measurement of water equivalent precipitation, a precipitation adaptor to convert snowfall to water, and a device to ensure catchment of all snow and rainfall.

The TE525WS is an adaptation of the standard US Weather Bureau tipping bucket rain gauge. The output is a switch closure for each bucket tip. Each tip represents 0.254 mm of water equivalent precipitation.

To enable the TE525WS gauge to measure snowfall a CS705 precipitation adaptor is mounted on top of the tipping bucket rain gauge. The CS705 consists of a catch tube, antifreeze reservoir and overflow tube. Snow is captured in the catch tube and melts into the antifreeze solution contained in the reservoir and as the snow melts the level in the reservoir rises causing the water antifreeze mix to flow through the overflow tube onto the tipping bucket, thereby measuring the quantity of precipitation.

The Alter windscreen is to prevent snow and rain from blowing past the rain gauge catch tube during periods of high wind velocities. The Alter windscreen prevents strong updrafts and induces turbulence around the rain gauge catch tube. This aids in reducing airflow streams over the rain gauge resulting in better collection of precipitation during windy periods and, therefore, increasing the accuracy of the precipitation measurements.

5.6 Data Storage

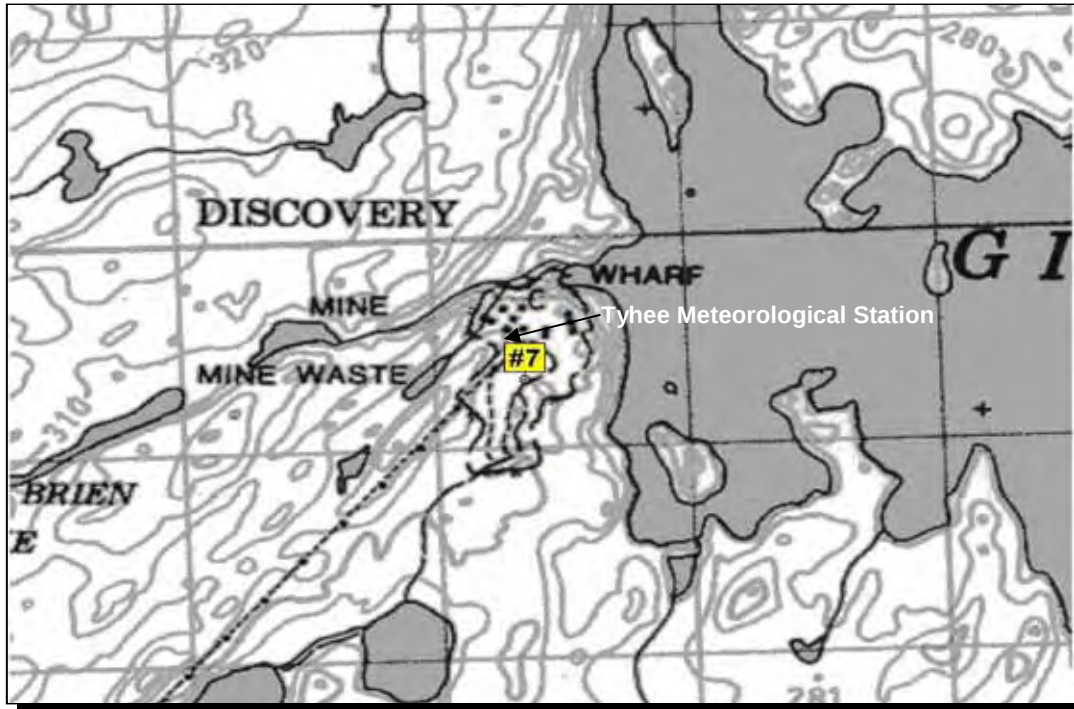
Data are recorded to a Campbell Scientific CR10X-2M data logger. The archiving interval for all parameters, except evaporation, is 15 minutes but this can be adjusted to suit specific data collection requirements. At a 15-minute sample frequency, the station will log up to one year of data before filling the memory. Meteorological data on all instruments are collected at 5-second intervals, then averaged over the archiving period and saved to the logger memory.

At the conclusion of each 24-hour period a daily summary of the meteorological data is saved to the logger memory. Other variables, which are indicative of the status of the meteorological station, such as battery power, internal temperatures and low voltage counts are also saved. Refer to the site description document in Appendix A for further information on the daily summary.

5.7 Station Power

The meteorological station is powered by a 12 V DC battery, a 20 watt solar panel and a charge regulator, all of which are attached to the 10 m tower. With this power configuration the station can run unattended for more than a year.

6.0 MAP OF TYHEE METEOROLOGICAL STATION



Map 1

Map of Tyhee Meteorological Station

7.0 PHOTOGRAPH OF WINTER LAKE OUTLET HYDROMETRIC STATION

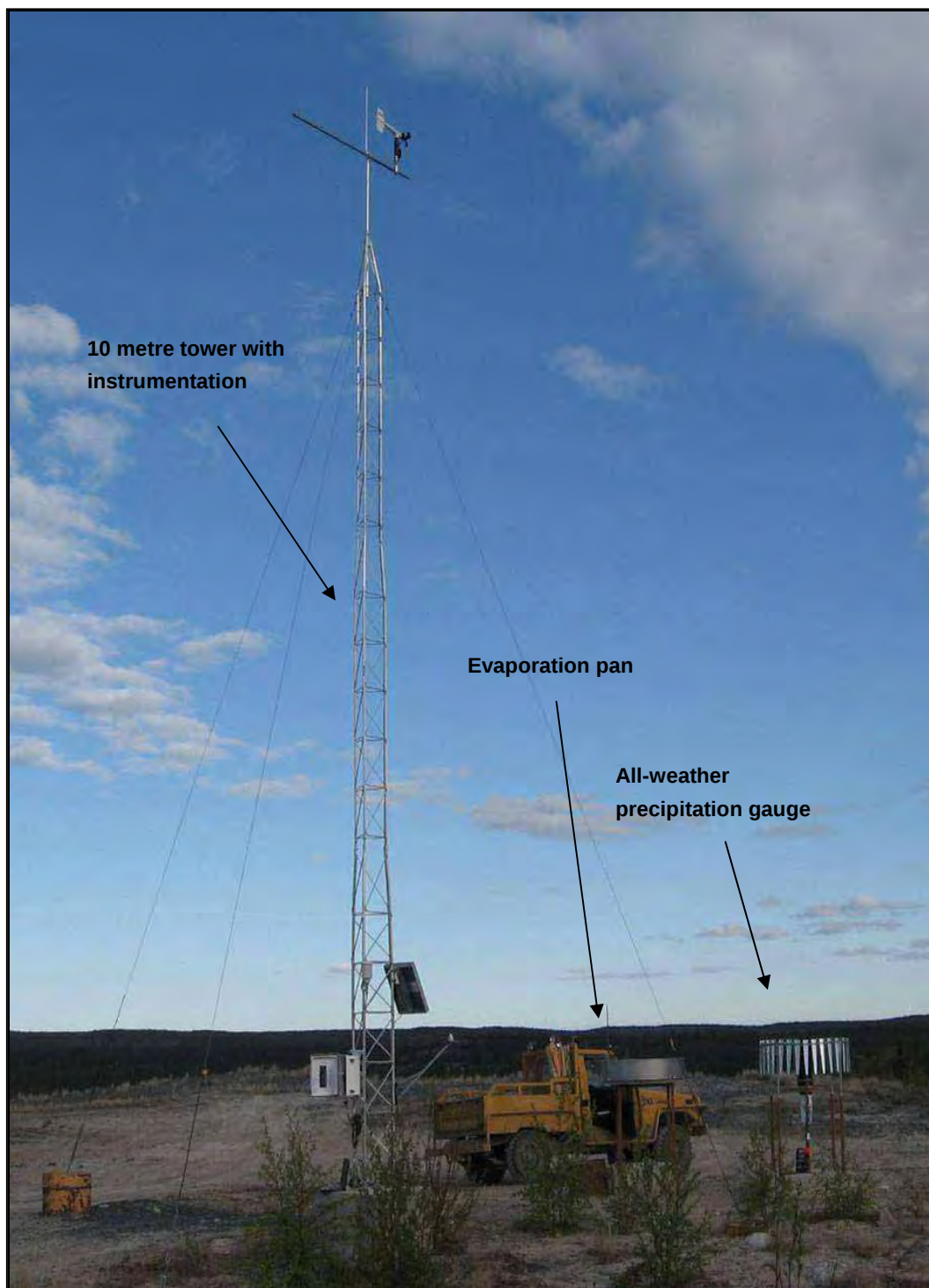
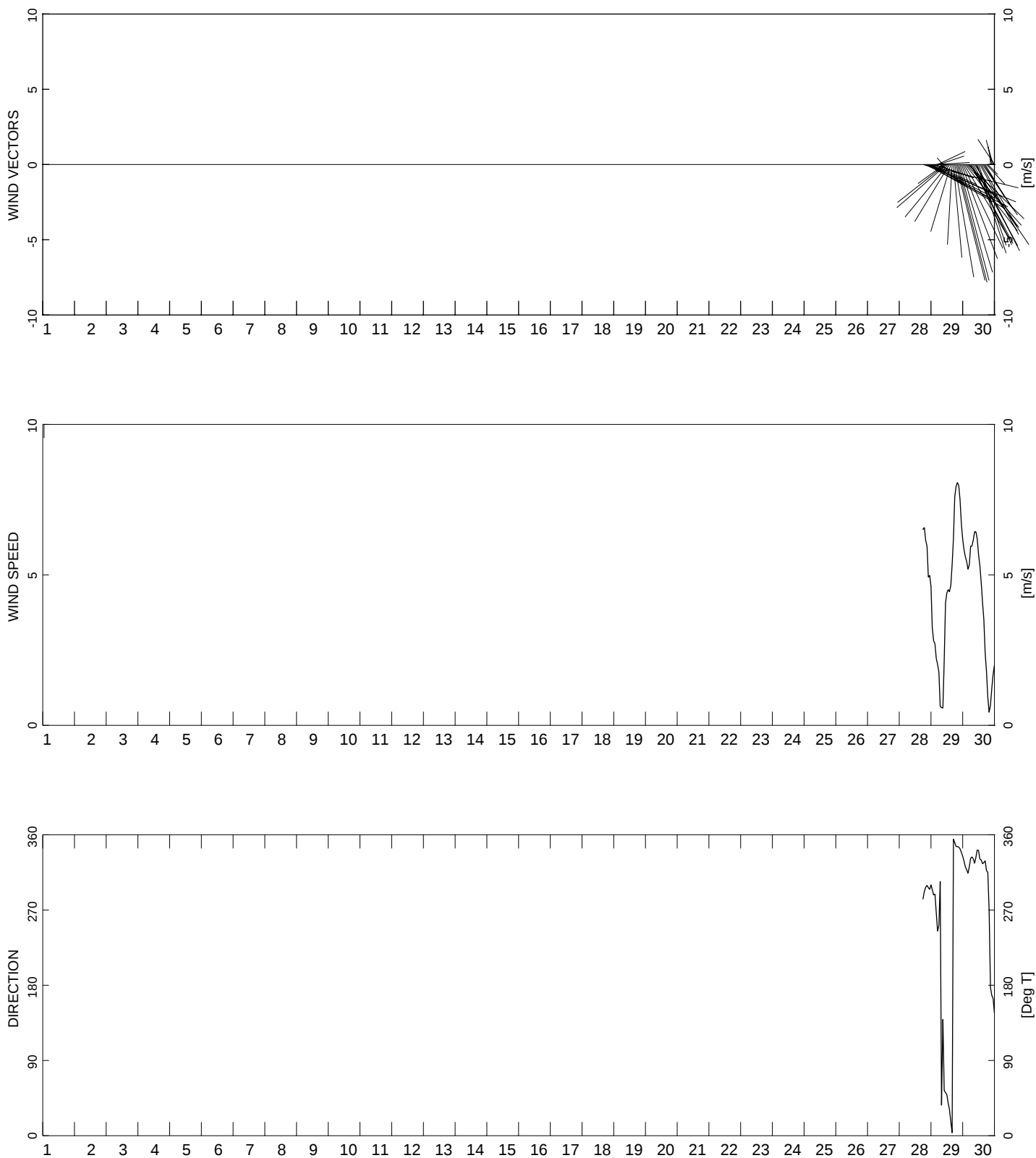


Photo 1

Site #7: View of the Tyhee Meteorological Station

APPENDIX B

APPENDIX B MONTHLY WIND SUMMARIES



NOTES

CLIENT



**EBA Engineering
Consultants Ltd.**



YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Data
September 2004**

PROJECT NO.
Y22101057

DWN
RED

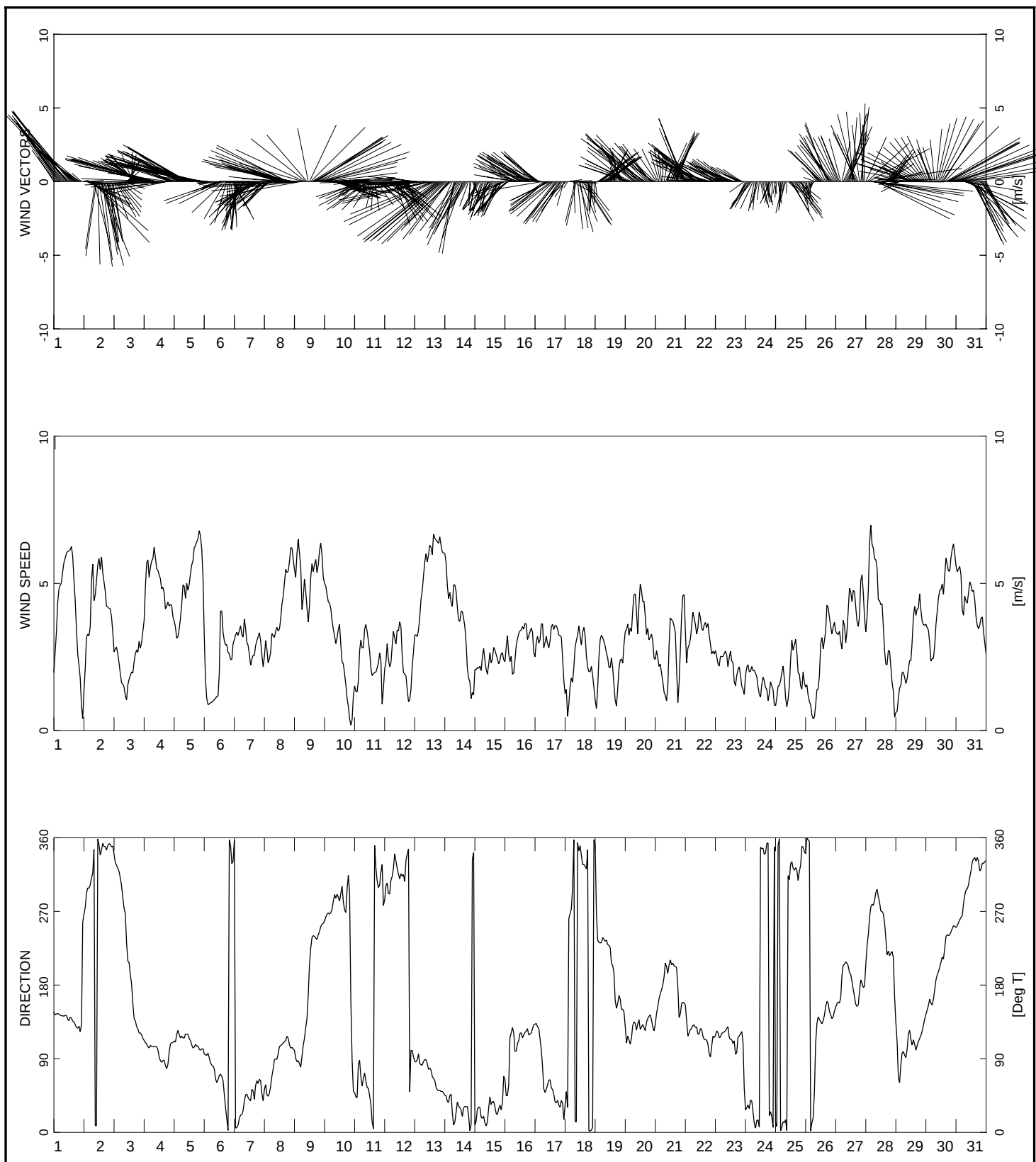
CHK
JAS

REV
0

OFFICE
EBA-VANC

DATE
July 2009

Figure B-01



NOTES

CLIENT



EBA Engineering Consultants Ltd. 

YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Data
October 2004**

PROJECT NO.

Y22101057

DWN

RED

CHK

JAS

REV

0

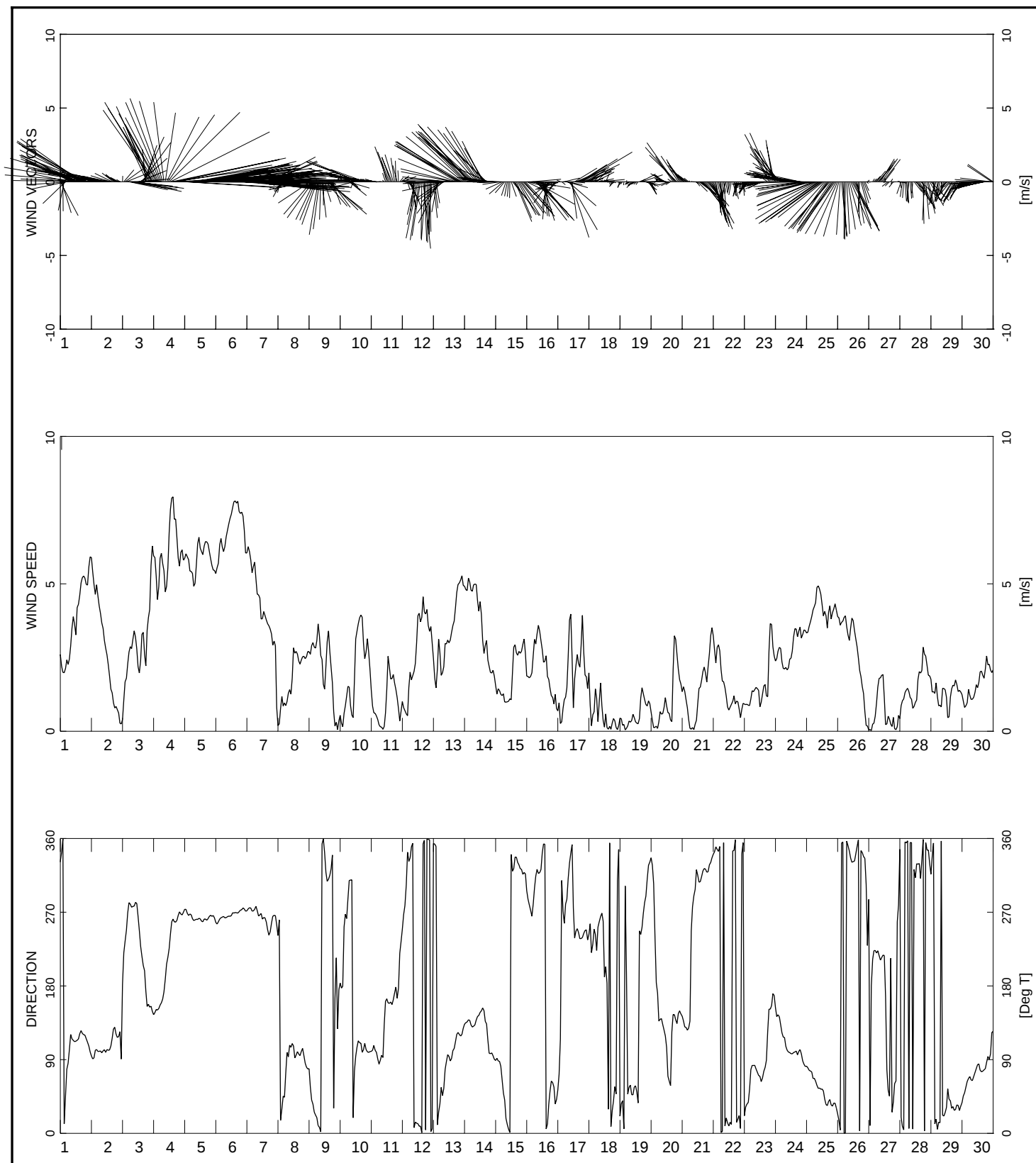
OFFICE

EBA-VANC

DATE

July 2009

Figure B-02



NOTES

CLIENT



EBA Engineering Consultants Ltd. 

YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Data
November 2004**

PROJECT NO.
Y22101057

DWN
RED

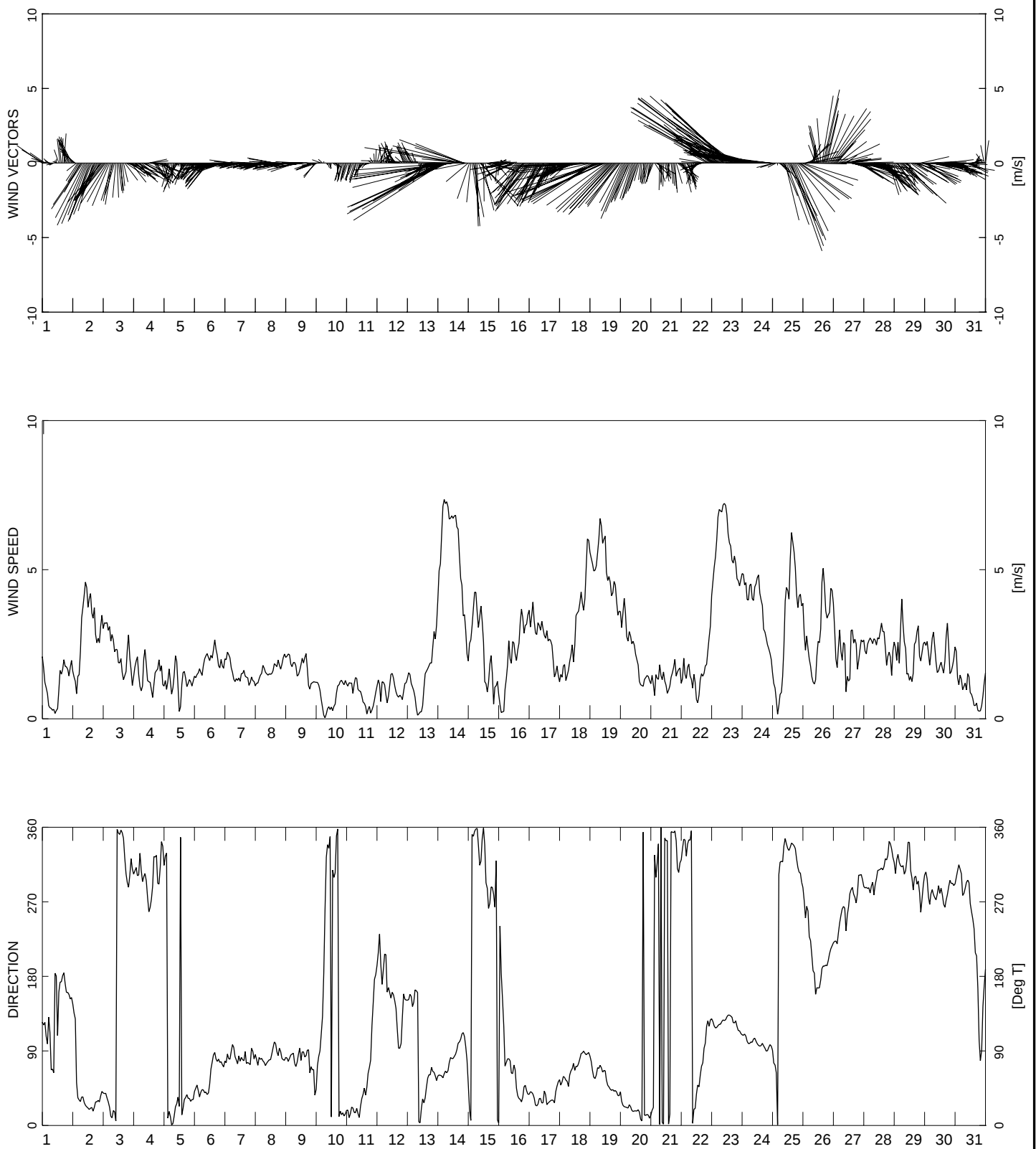
CHK
JAS

REV
0

OFFICE
EBA-VANC

DATE
July 2009

Figure B-03



NOTES

CLIENT



EBA Engineering Consultants Ltd. 

YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Data
December 2004**

PROJECT NO.
Y22101057

DWN
RED

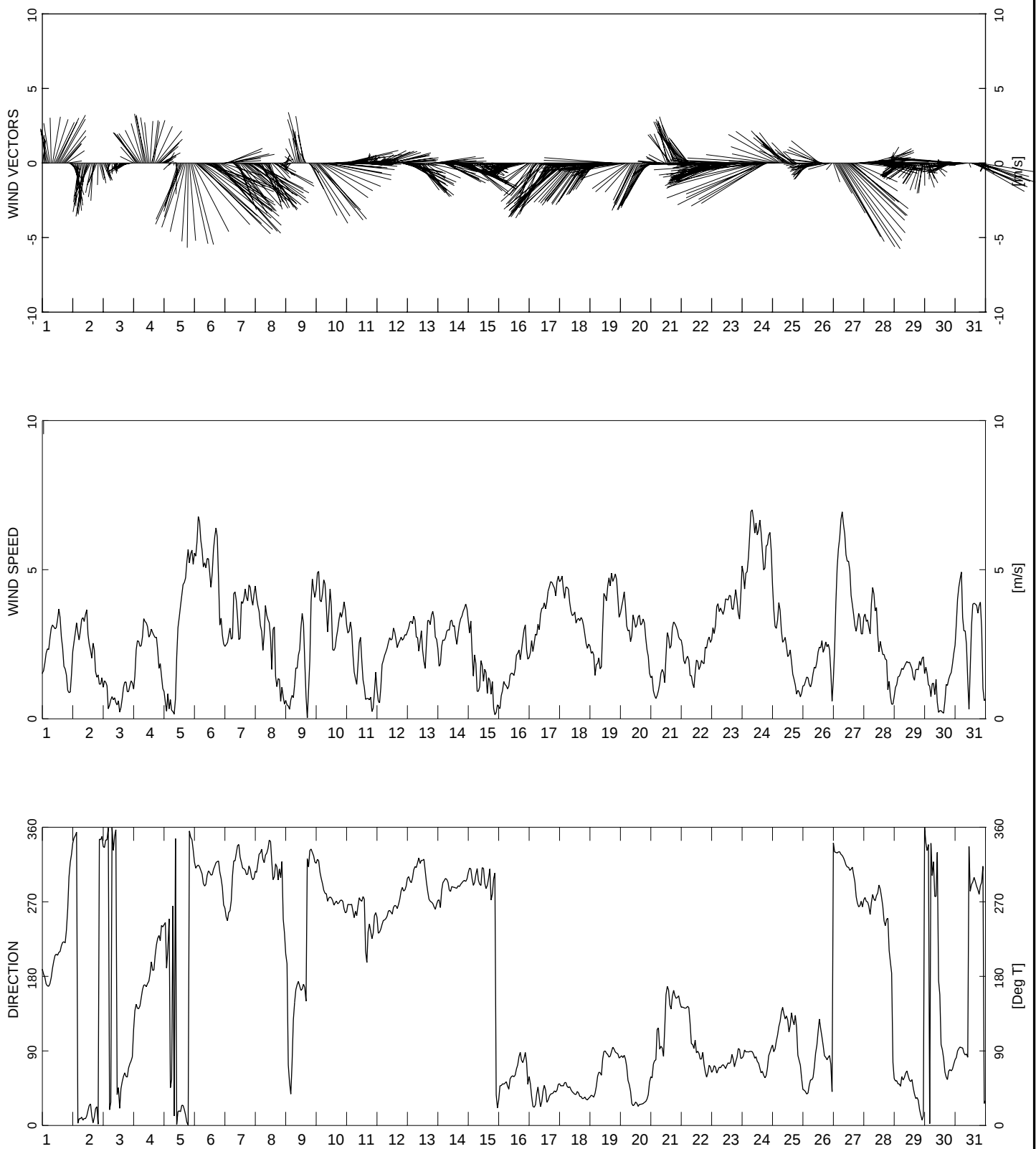
CHK
JAS

REV
0

OFFICE
EBA-VANC

DATE
July 2009

Figure B-04



NOTES

CLIENT



EBA Engineering
Consultants Ltd.



YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Data
January 2005**

PROJECT NO.
Y22101057

DWN
RED

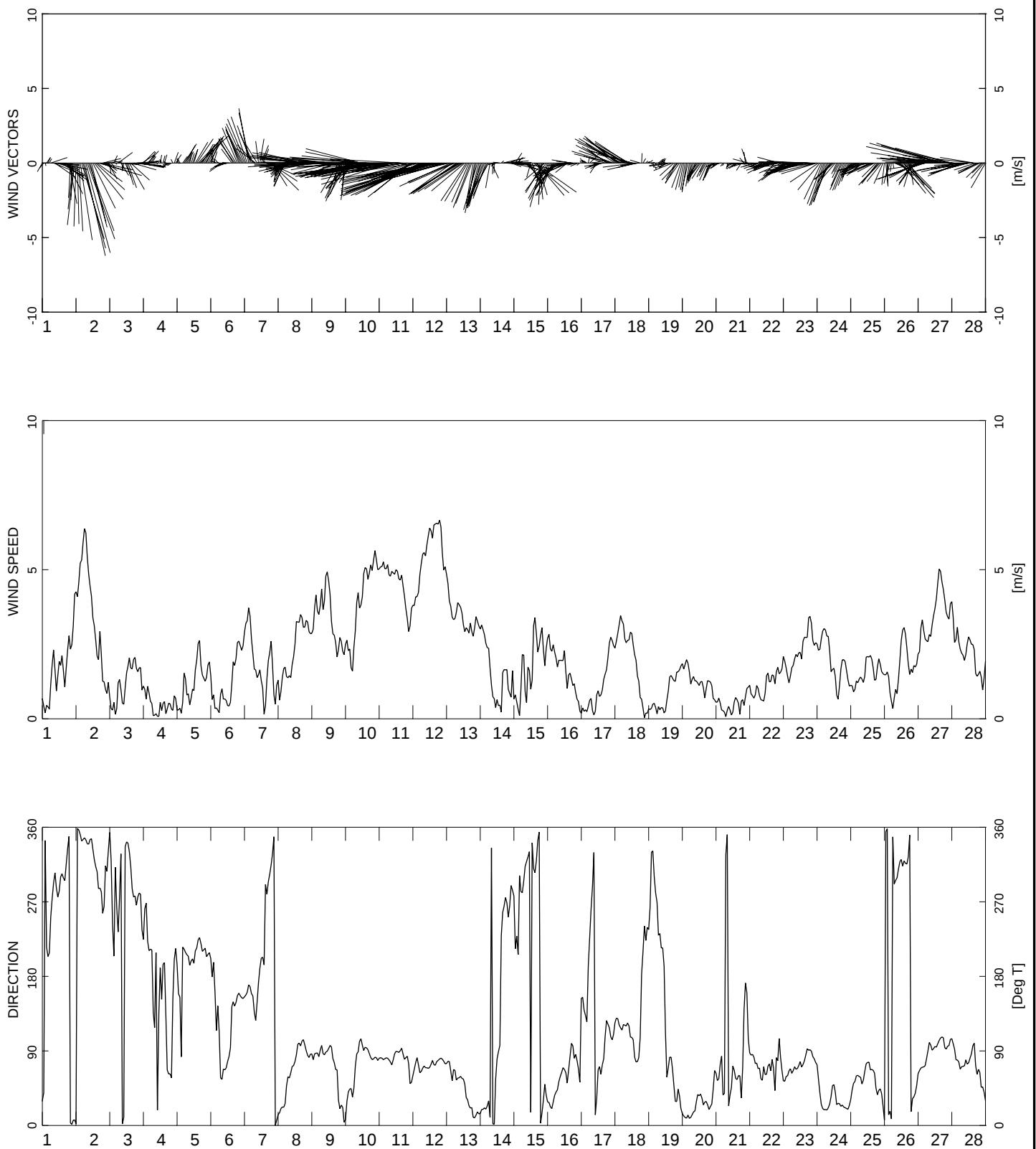
CHK
JAS

REV
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Figure B-05



NOTES

CLIENT



EBA Engineering Consultants Ltd. 

YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Data
February 2005**

PROJECT NO.
Y22101057

DWN
RED

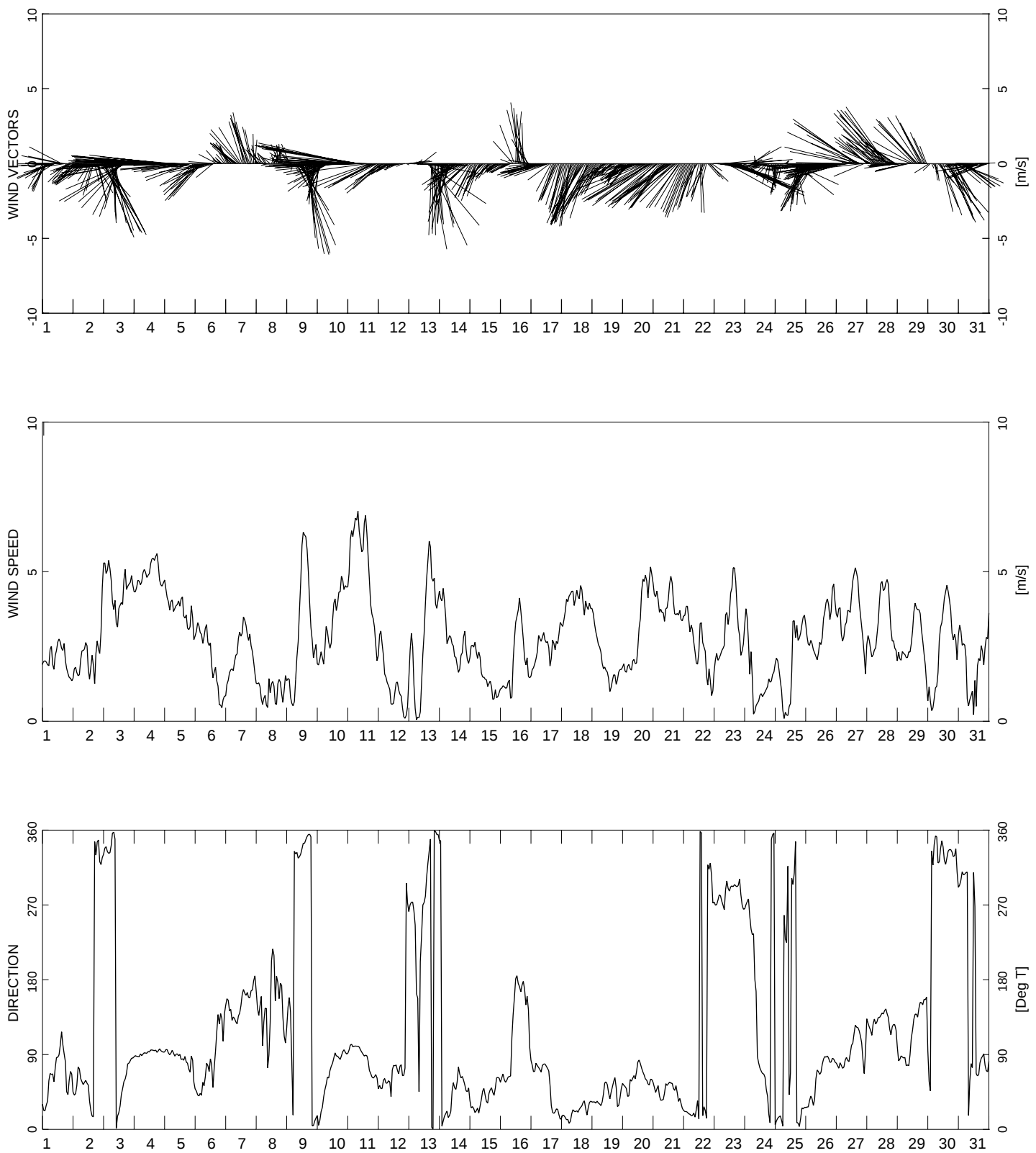
CHK
JAS

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EBA-VANC

DATE
July 2009

Figure B-06



NOTES

CLIENT



EBA Engineering Consultants Ltd. 

YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Data
March 2005**

PROJECT NO.
Y22101057

DWN
RED

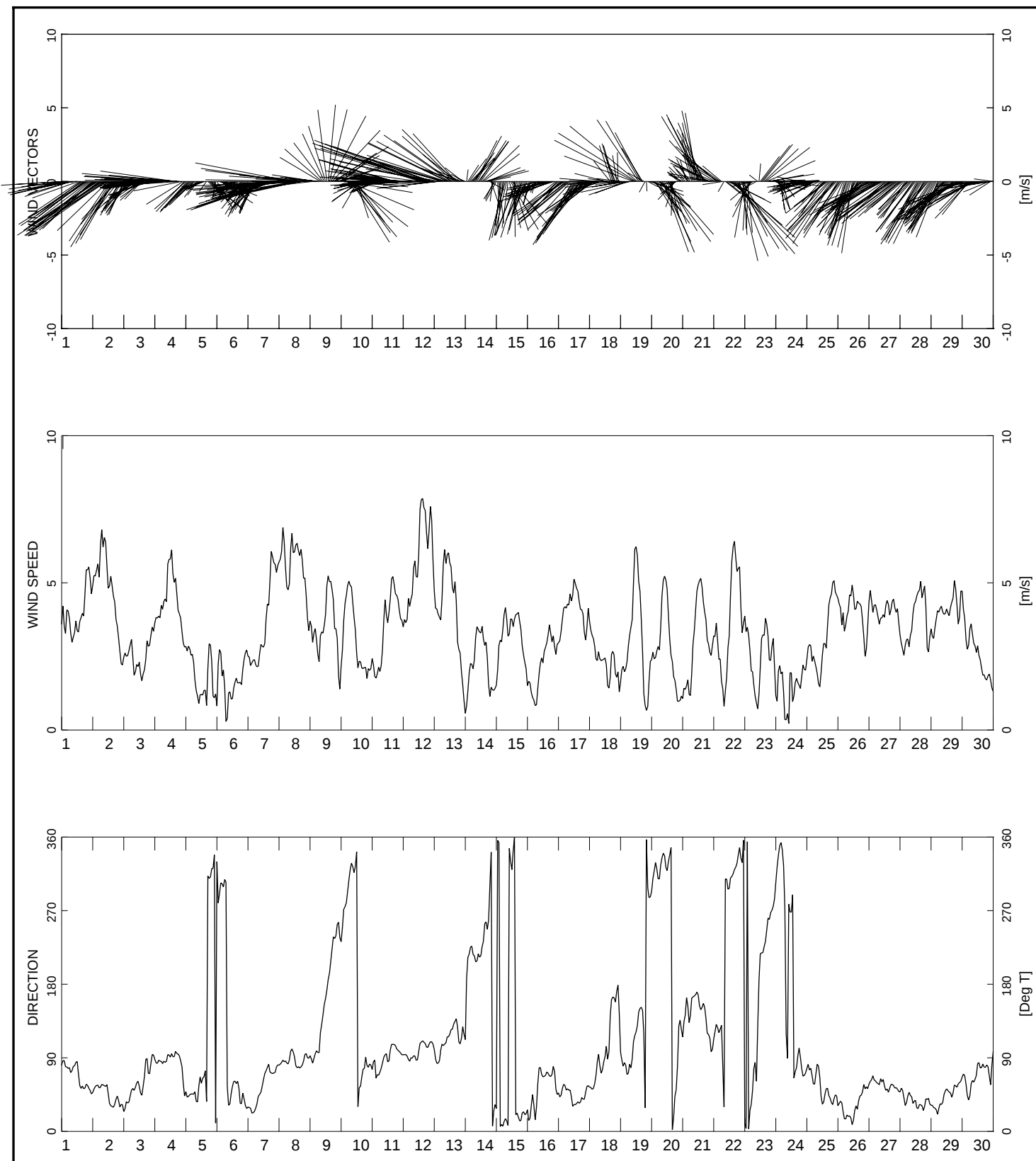
CHK
JAS

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EBA-VANC

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Figure B-07



NOTES

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YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Data
April 2005**

PROJECT NO.
Y22101057

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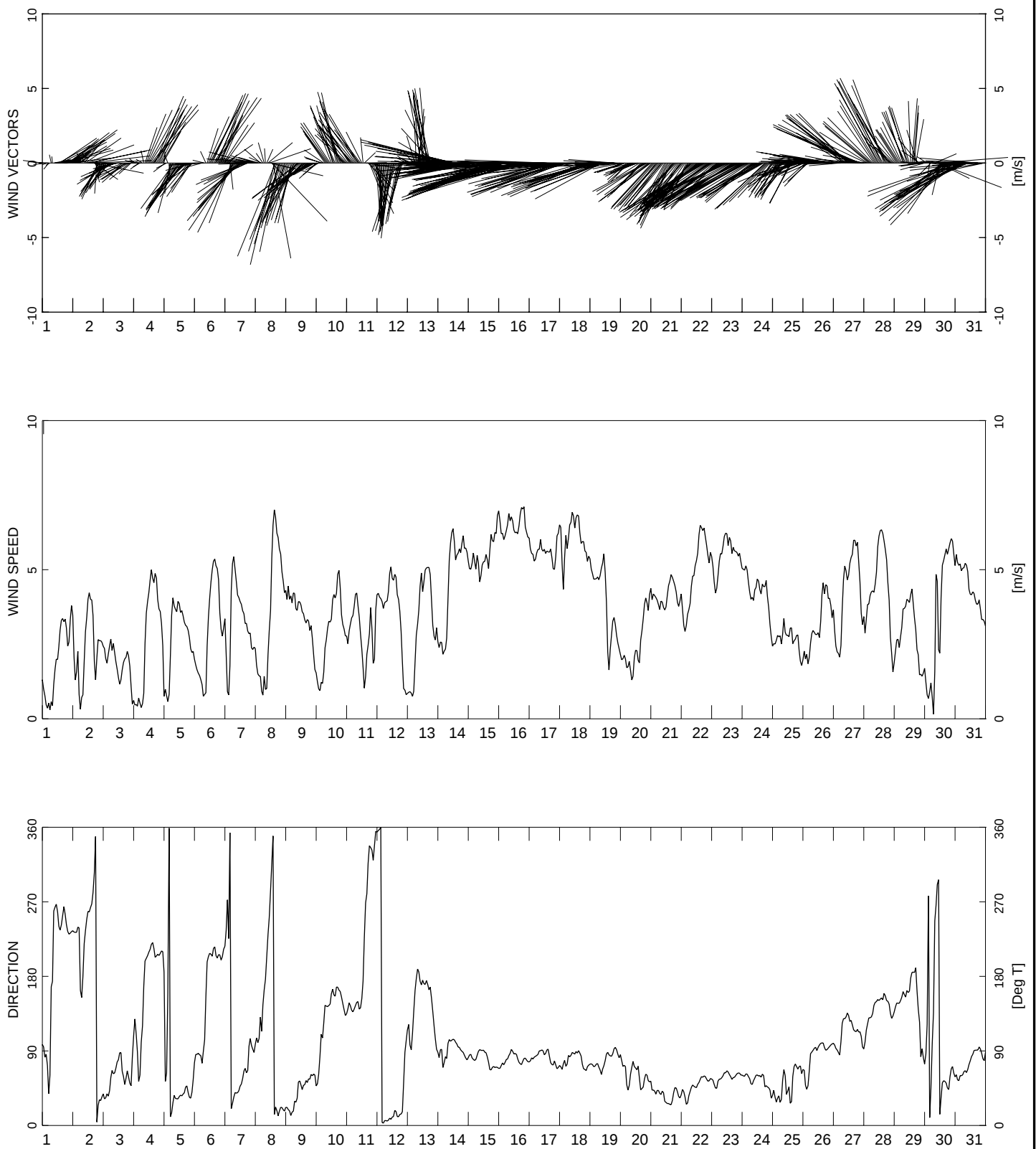
DWN
RED

DATE
July 2009

CHK
JAS

REV
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Figure B-08



NOTES

CLIENT



EBA Engineering Consultants Ltd. 

YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Data
May 2005**

PROJECT NO.
Y22101057

DWN
RED

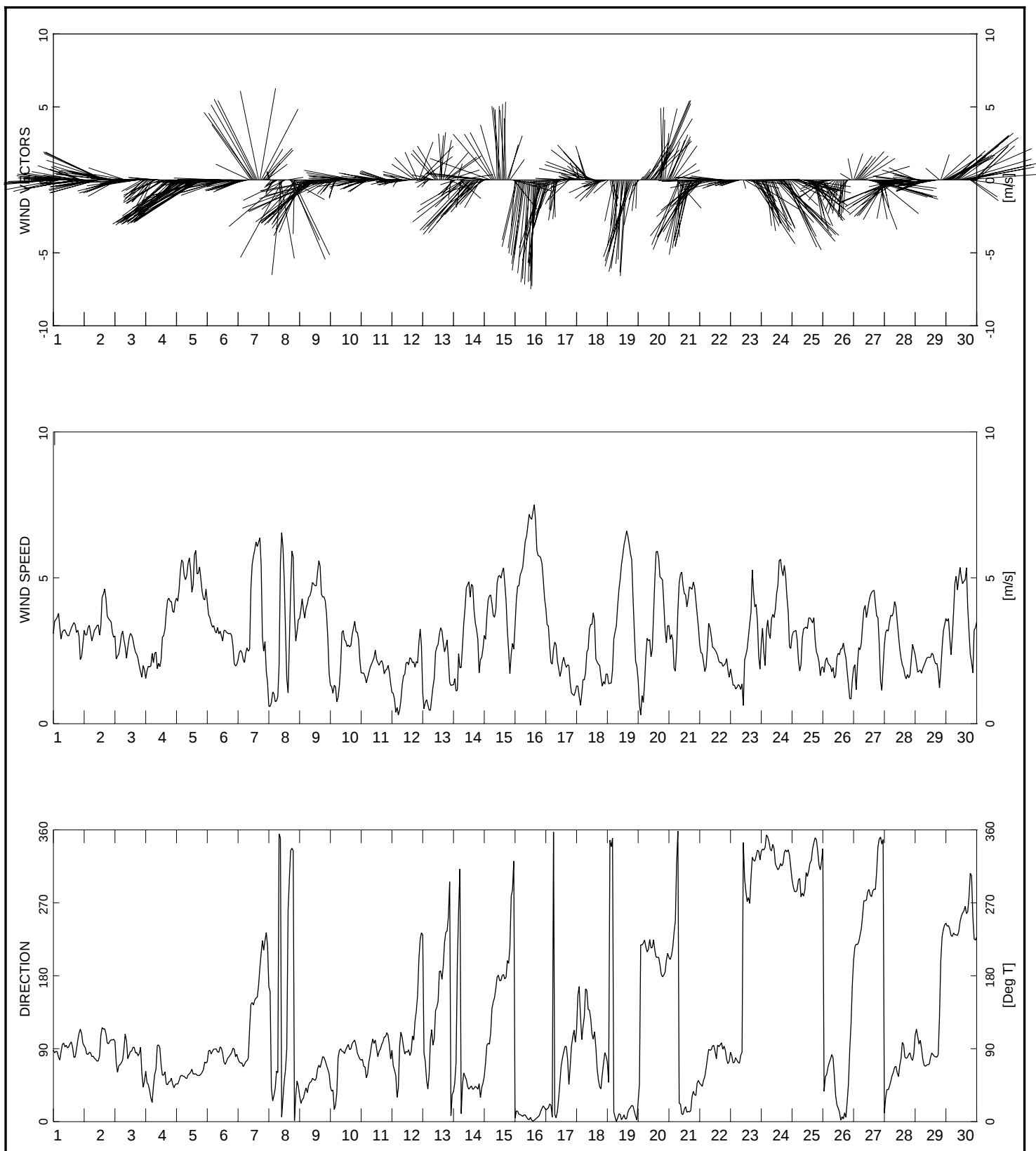
CHK
JAS

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July 2009

Figure B-09



NOTES

CLIENT



EBA Engineering Consultants Ltd. 

YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Data
June 2005**

PROJECT NO.
Y22101057

DWN
RED

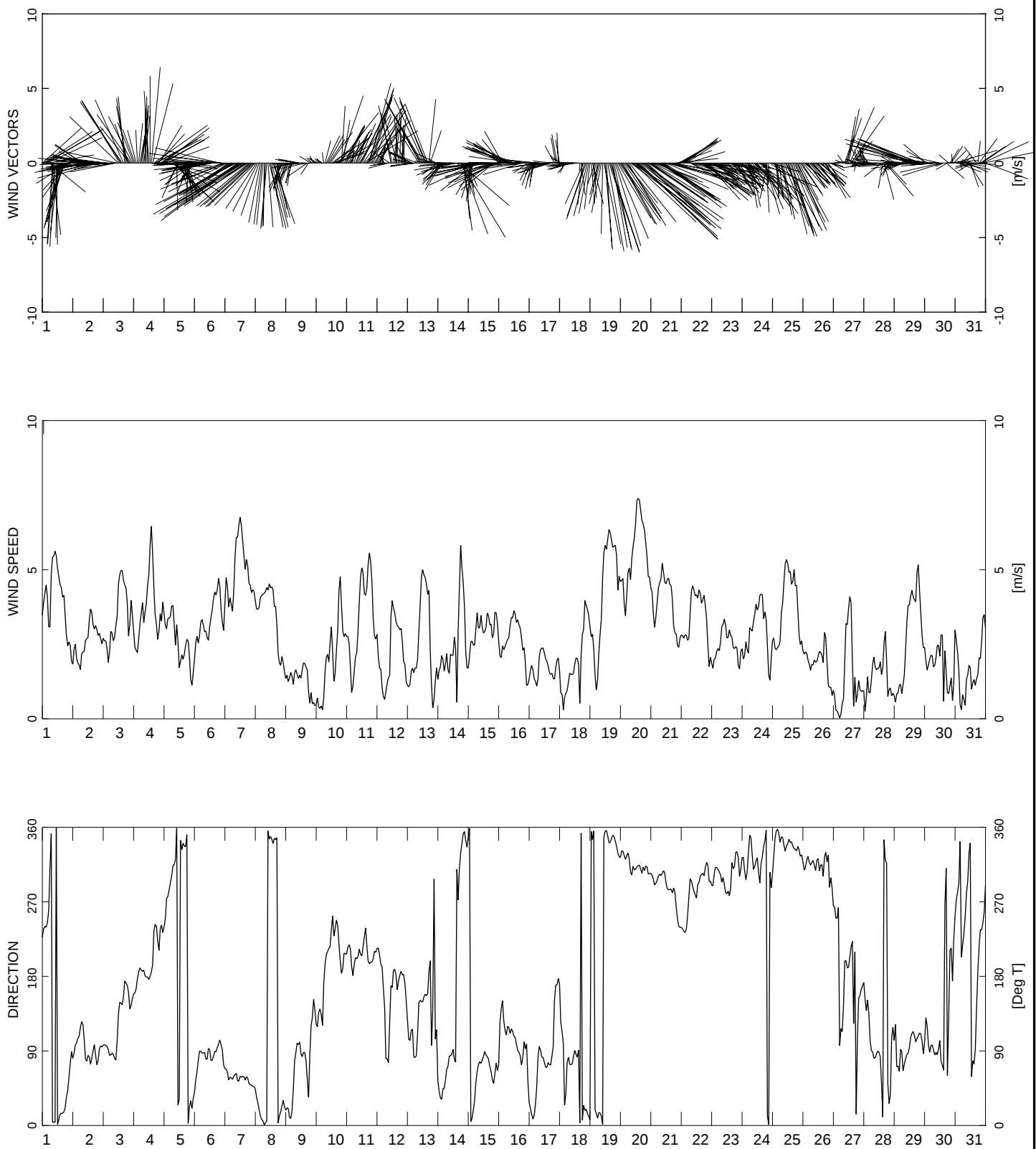
CHK
JAS

REV
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EBA-VANC

DATE
July 2009

Figure B-10



NOTES

CLIENT



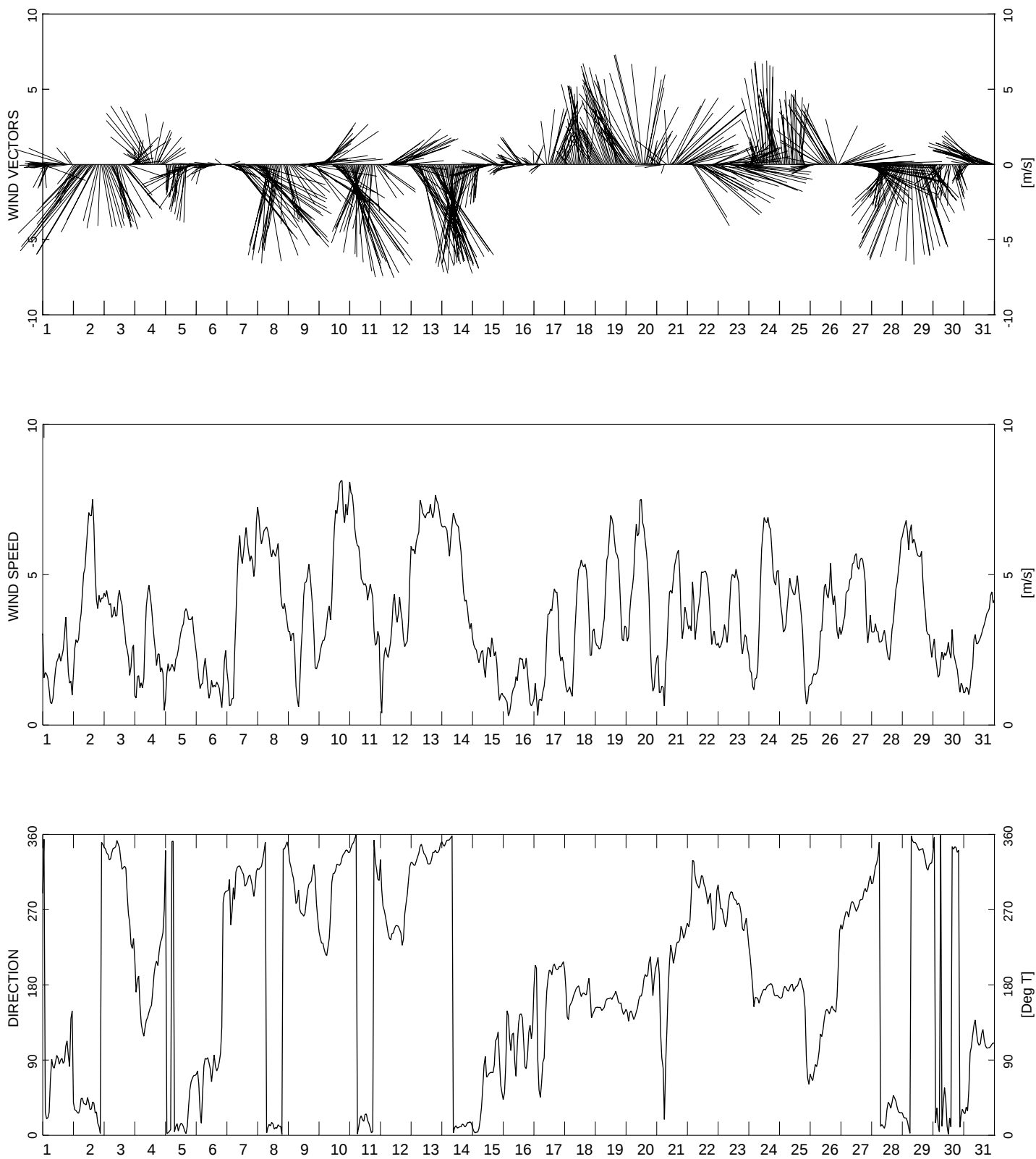
EBA Engineering Consultants Ltd. 

YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Data
July 2005**

PROJECT NO. Y22101057	DWN RED	CHK JAS	REV 0
OFFICE EBA-VANC	DATE July 2009		

Figure B-11



NOTES

CLIENT



EBA Engineering Consultants Ltd. 

YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Data
August 2005**

PROJECT NO.

Y22101057

DWN

RED

CHK

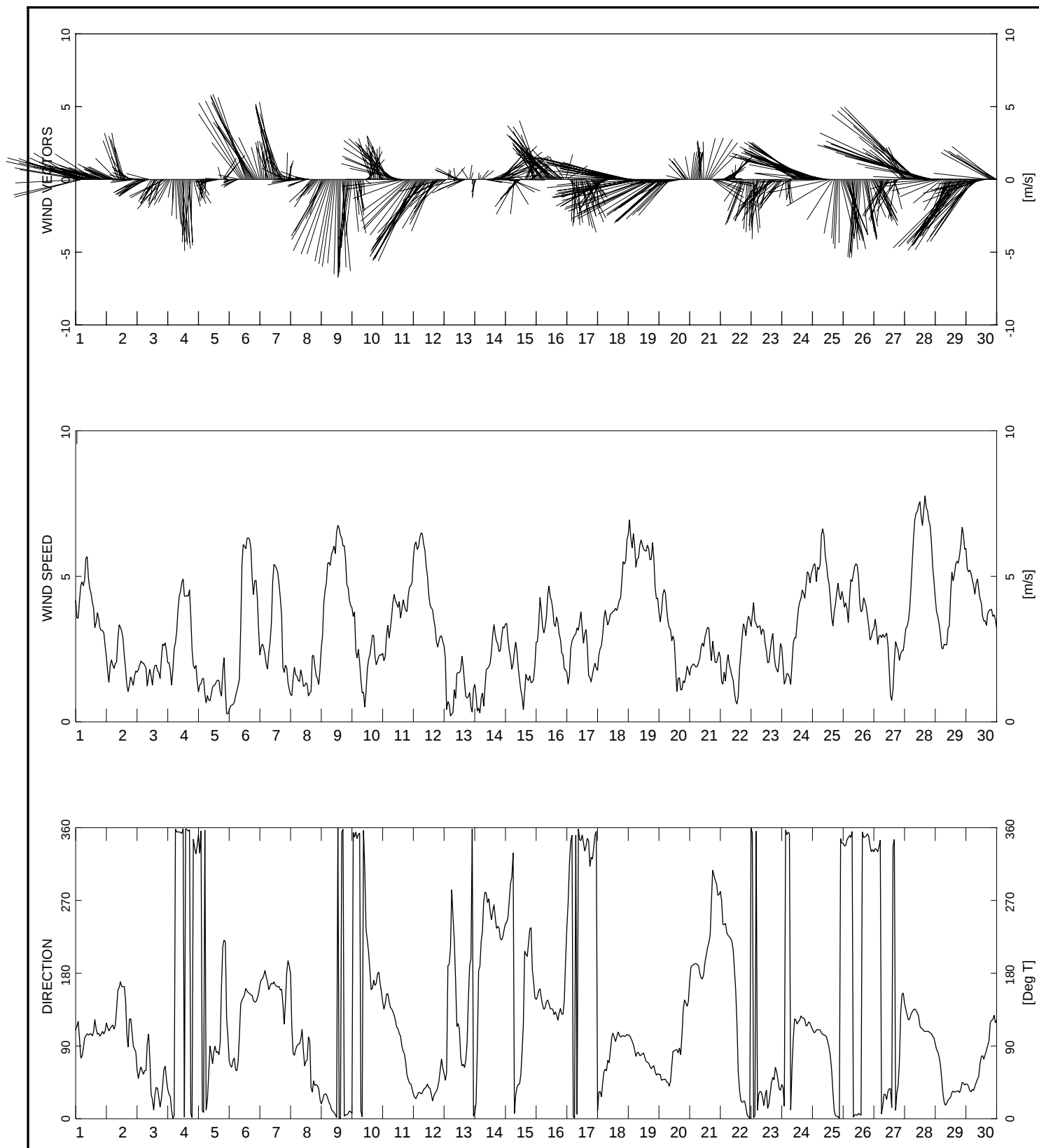
JAS

REV

0

DATE
July 2009

Figure B-12



NOTES

CLIENT



EBA Engineering Consultants Ltd. 

YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Data
September 2005**

PROJECT NO.
Y22101057

DWN
RED

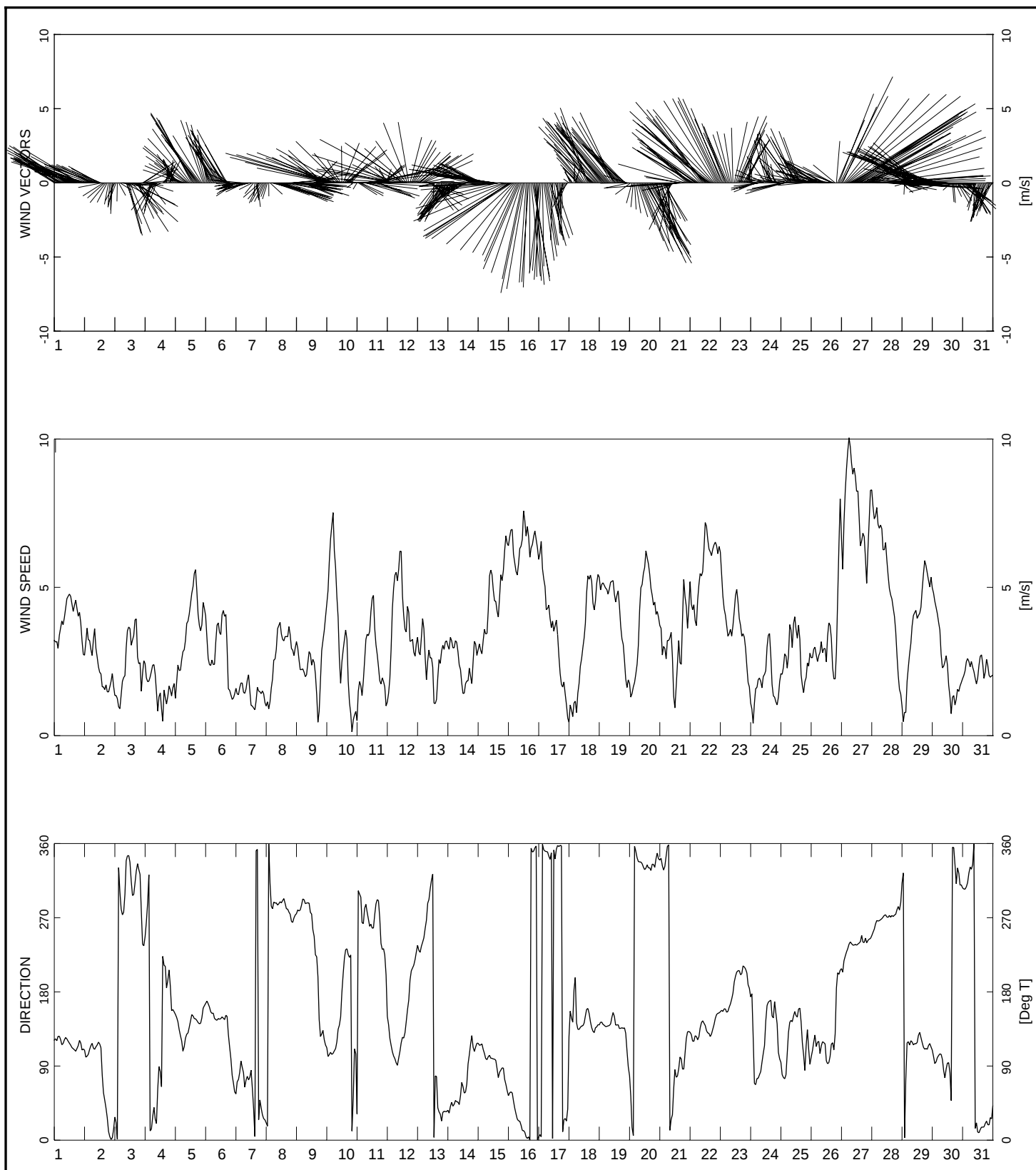
CHK
JAS

REV
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OFFICE
EBA-VANC

DATE
July 2009

Figure B-13



NOTES

CLIENT



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YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Data
October 2005**

PROJECT NO.
Y22101057

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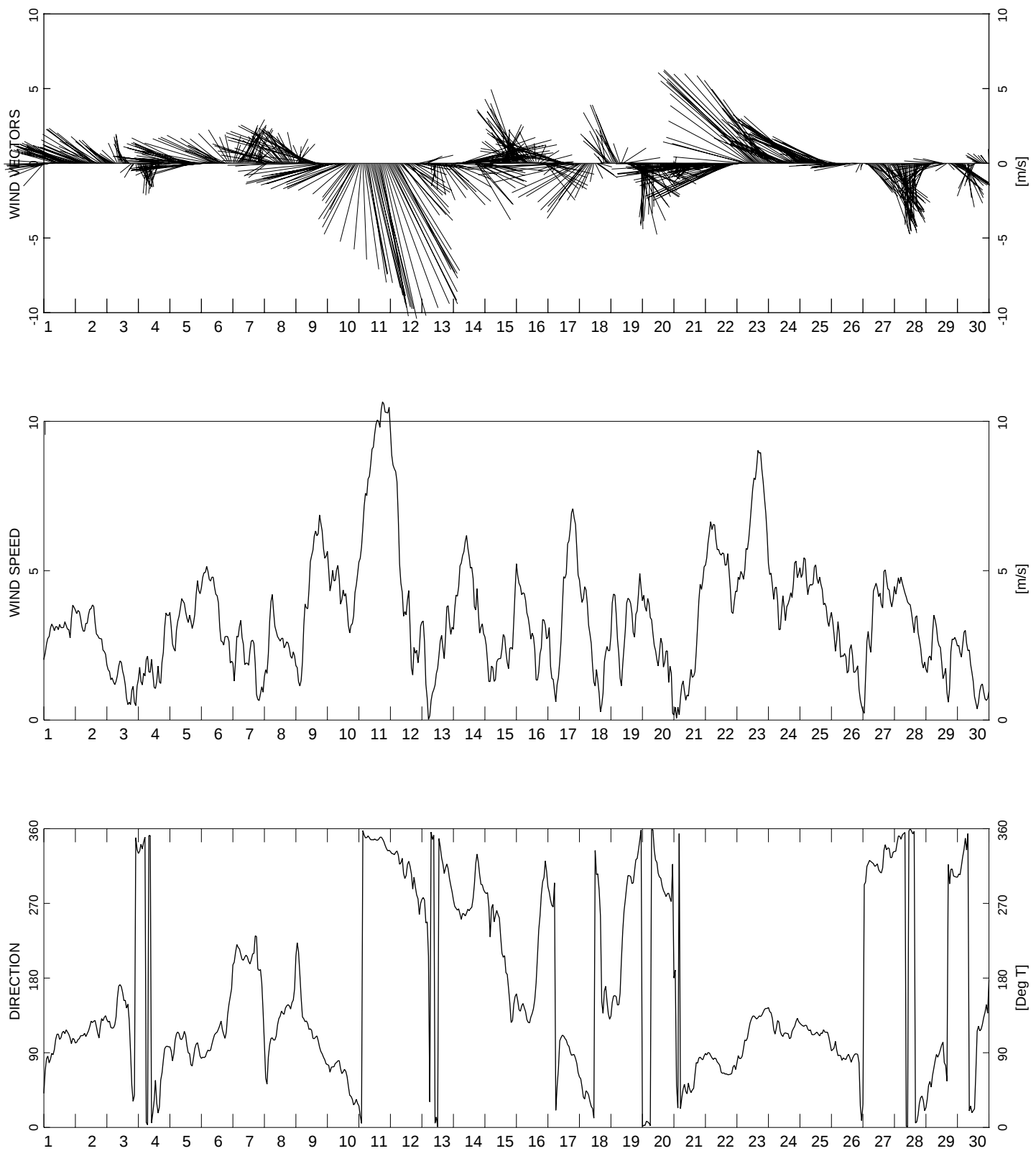
DWN
RED

DATE
July 2009

CHK
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REV
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Figure B-14



NOTES

CLIENT



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YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Data
November 2005**

PROJECT NO.
Y22101057

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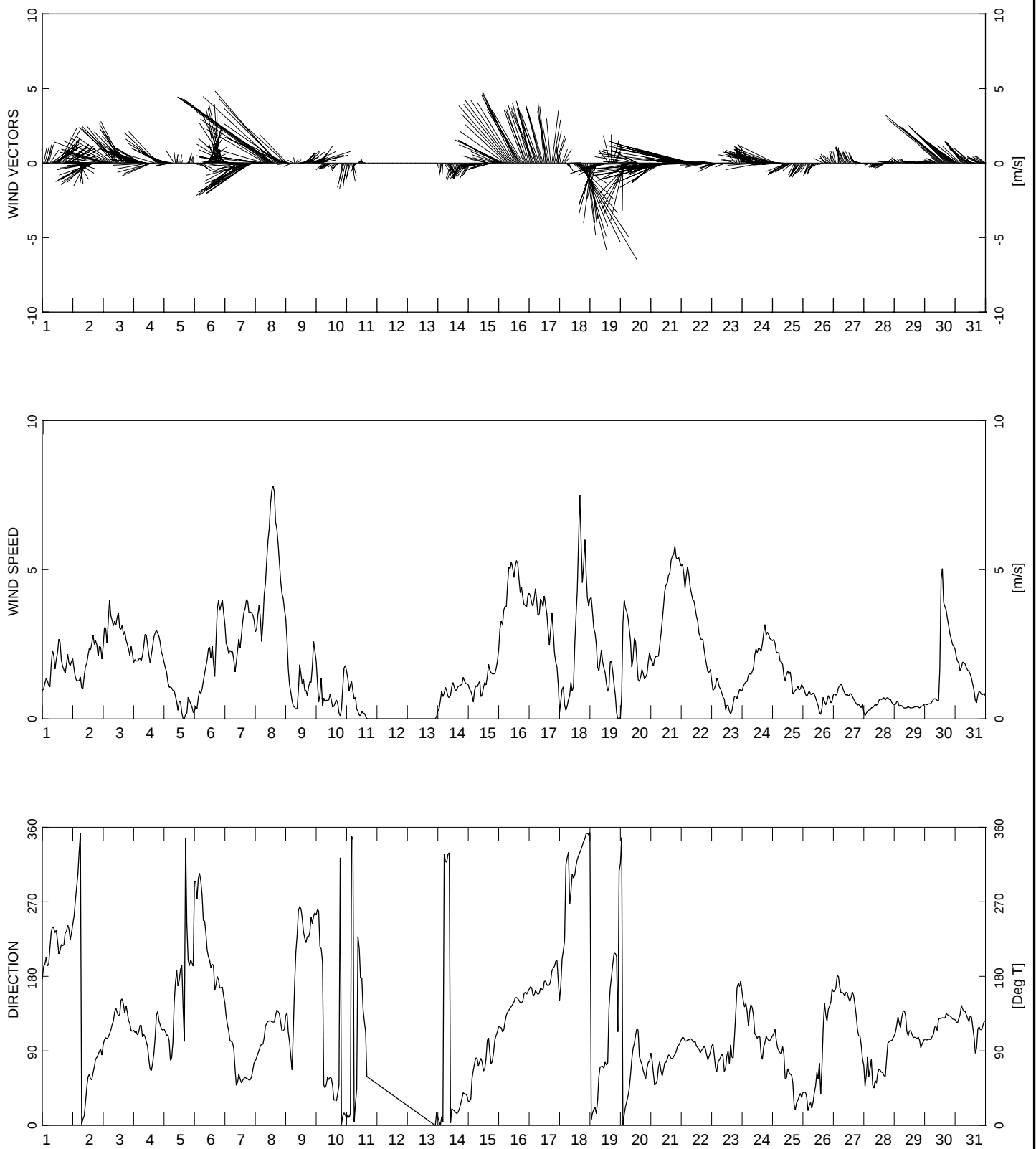
DWN
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July 2009

CHK
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REV
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Figure B-15



NOTES

CLIENT



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YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Data
December 2005**

PROJECT NO.
Y22101057

OFFICE
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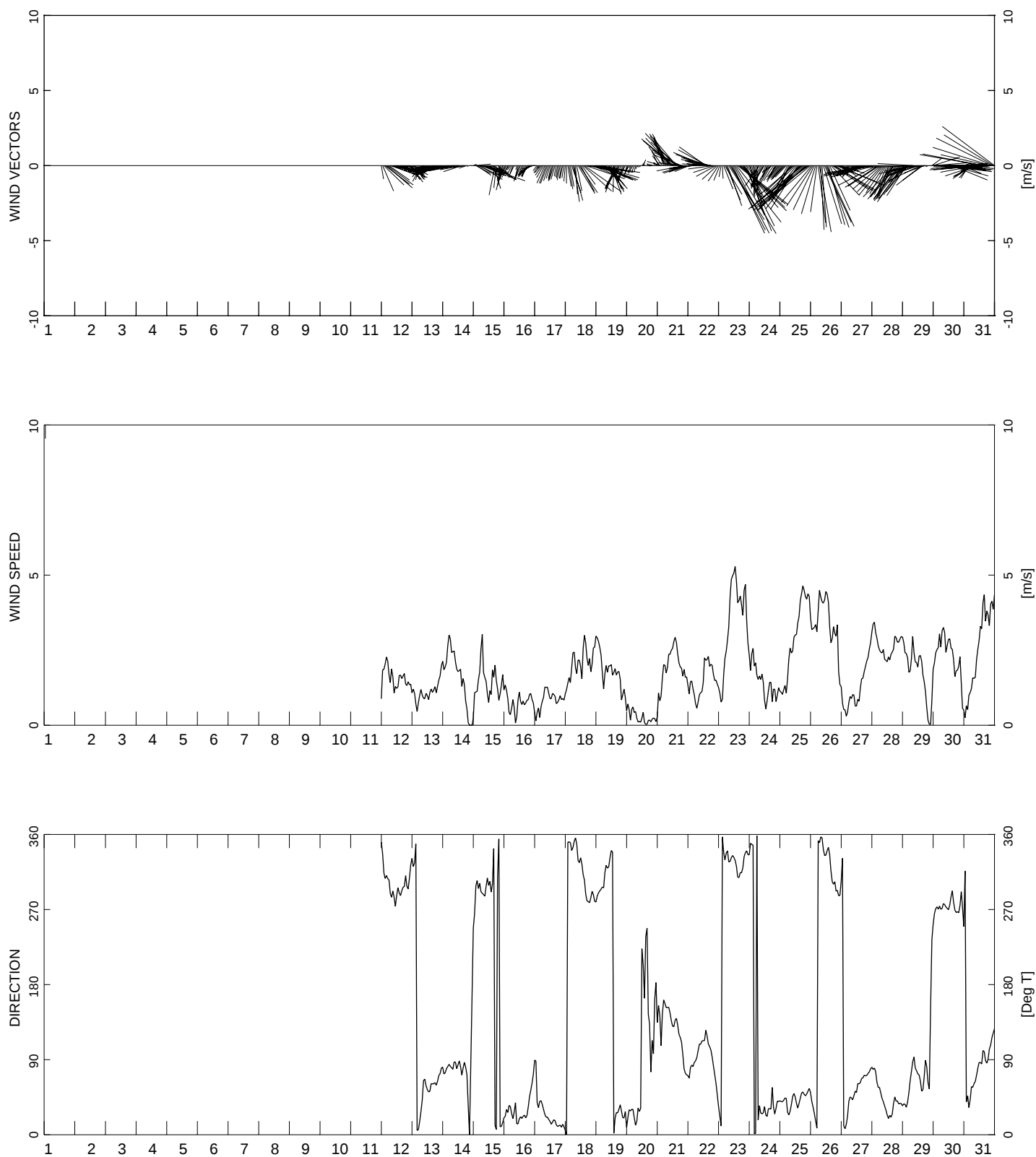
DWN
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Figure B-16



NOTES

Suspected erroneous wind data between January 1st and 12th has been removed from the record.

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YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

Tyhee Station Wind Data January 2006

PROJECT NO.
Y22101057

DWN
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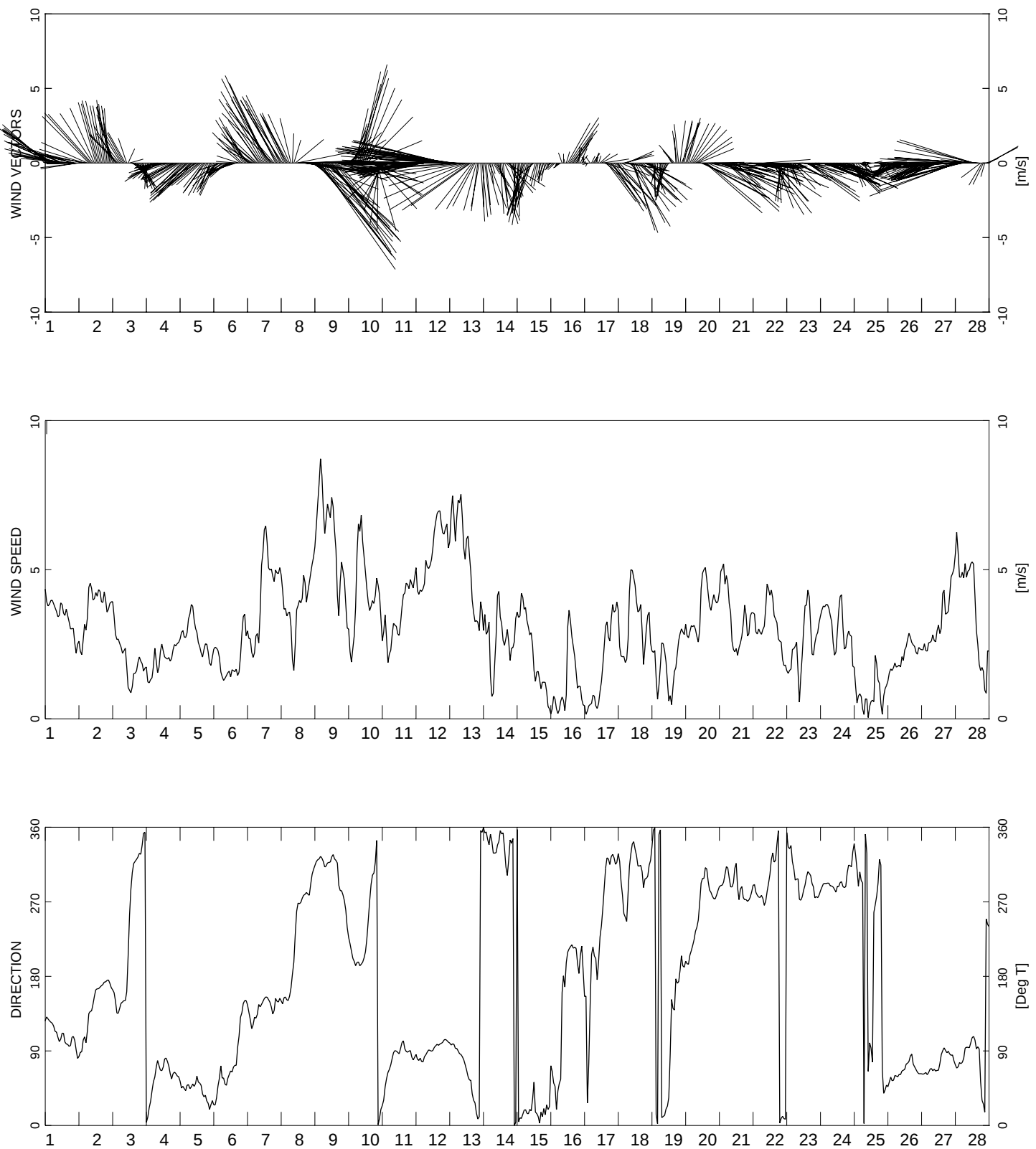
CHK
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Figure B-17



NOTES

CLIENT



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YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Data
February 2006**

PROJECT NO.
Y22101057

DWN
RED

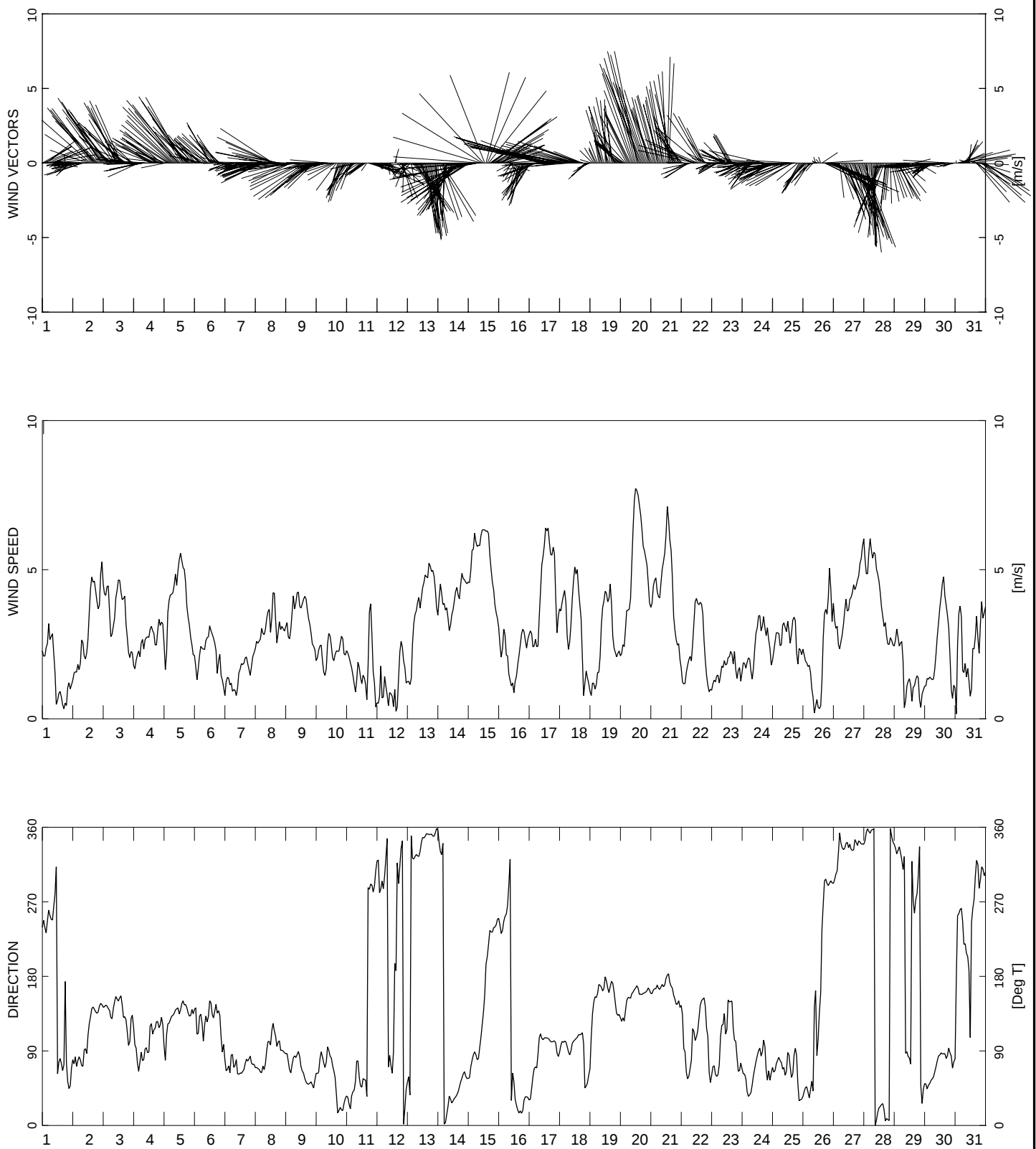
CHK
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REV
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EBA-VANC

DATE
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Figure B-18



NOTES

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YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Data
March 2006**

PROJECT NO.
Y22101057

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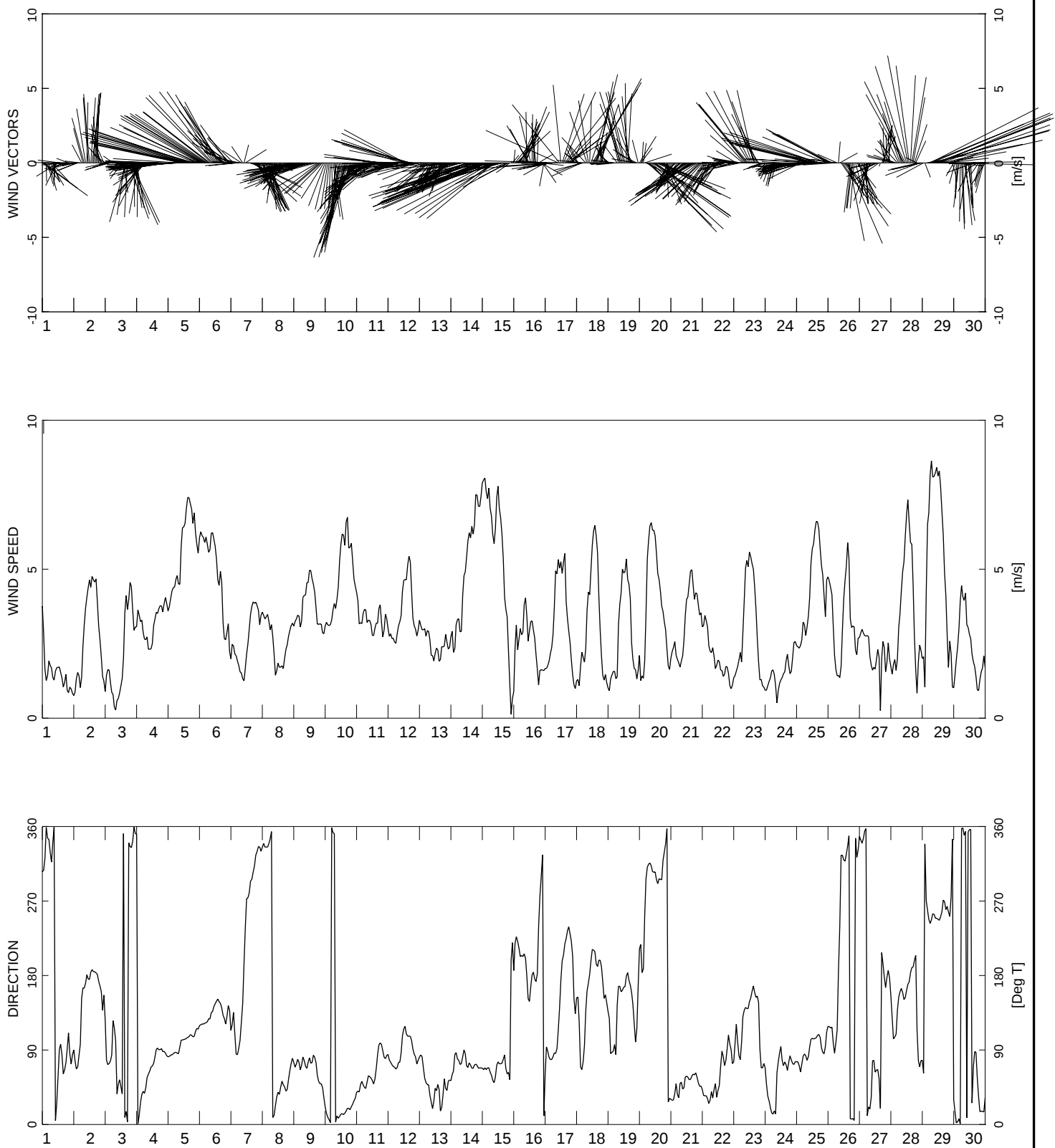
DWN
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July 2009

CHK
JAS

REV
0

Figure B-19



NOTES

CLIENT



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YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Data
April 2006**

PROJECT NO.
Y22101057

DWN
RED

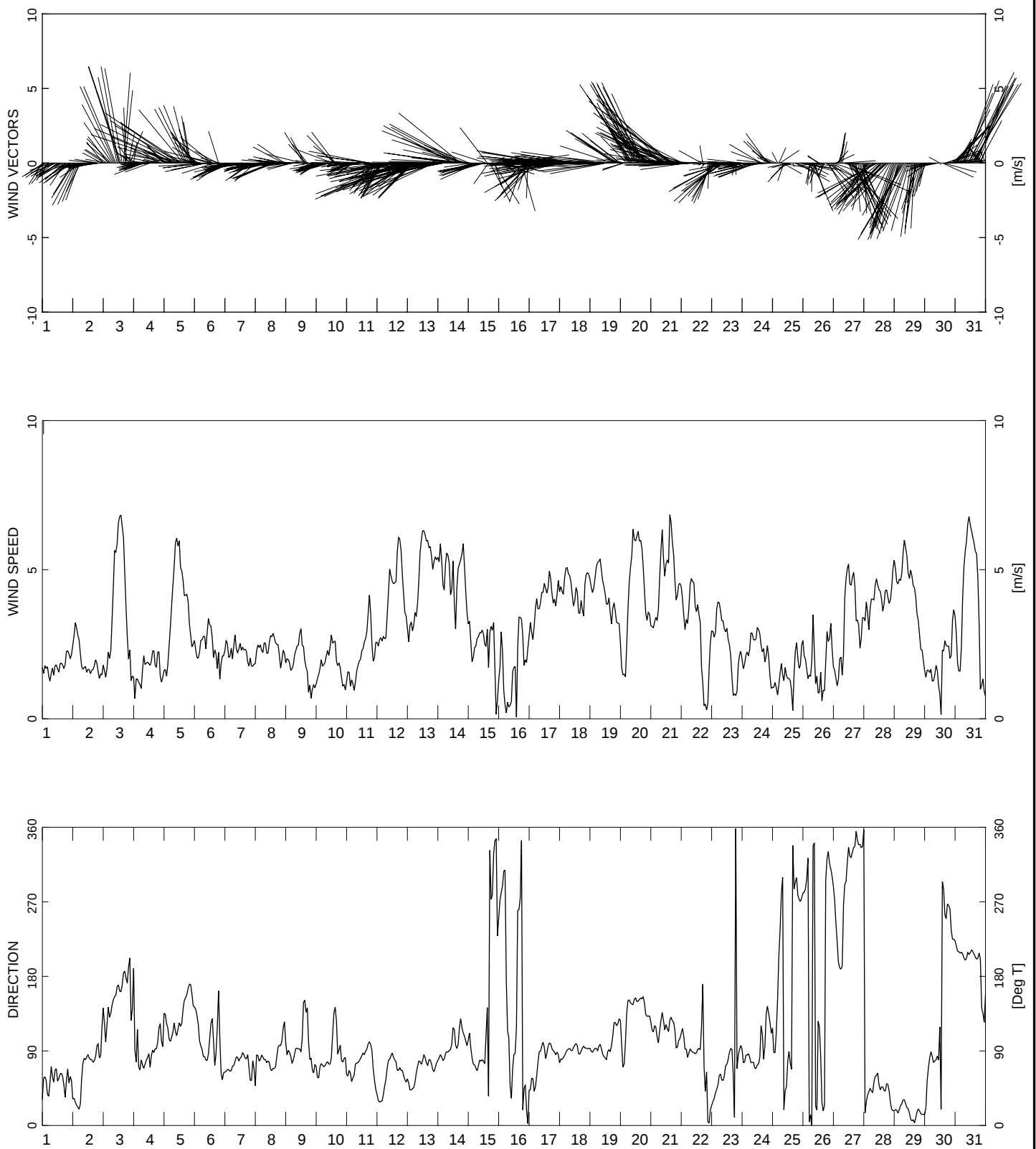
CHK
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Figure B-20



NOTES

CLIENT



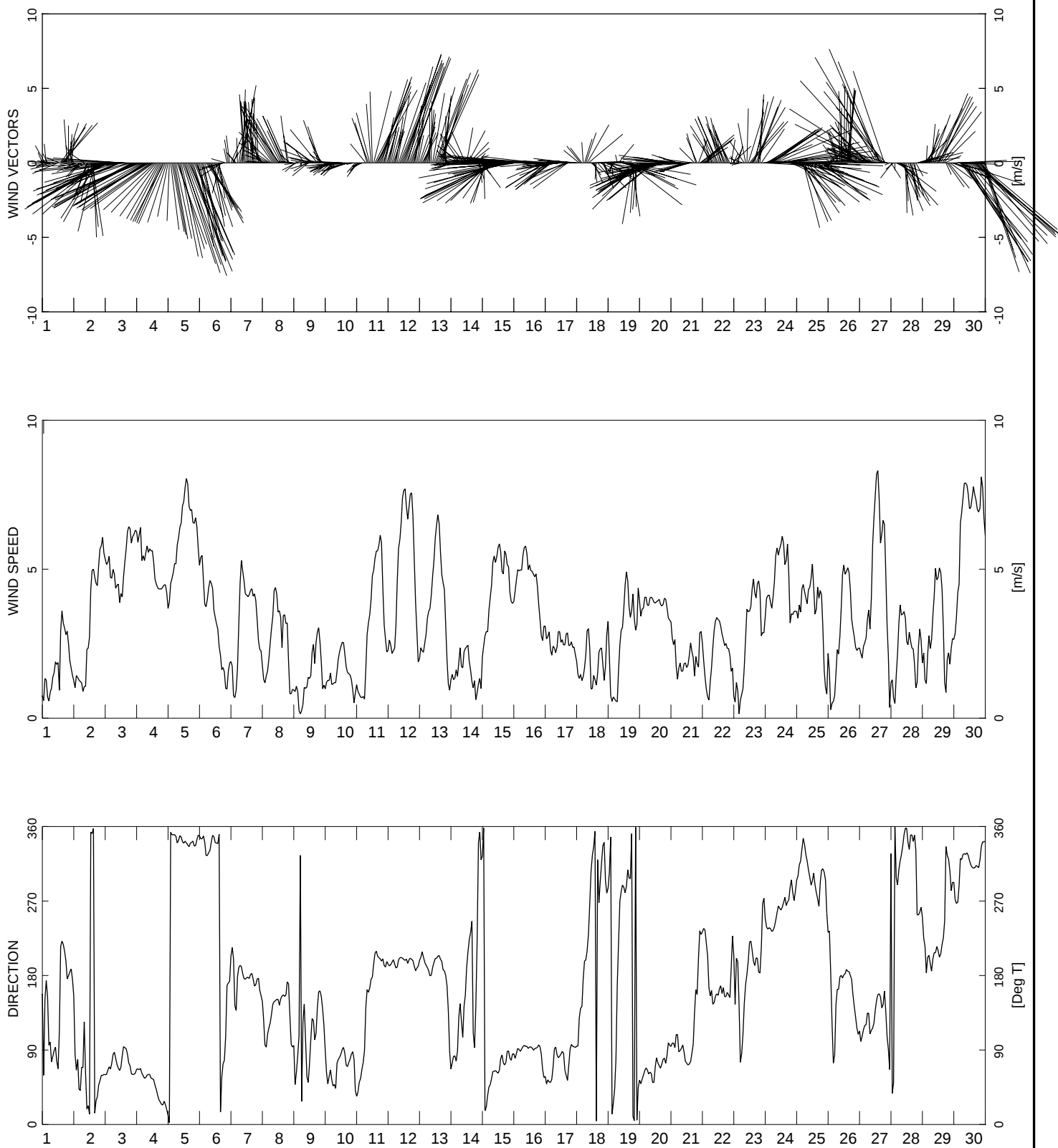
EBA Engineering Consultants Ltd. 

YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Data
May 2006**

PROJECT NO. Y22101057	DWN RED	CHK JAS	REV 0
OFFICE EBA-VANC	DATE July 2009		

Figure B-21



NOTES

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YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Data
June 2006**

PROJECT NO.
Y22101057

DWN
RED

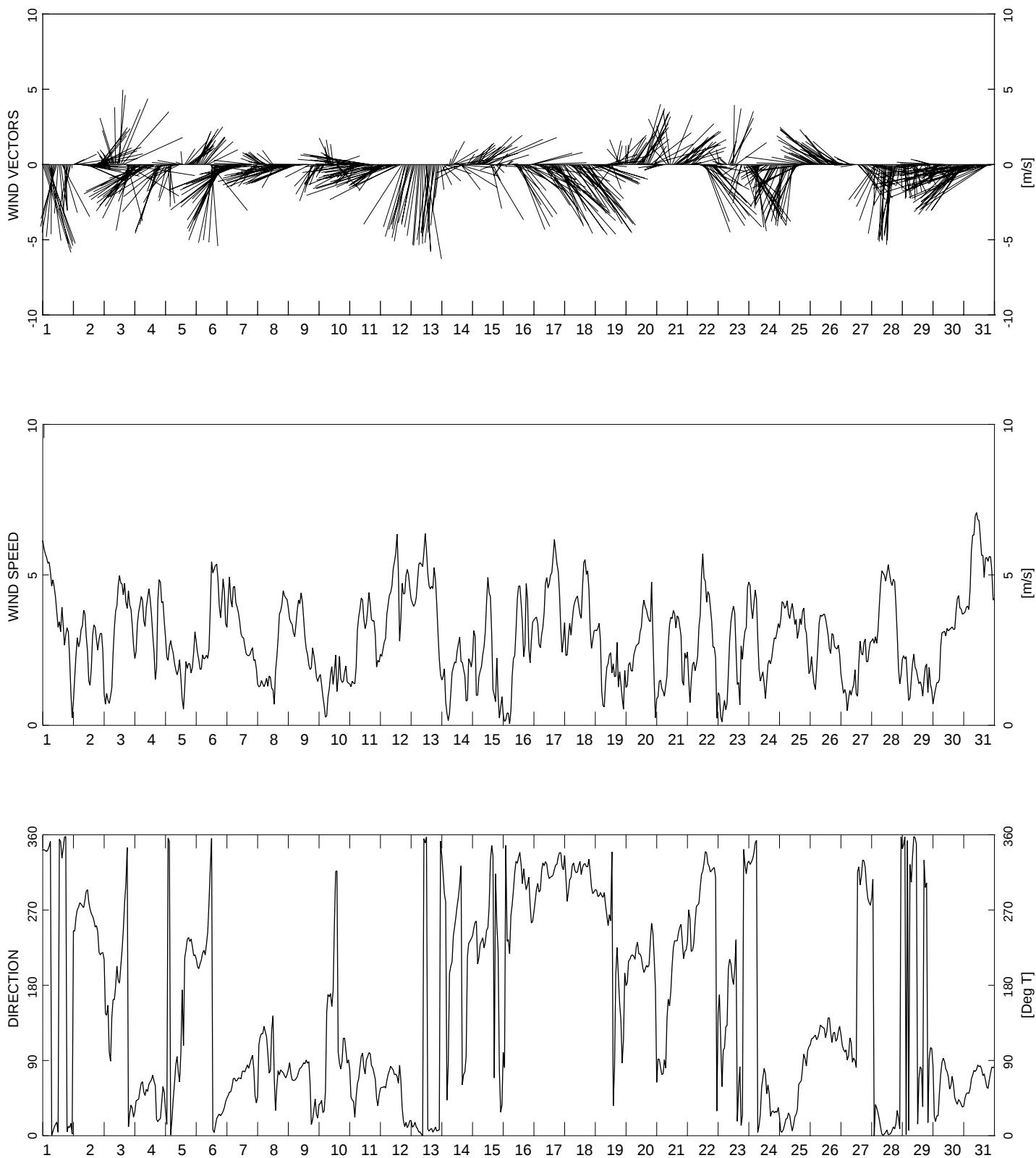
CHK
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Figure B-22



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YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Data
July 2006**

PROJECT NO.
Y22101057

DWN
RED

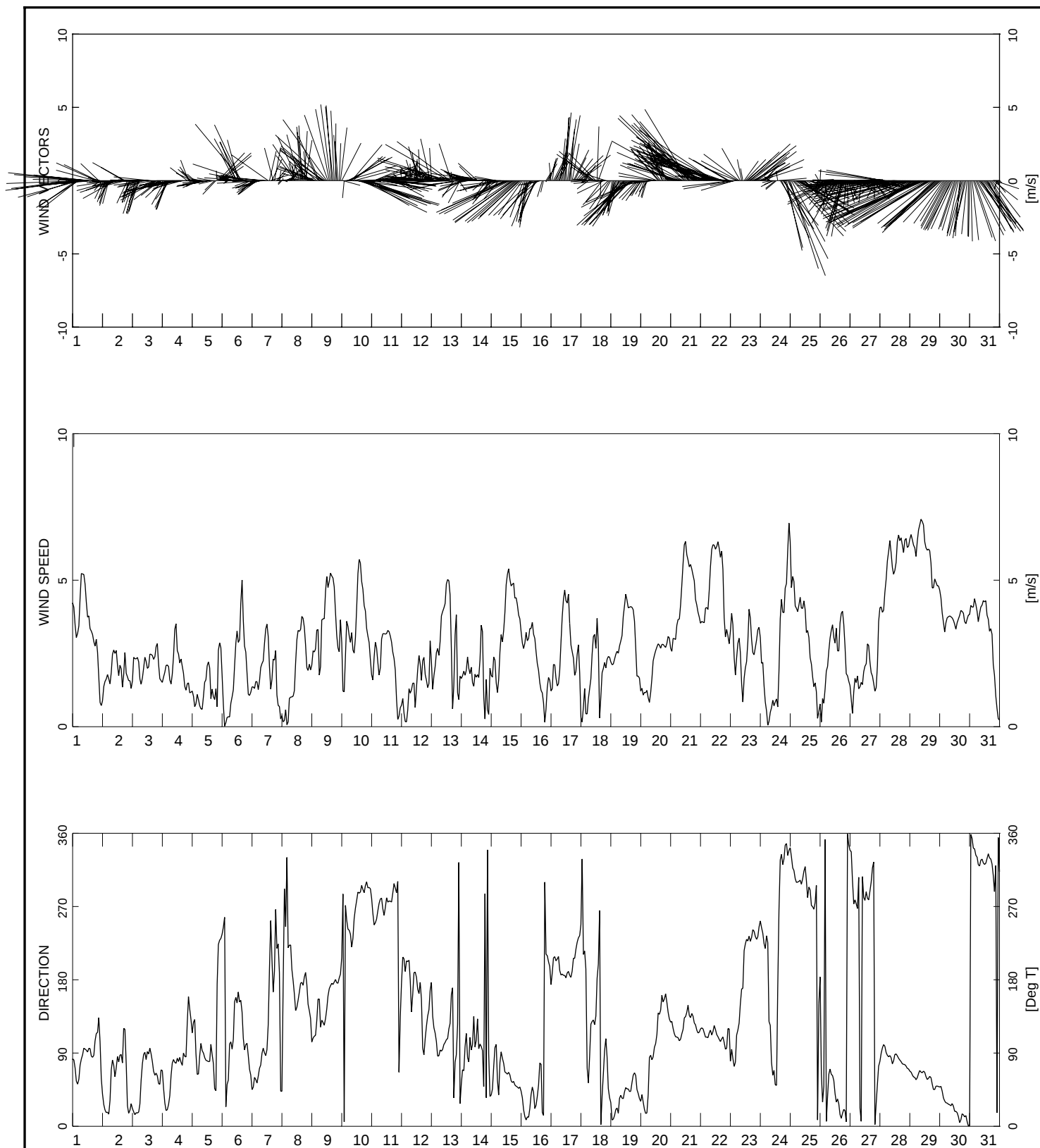
CHK
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OFFICE
EBA-VANC

DATE
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Figure B-23



NOTES

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YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Data
August 2006**

PROJECT NO.
Y22101057

DWN
RED

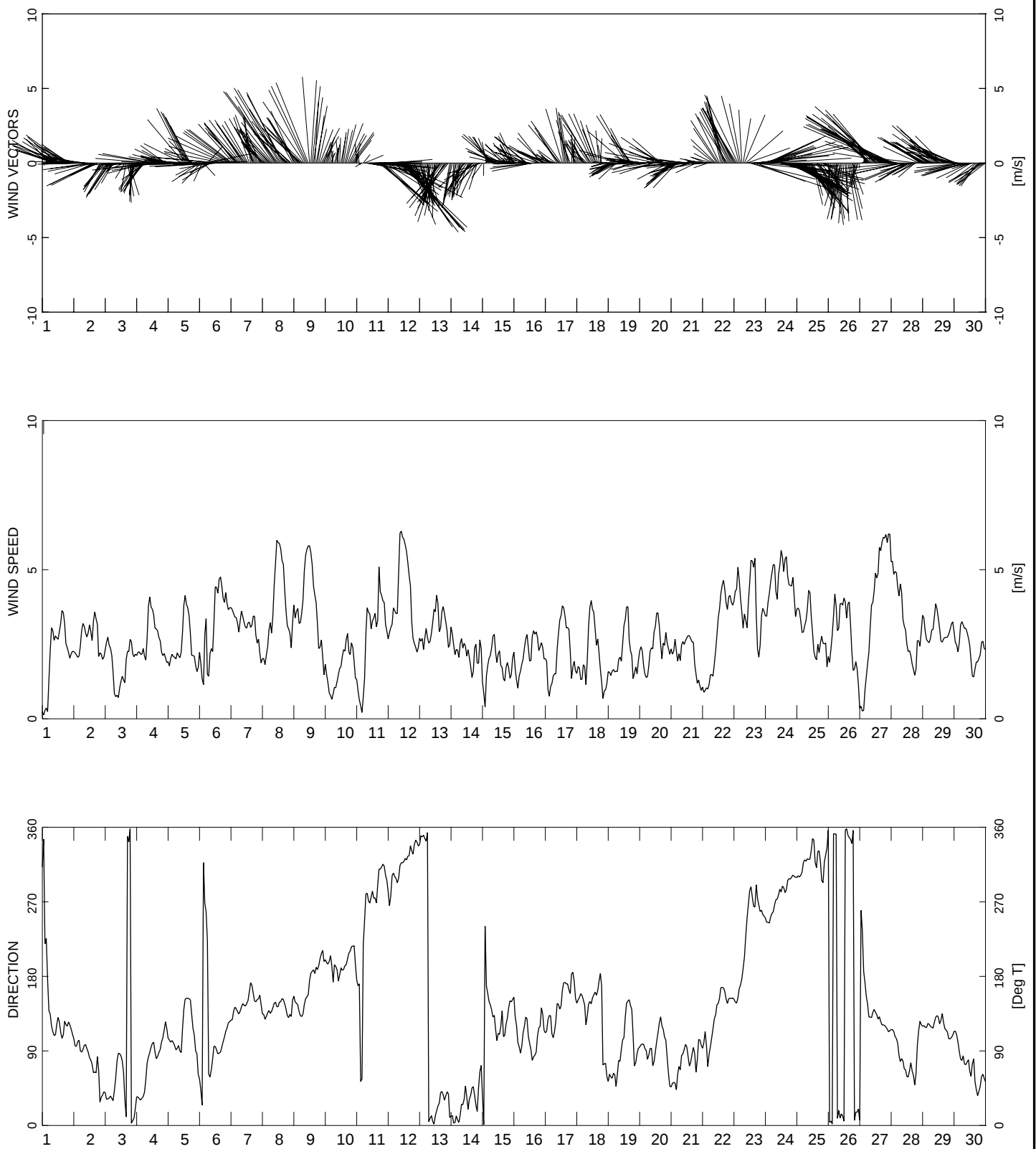
CHK
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DATE
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Figure B-24



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YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Data
September 2006**

PROJECT NO.
Y22101057

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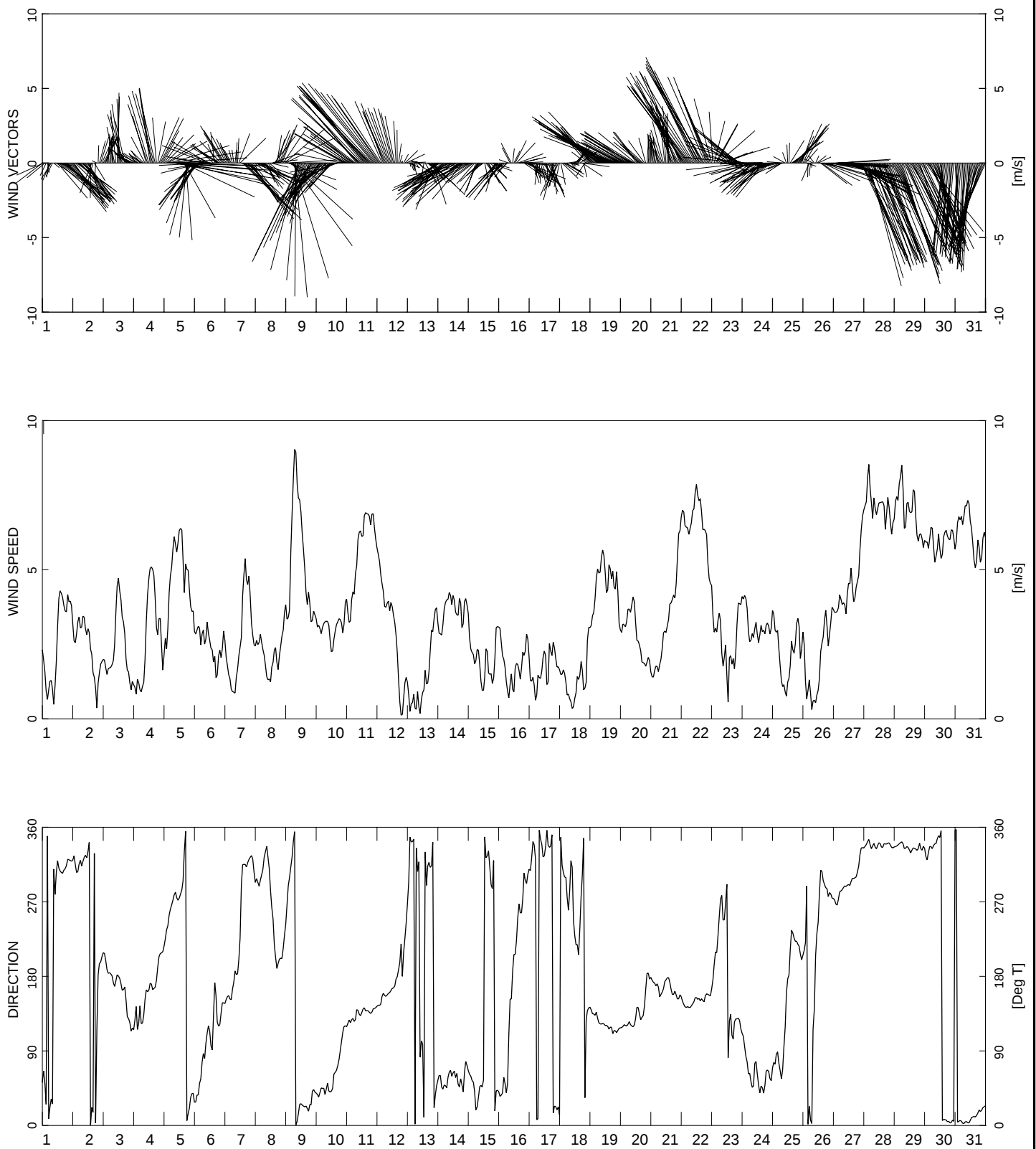
DWN
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July 2009

CHK
JAS

REV
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Figure B-25



NOTES

CLIENT



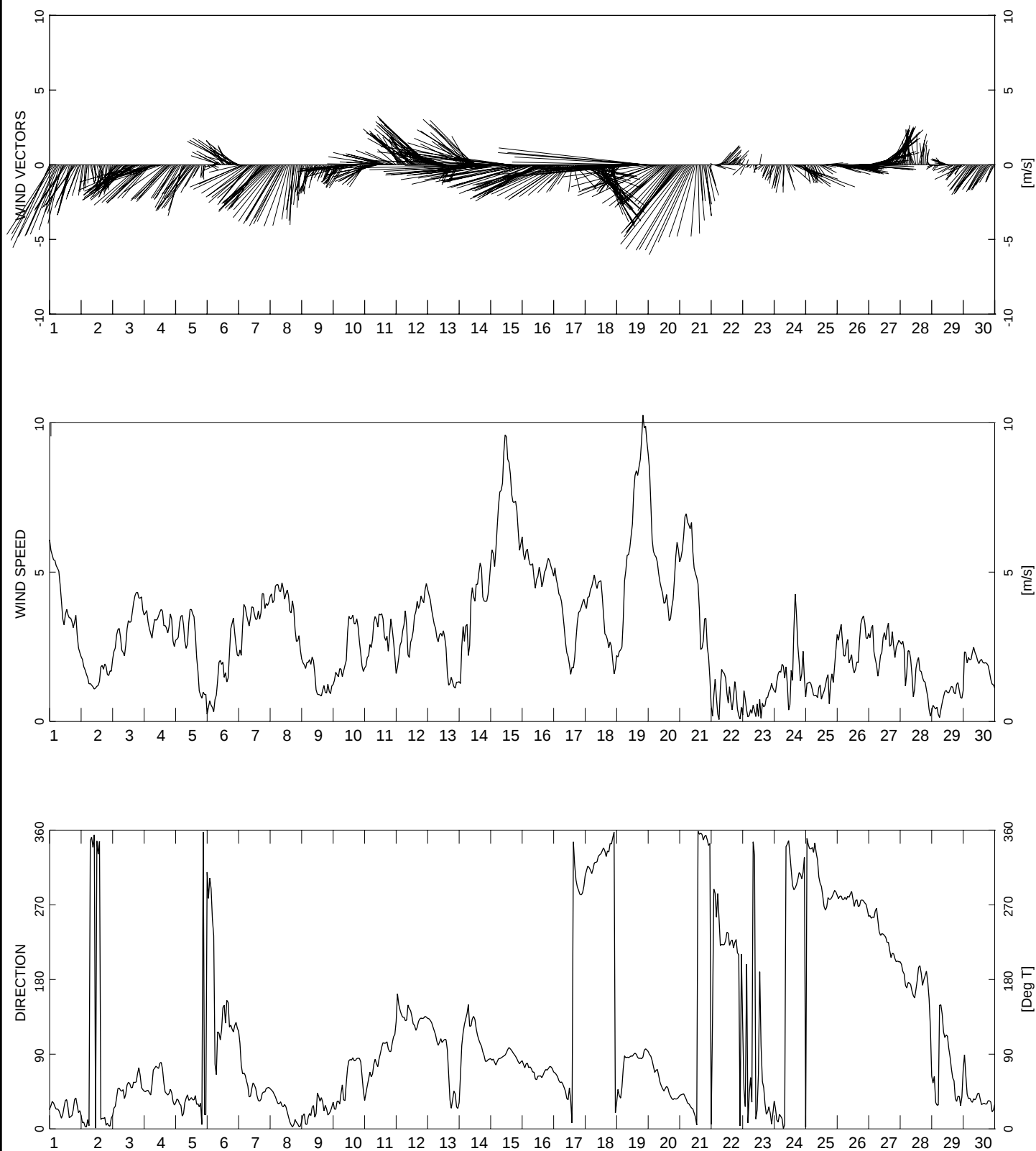
EBA Engineering Consultants Ltd. 

YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Data
October 2006**

PROJECT NO. Y22101057	DWN RED	CHK JAS	REV 0
OFFICE EBA-VANC	DATE July 2009		

Figure B-26



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CLIENT



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YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Data
November 2006**

PROJECT NO.
Y22101057

DWN
RED

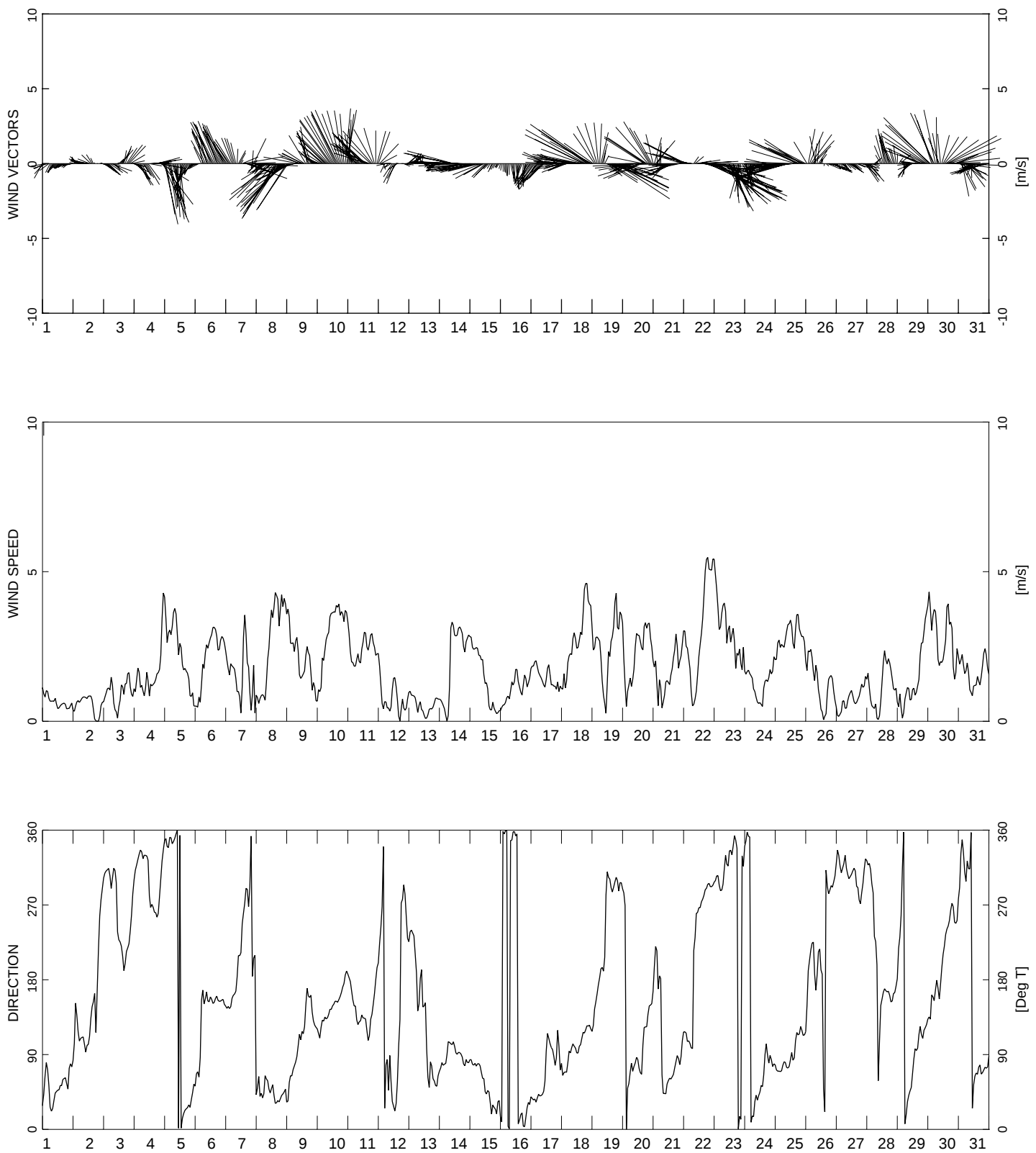
CHK
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Figure B-27



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YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Data
December 2006**

PROJECT NO.
Y22101057

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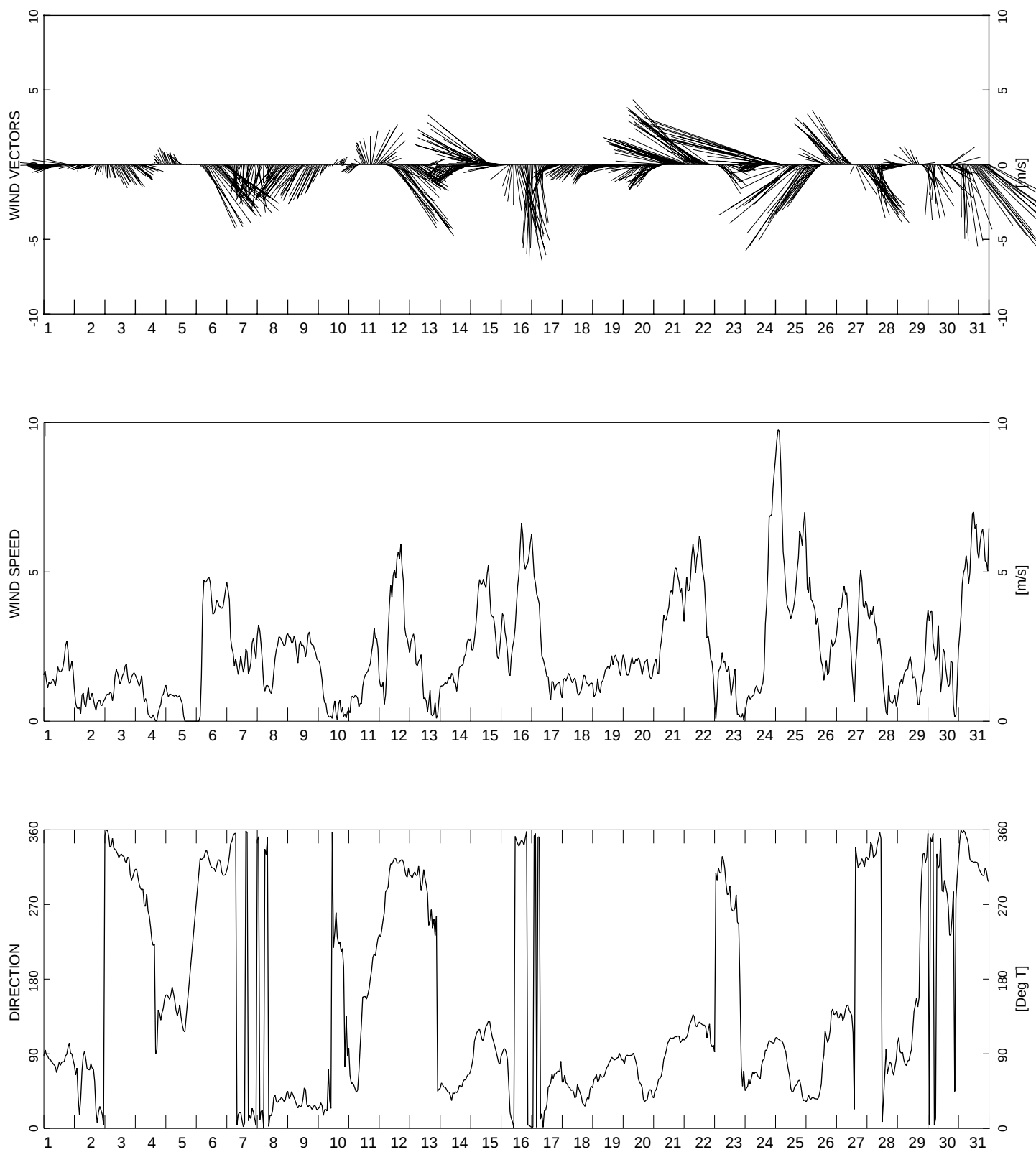
DWN
RED

DATE
July 2009

CHK
JAS

REV
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Figure B-28



NOTES

CLIENT



EBA Engineering Consultants Ltd. 

YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Data
January 2007**

PROJECT NO.
Y22101057

DWN
RED

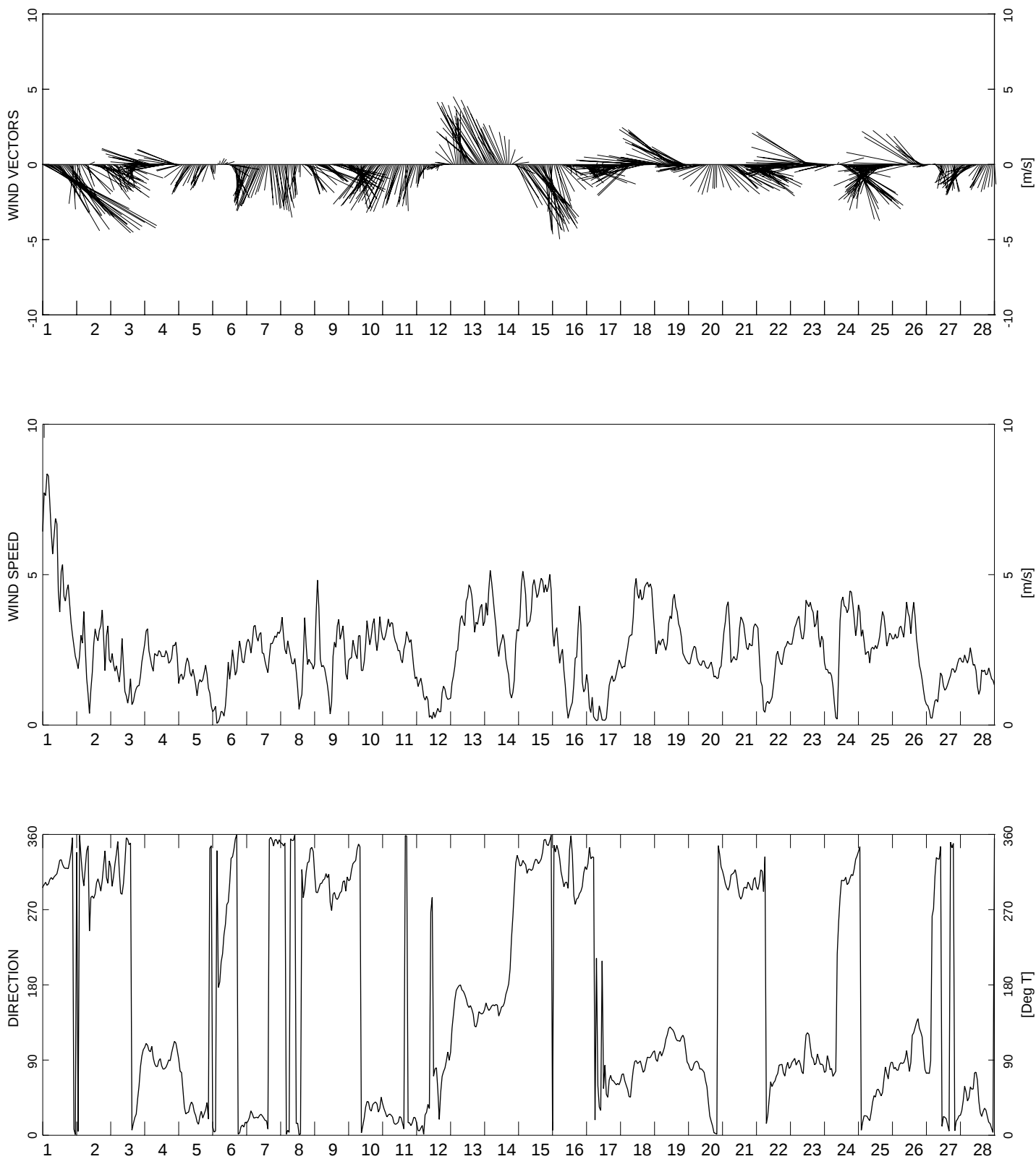
CHK
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Figure B-29



NOTES

CLIENT



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YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Data
February 2007**

PROJECT NO.
Y22101057

DWN
RED

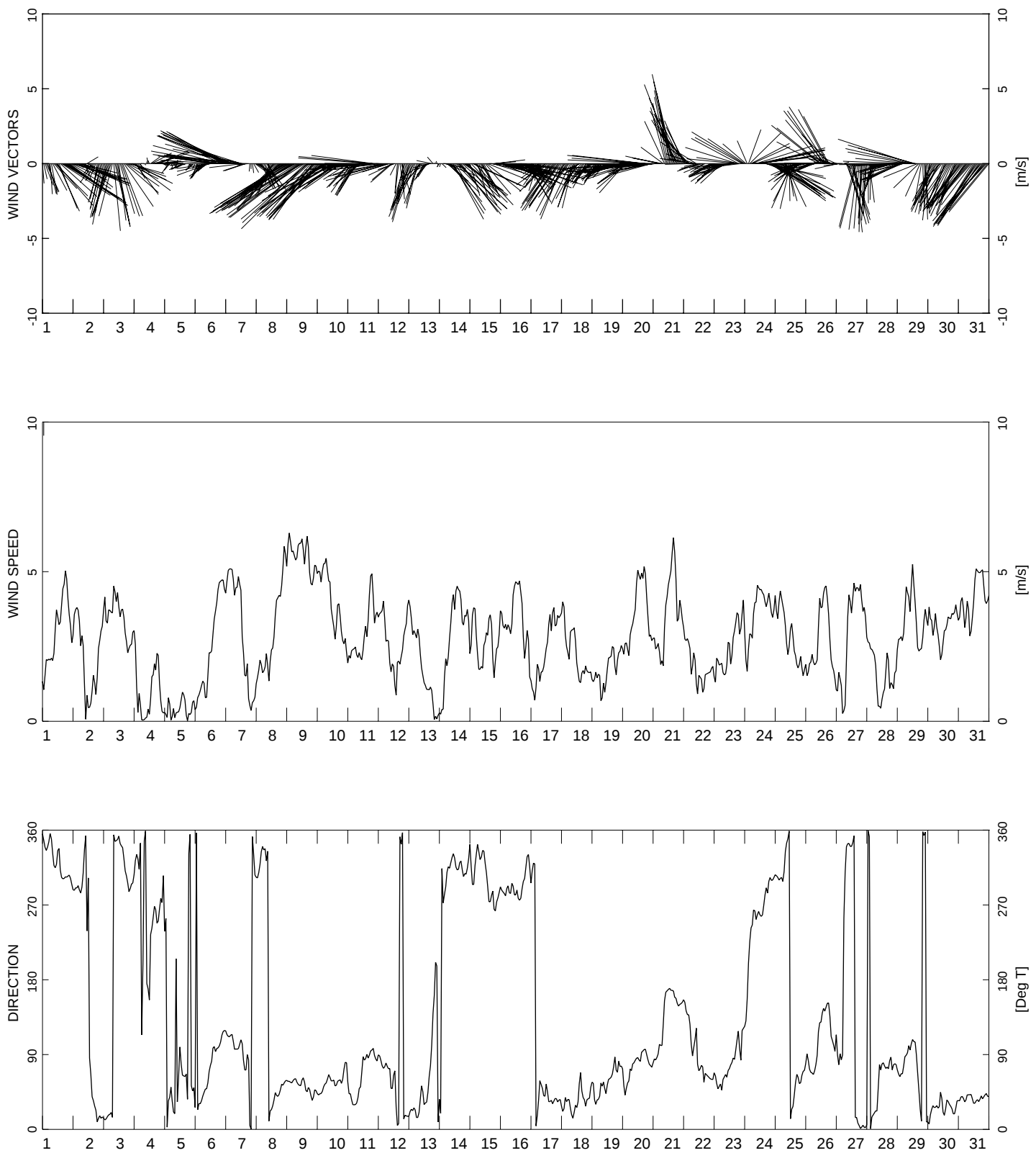
CHK
JAS

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Figure B-30



NOTES

CLIENT



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YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Data
March 2007**

PROJECT NO.
Y22101057

DWN
RED

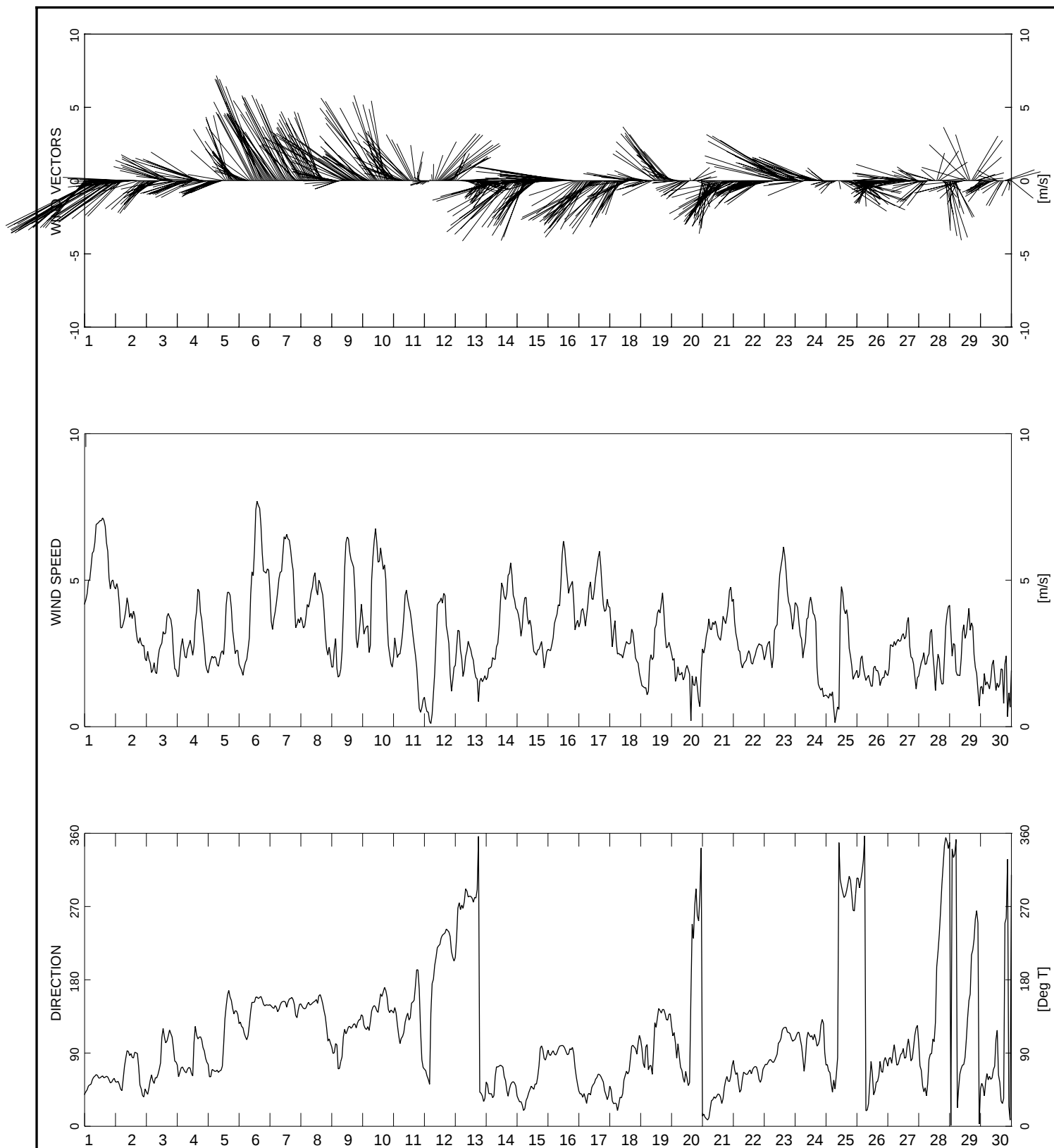
CHK
JAS

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DATE
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Figure B-31



NOTES

CLIENT



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YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Data
April 2007**

PROJECT NO.
Y22101057

DWN
RED

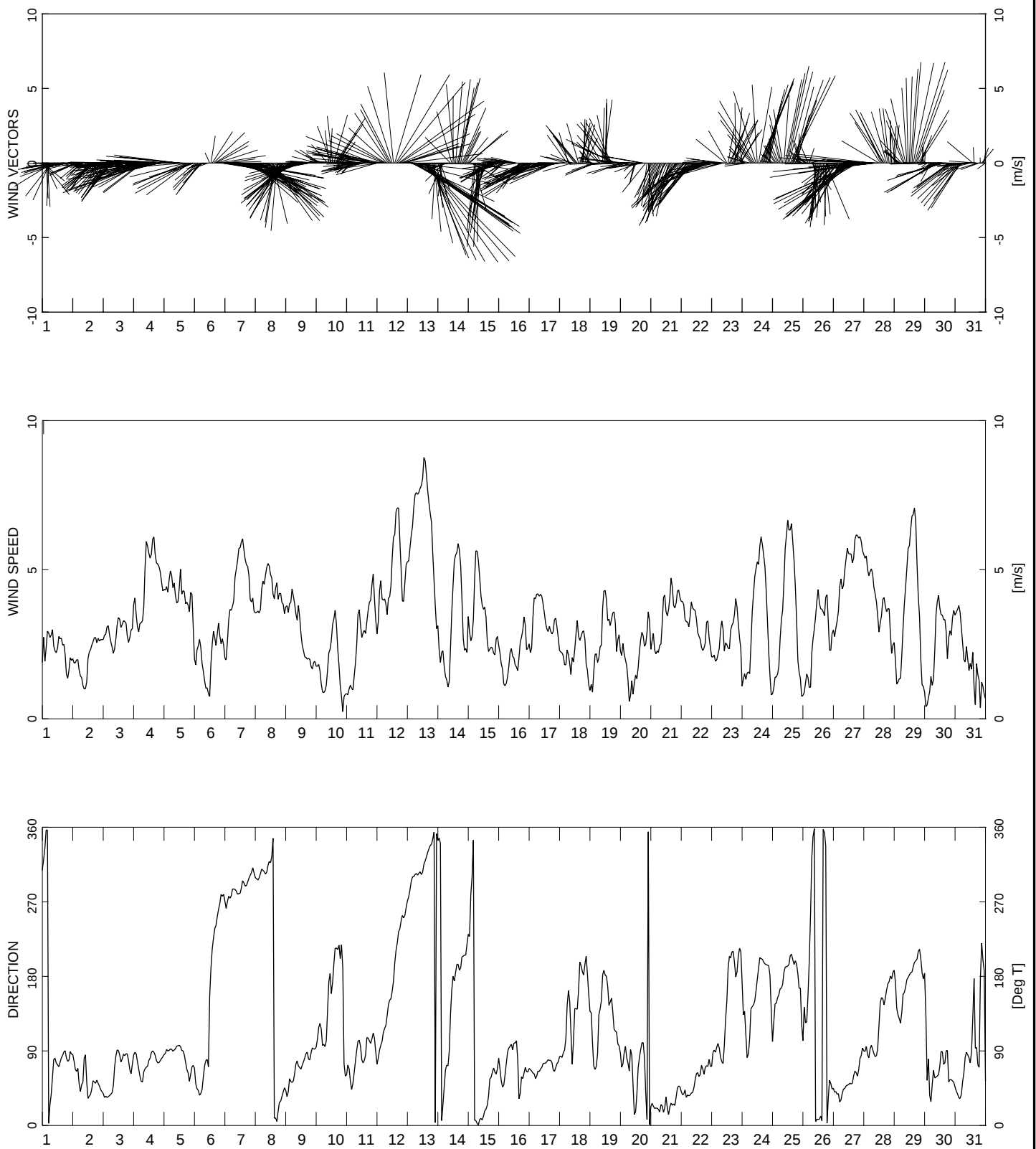
CHK
JAS

REV
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EBA-VANC

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Figure B-32



NOTES

CLIENT



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YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Data
May 2007**

PROJECT NO.
Y22101057

DWN
RED

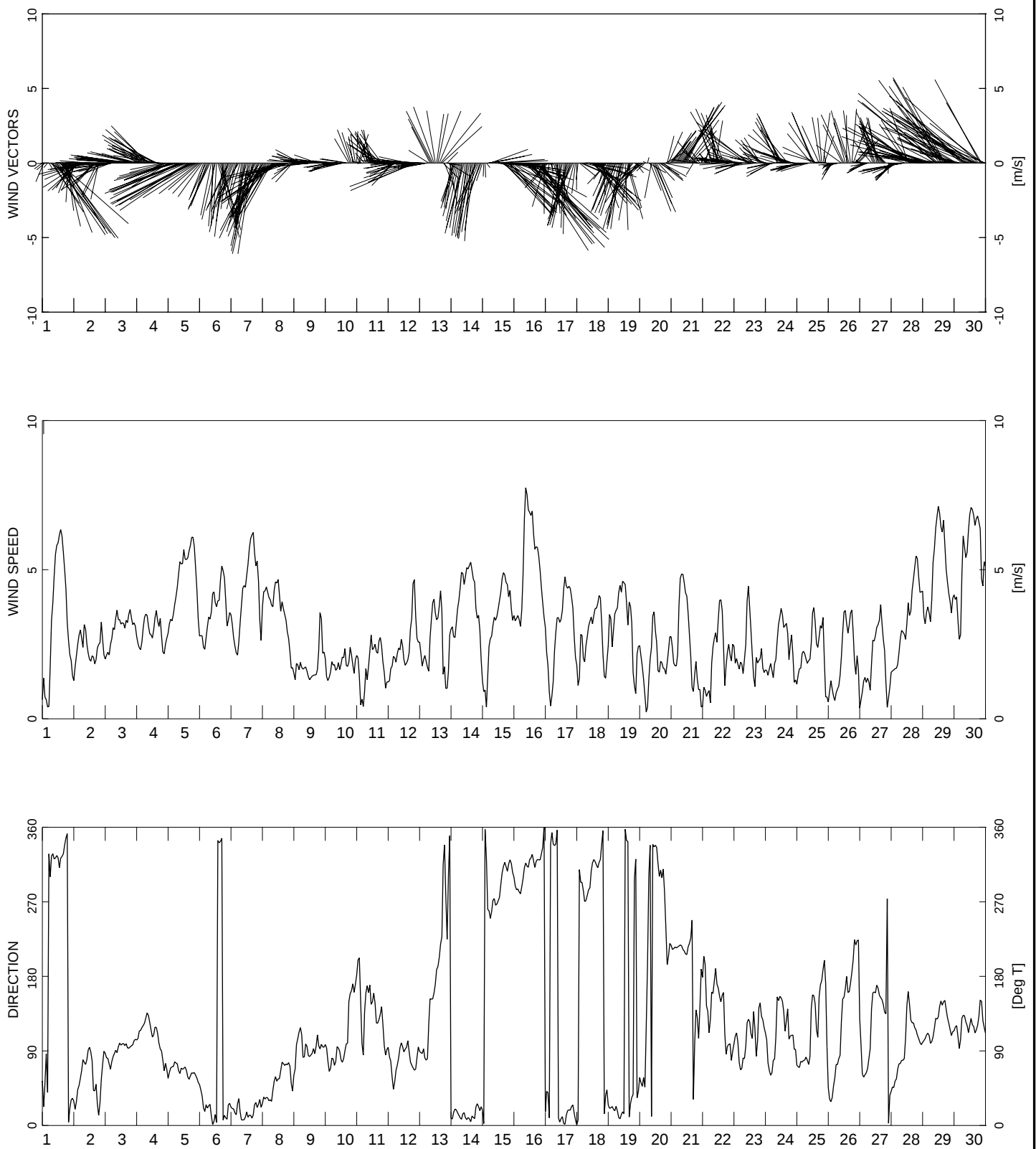
CHK
JAS

REV
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OFFICE
EBA-VANC

DATE
July 2009

Figure B-33



NOTES

CLIENT



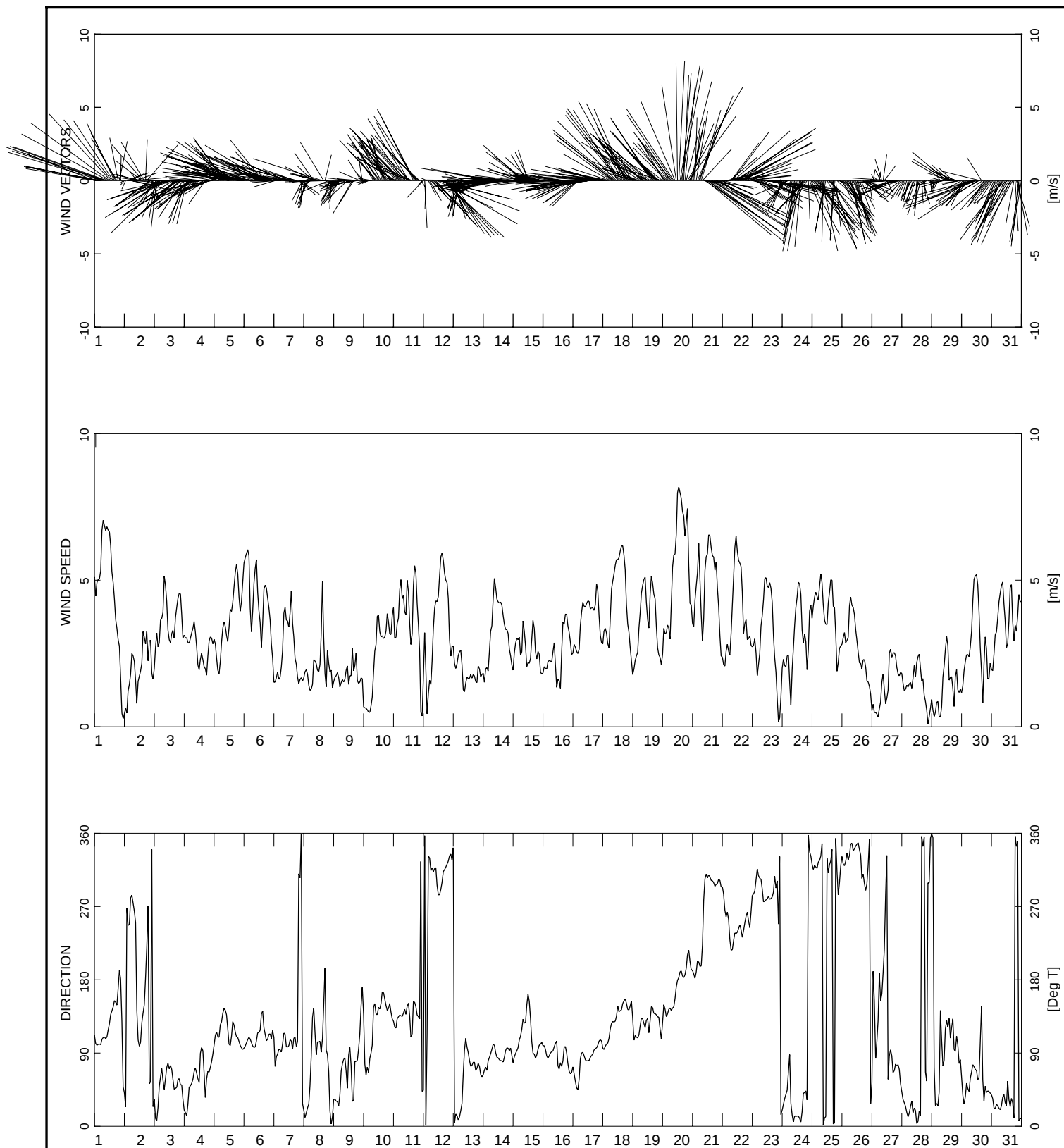
EBA Engineering Consultants Ltd. 

YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Data
June 2007**

PROJECT NO. Y22101057	DWN RED	CHK JAS	REV 0
OFFICE EBA-VANC	DATE July 2009		

Figure B-34



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CLIENT



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YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Data
July 2007**

PROJECT NO.
Y22101057

DWN
RED

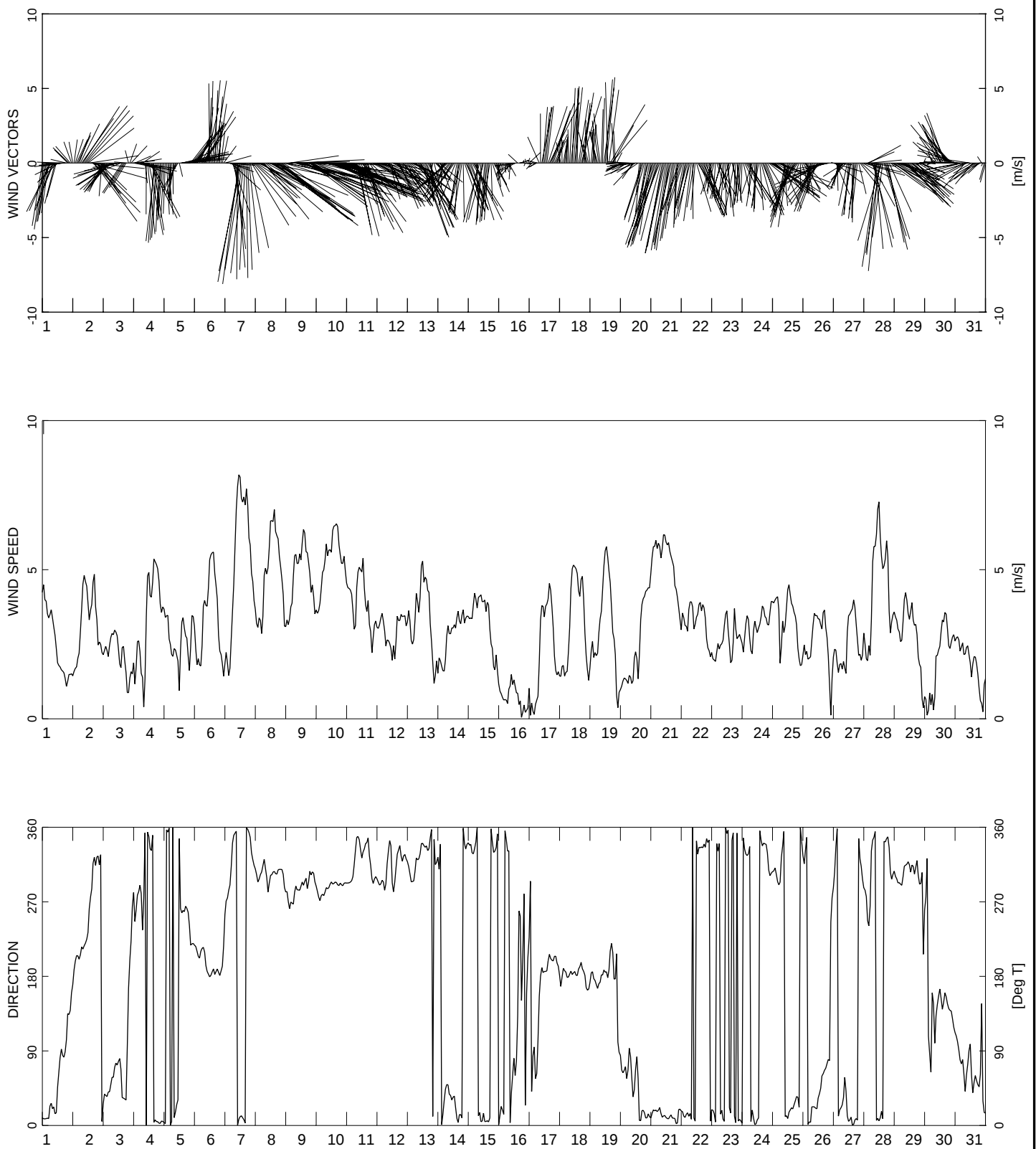
CHK
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Figure B-35



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YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Data
August 2007**

PROJECT NO.
Y22101057

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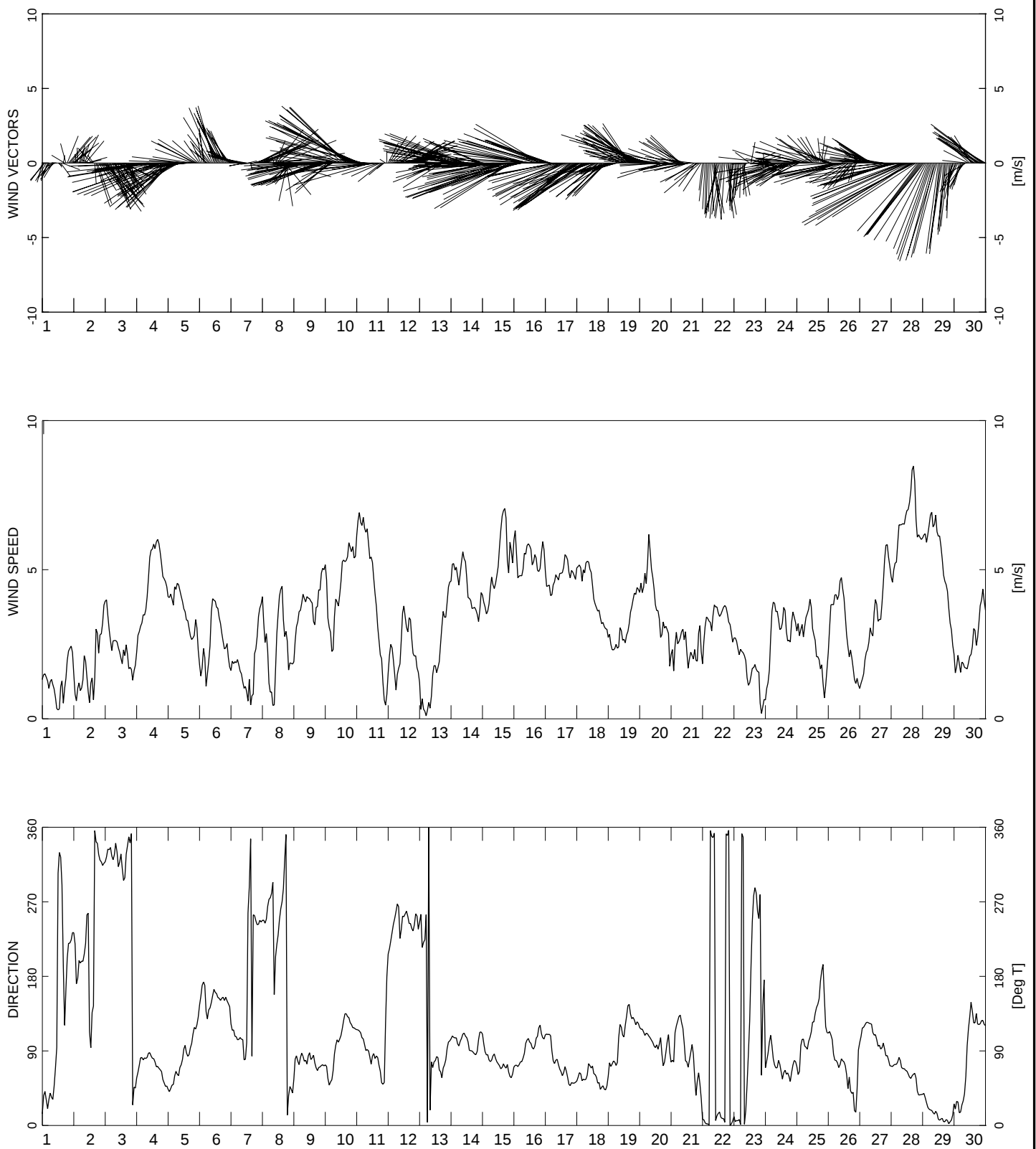
DWN
RED

DATE
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CHK
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REV
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Figure B-36



NOTES

CLIENT



EBA Engineering Consultants Ltd. 

YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Data
September 2007**

PROJECT NO.
Y22101057

DWN
RED

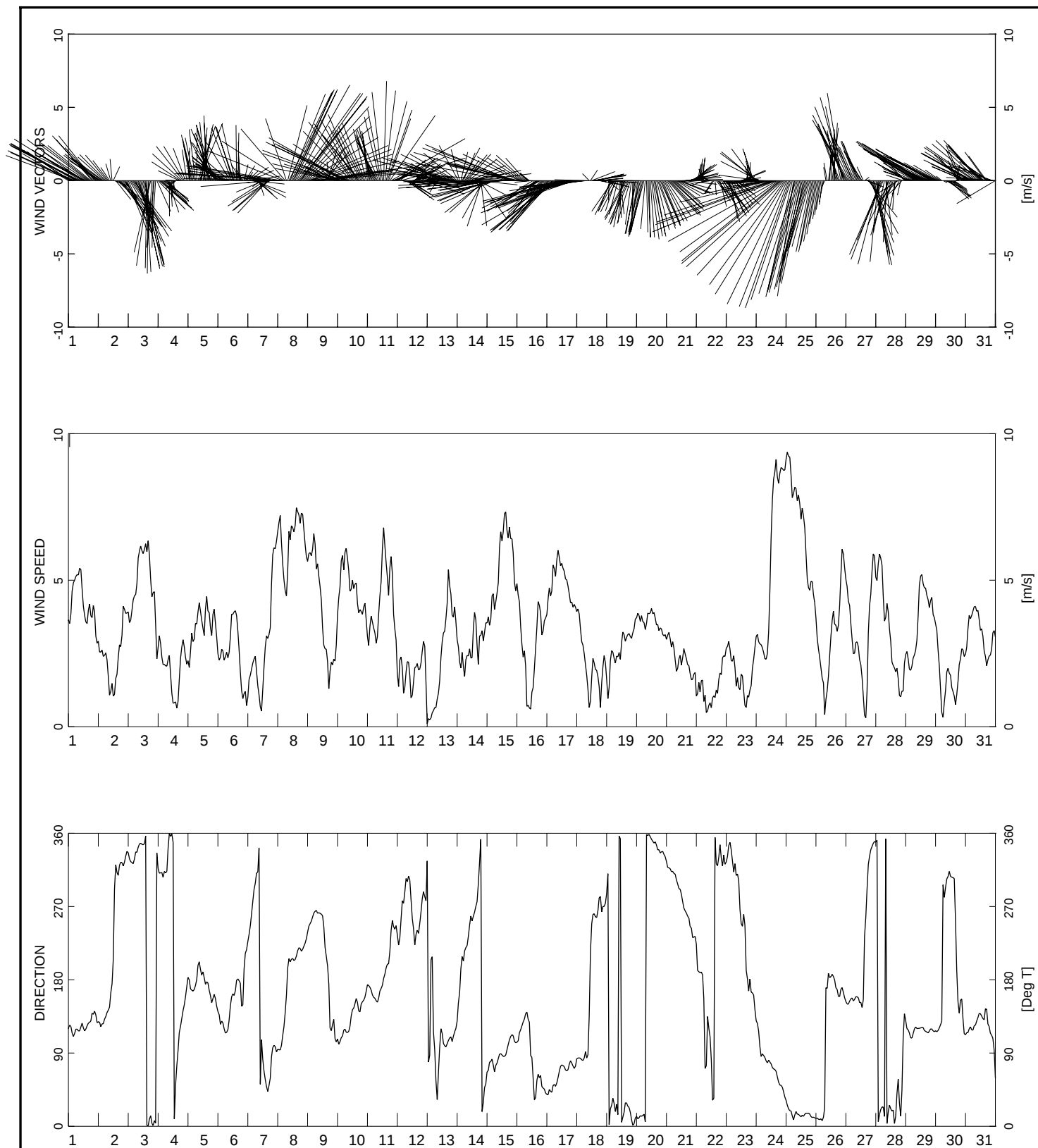
CHK
JAS

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DATE
July 2009

Figure B-37



NOTES

CLIENT



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YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Data
October 2007**

PROJECT NO.
Y22101057

DWN
RED

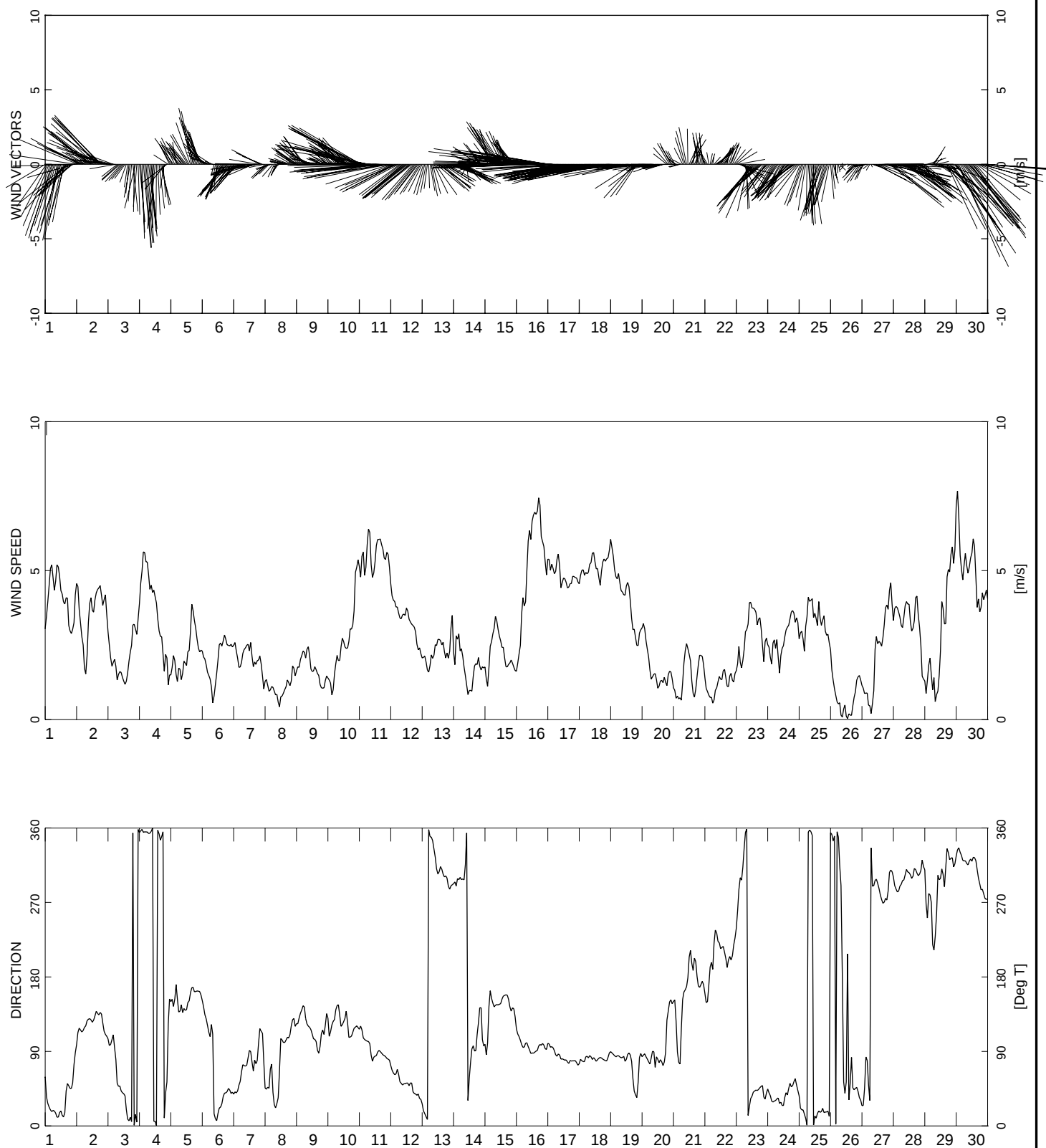
CHK
JAS

REV
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OFFICE
EBA-VANC

DATE
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Figure B-38



NOTES

CLIENT



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YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Data
November 2007**

PROJECT NO.
Y22101057

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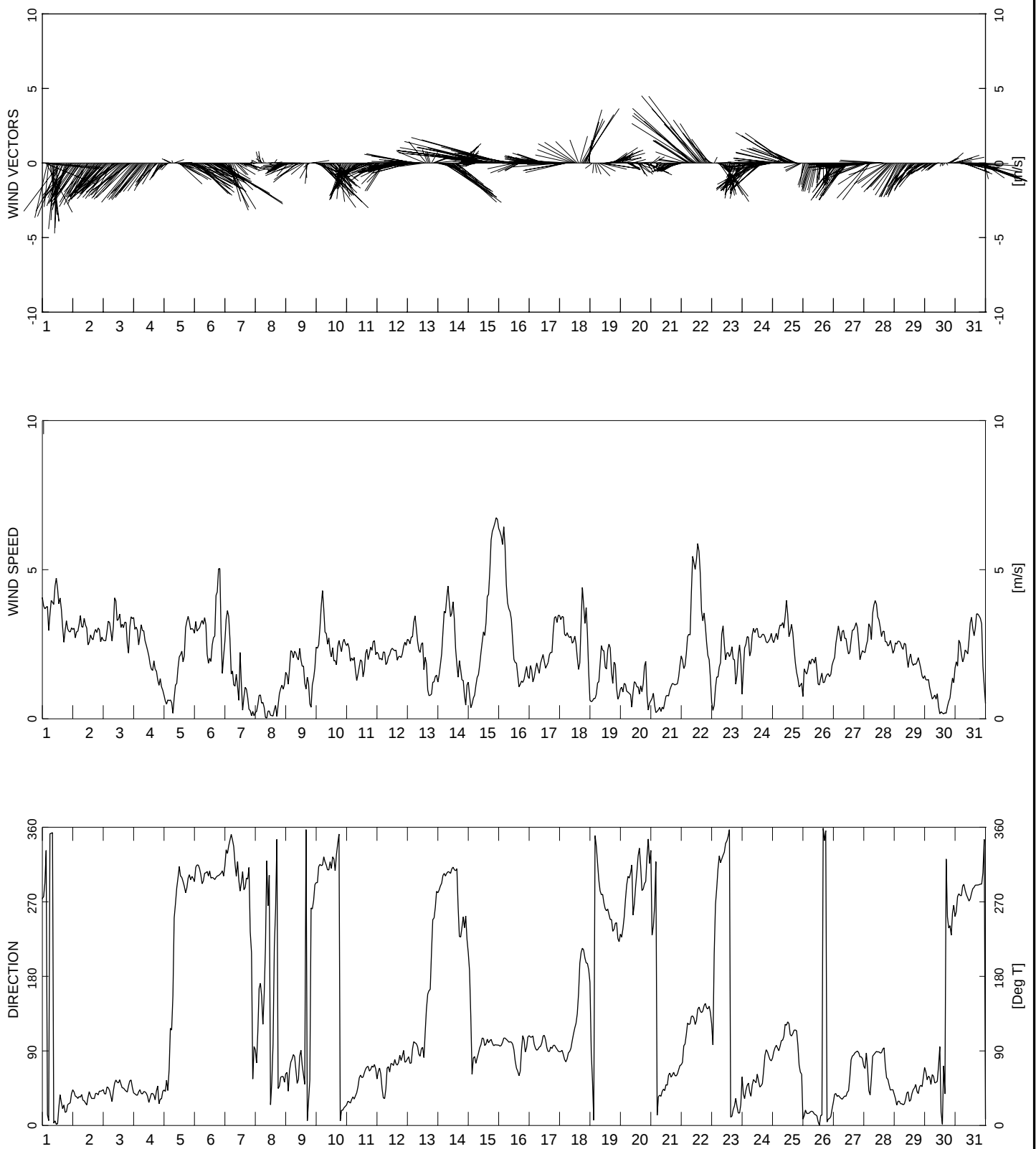
DWN
RED

DATE
July 2009

CHK
JAS

REV
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Figure B-39



NOTES

CLIENT



EBA Engineering Consultants Ltd. 

YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Data
December 2007**

PROJECT NO.
Y22101057

DWN
RED

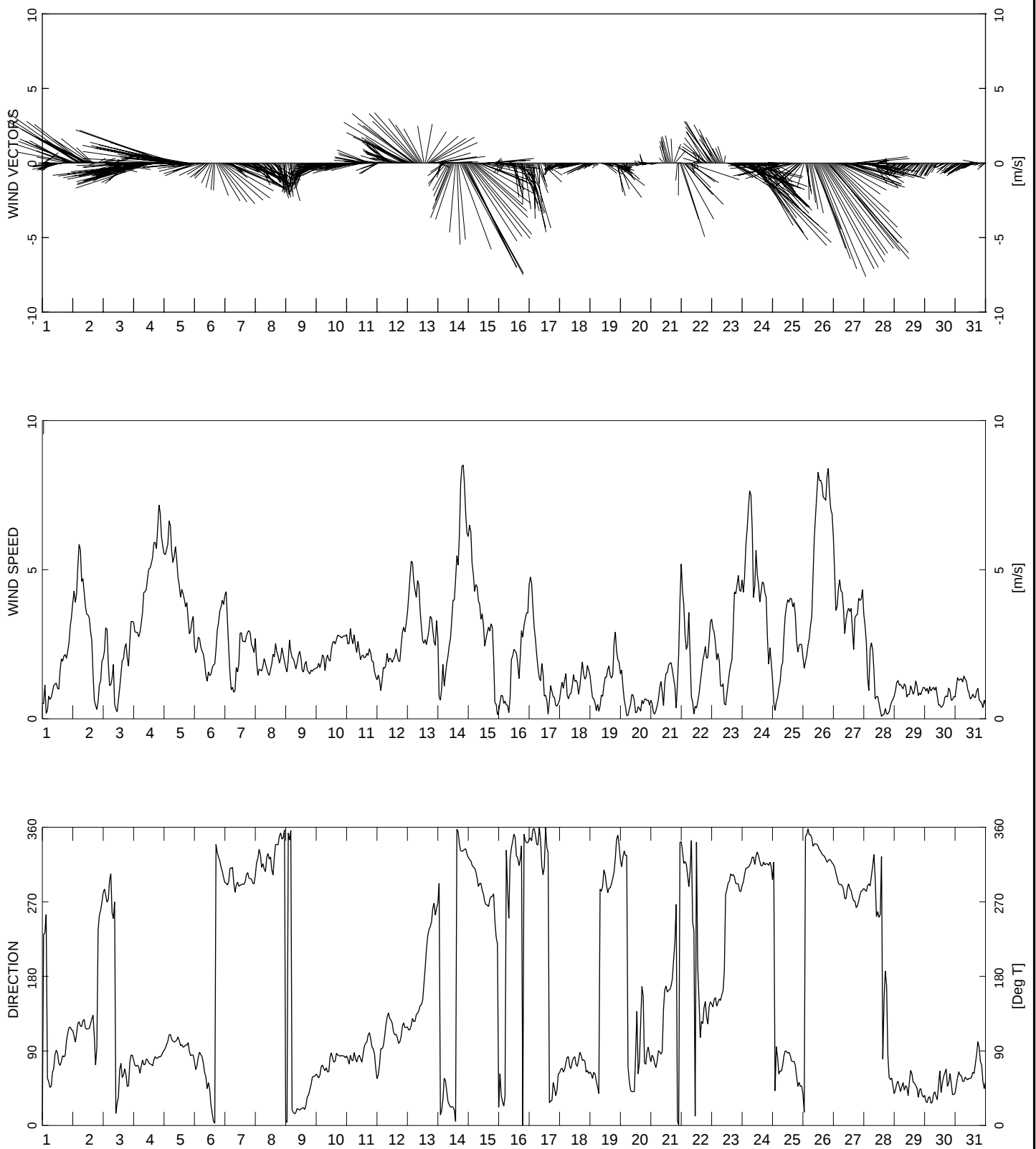
CHK
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REV
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OFFICE
EBA-VANC

DATE
July 2009

Figure B-40



NOTES

CLIENT

YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Data
January 2008**

**EBA Engineering
Consultants Ltd.**



PROJECT NO.
Y22101057

DWN
RED

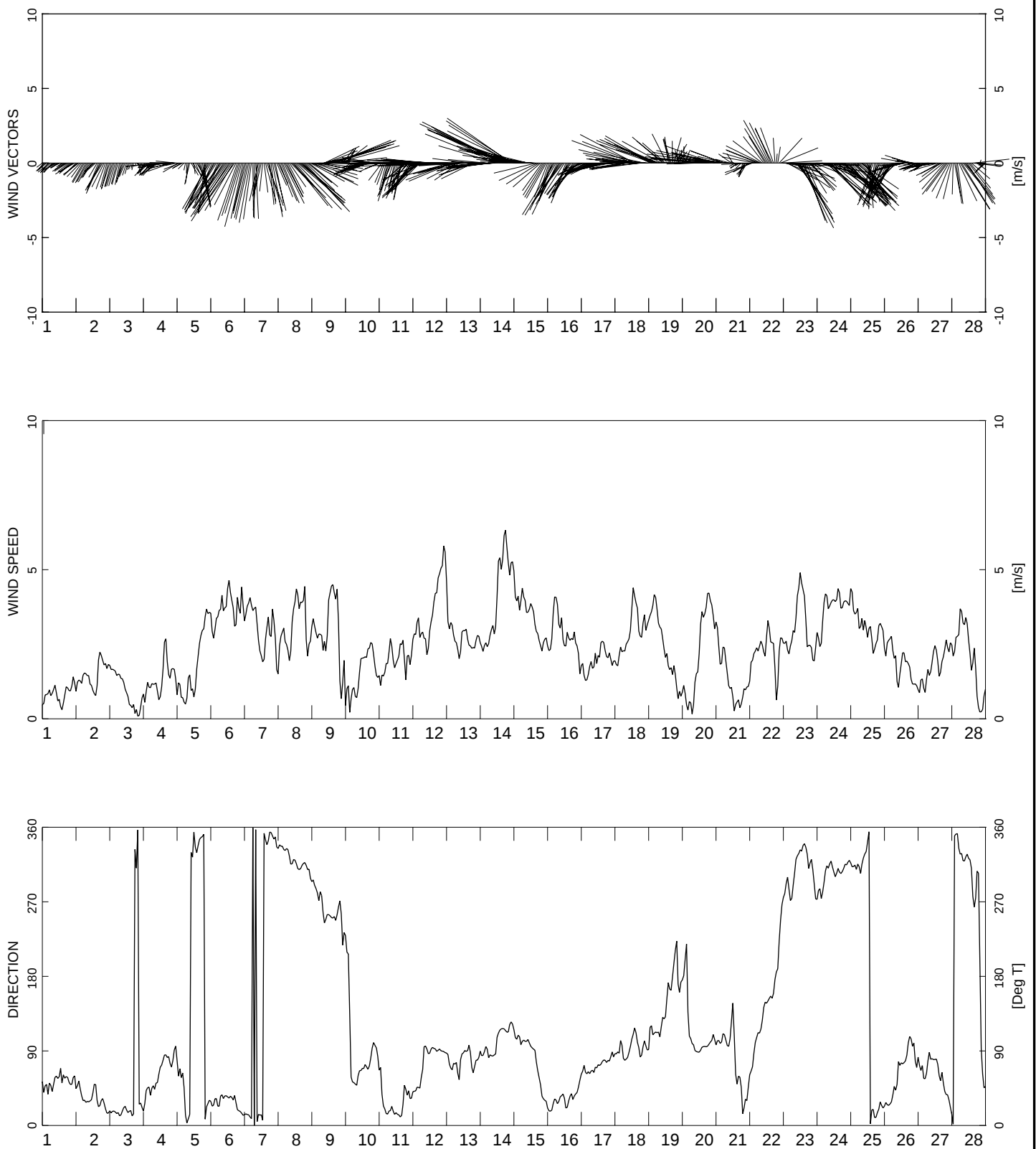
CHK
JAS

REV
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OFFICE
EBA-VANC

DATE
July 2009

Figure B-41



NOTES

CLIENT

YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Data
February 2008**

**EBA Engineering
Consultants Ltd.**



PROJECT NO.
Y22101057

DWN
RED

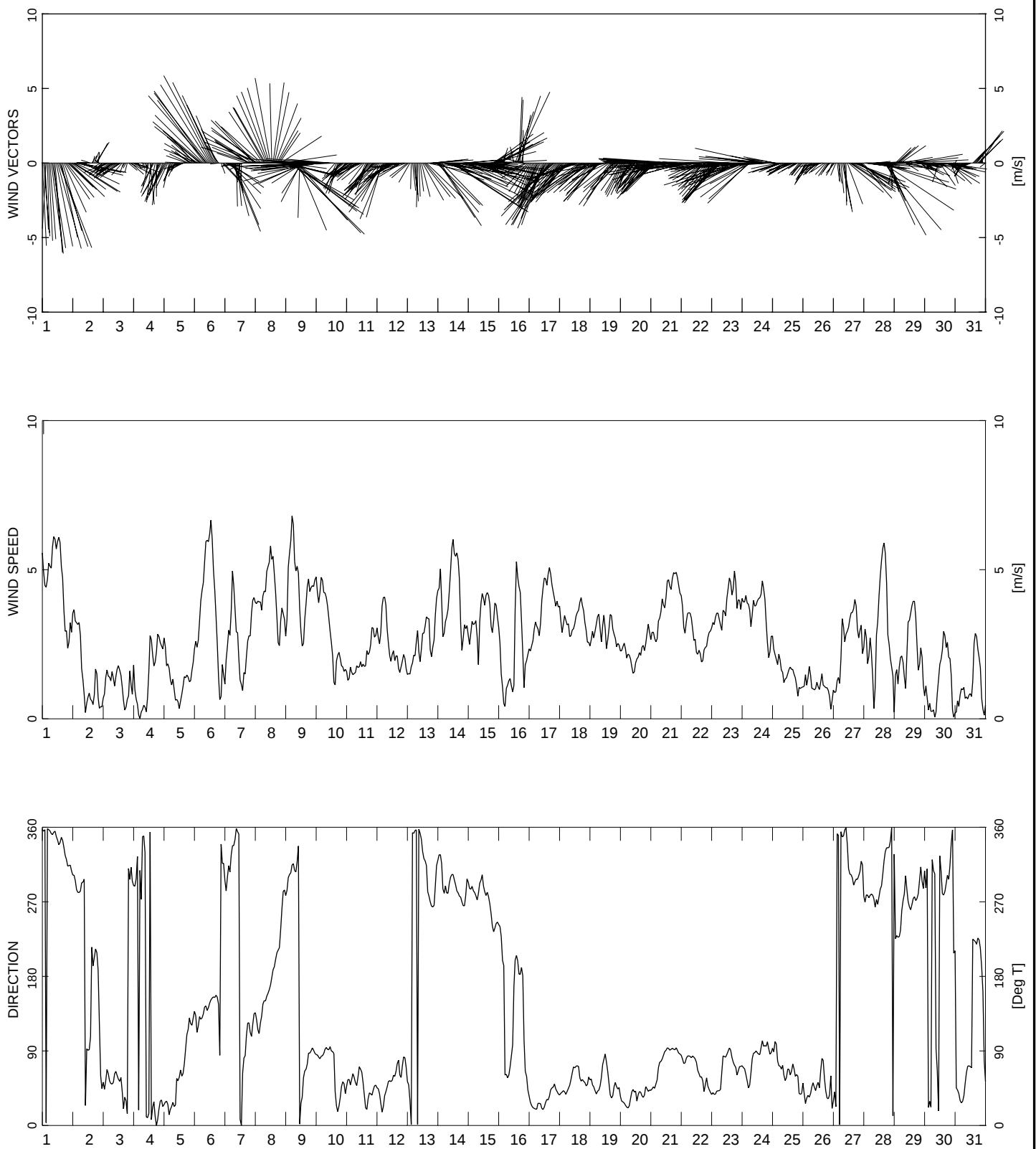
CHK
JAS

REV
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EBA-VANC

DATE
May 2009

Figure B-42



NOTES

CLIENT

YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Data
March 2008**

**EBA Engineering
Consultants Ltd.**



PROJECT NO.
Y22101057

DWN
RED

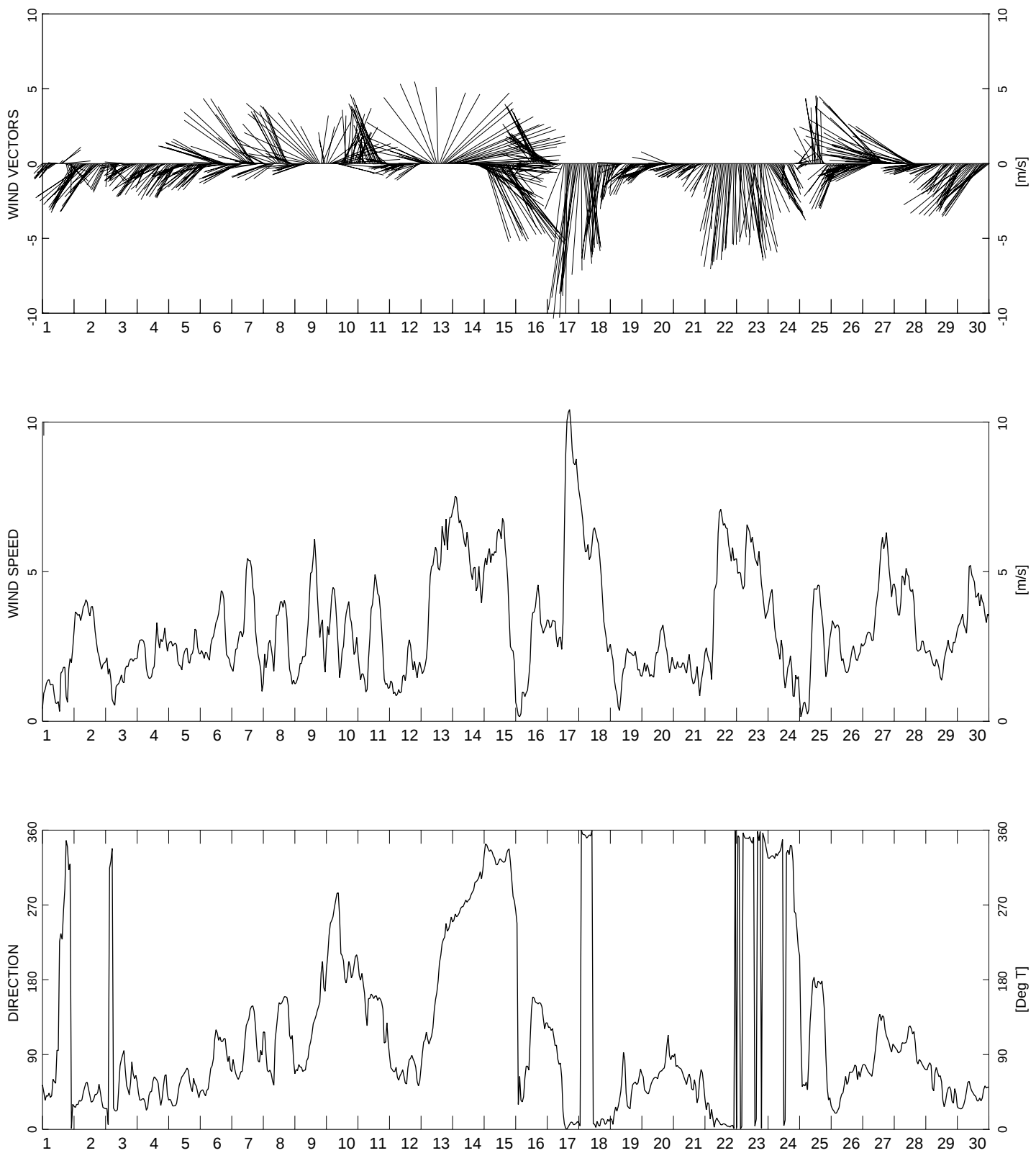
CHK
JAS

REV
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EBA-VANC

DATE
July 2009

Figure B-43



NOTES

CLIENT

YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Data
April 2008**

**EBA Engineering
Consultants Ltd.**



PROJECT NO.
Y22101057

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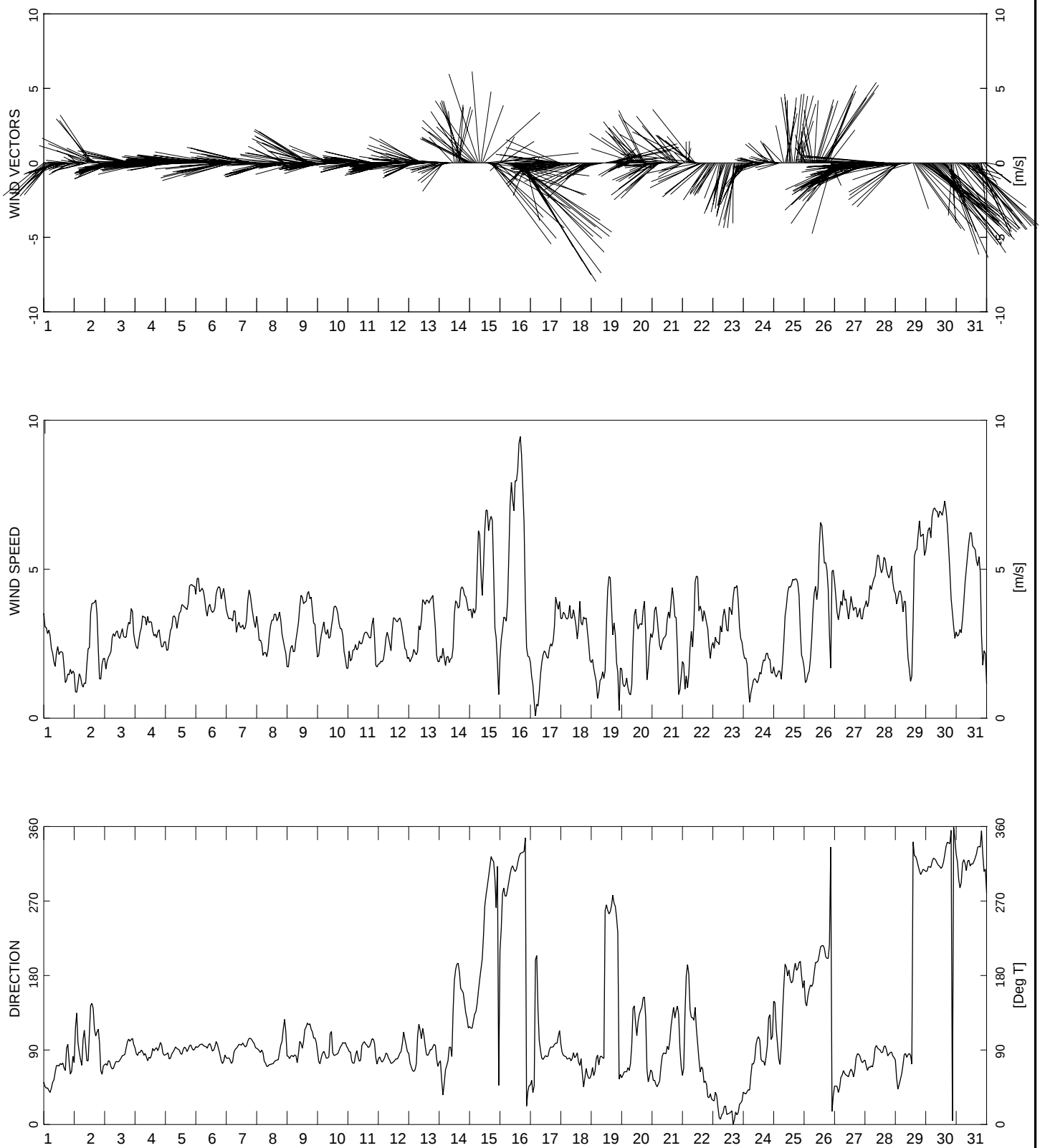
DWN
RED

DATE
July 2009

CHK
JAS

REV
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Figure B-44



NOTES

CLIENT

YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Data
May 2008**

**EBA Engineering
Consultants Ltd.**



PROJECT NO.
Y22101057

DWN
RED

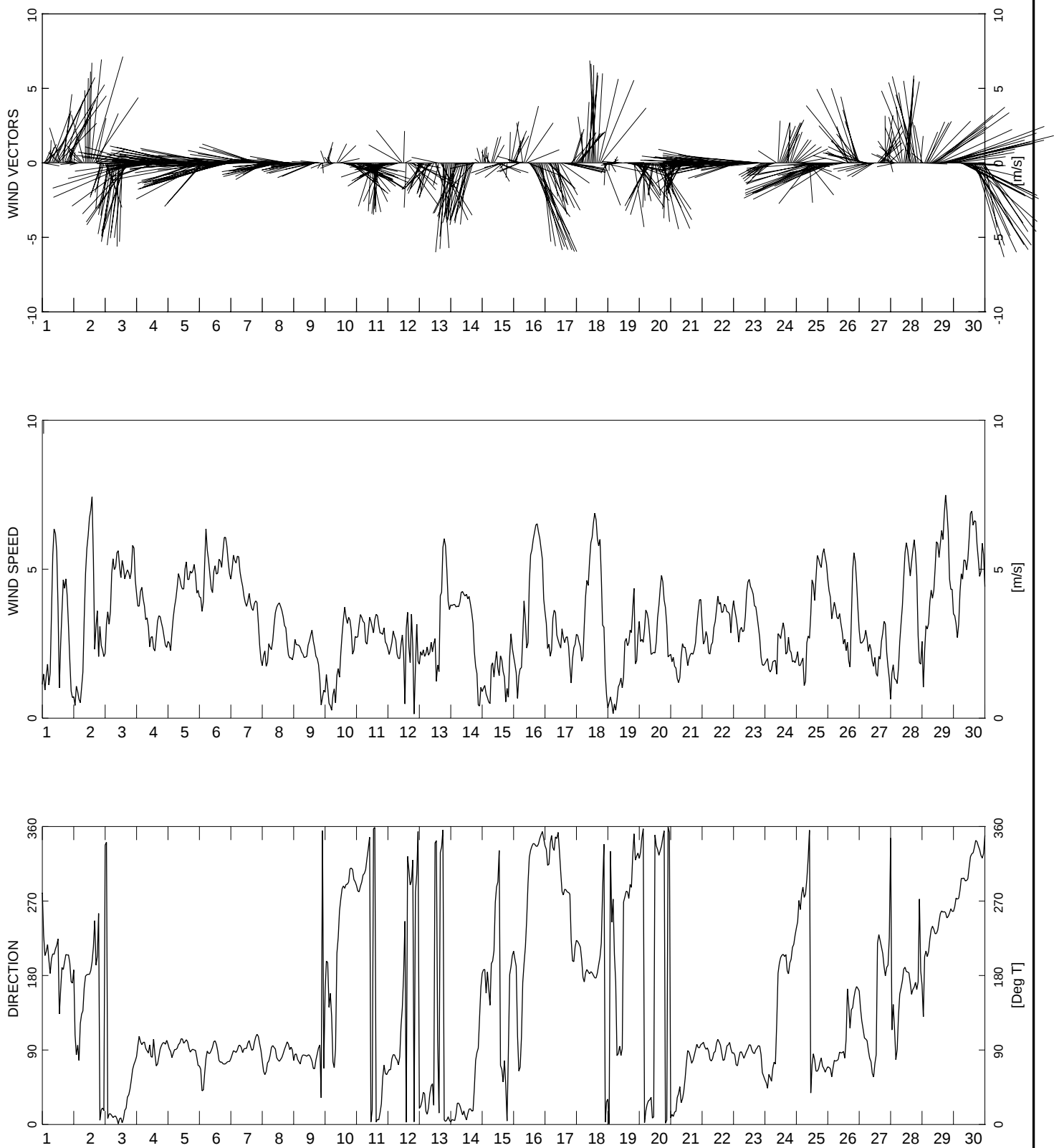
CHK
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REV
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DATE
July 2009

Figure B-45



NOTES

CLIENT

YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Data
June 2008**

**EBA Engineering
Consultants Ltd.**



PROJECT NO.
Y22101057

DWN
RED

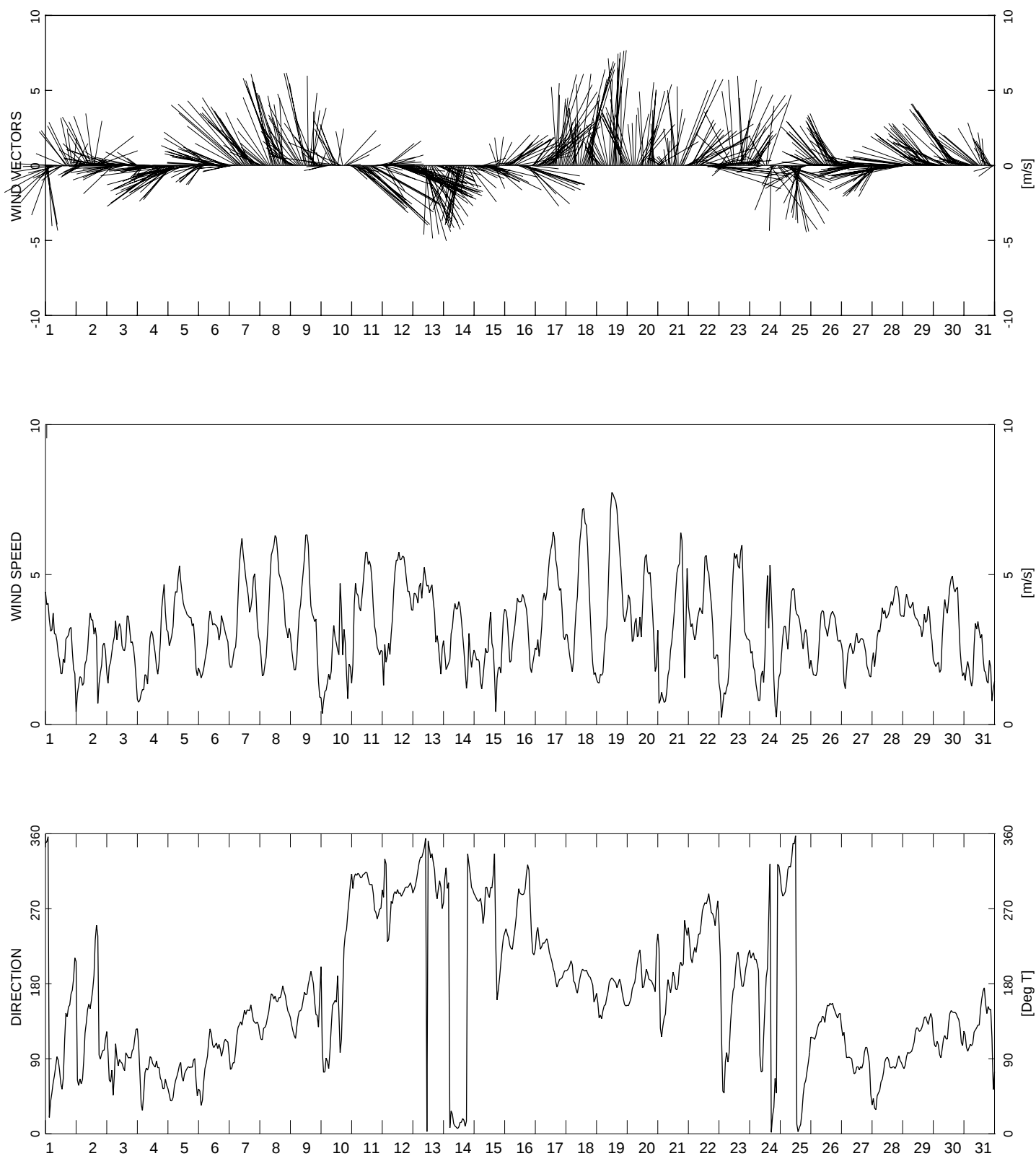
CHK
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REV
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DATE
July 2009

Figure B-46



NOTES

CLIENT

YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Data
July 2008**

**EBA Engineering
Consultants Ltd.**



PROJECT NO.
Y22101057

DWN
RED

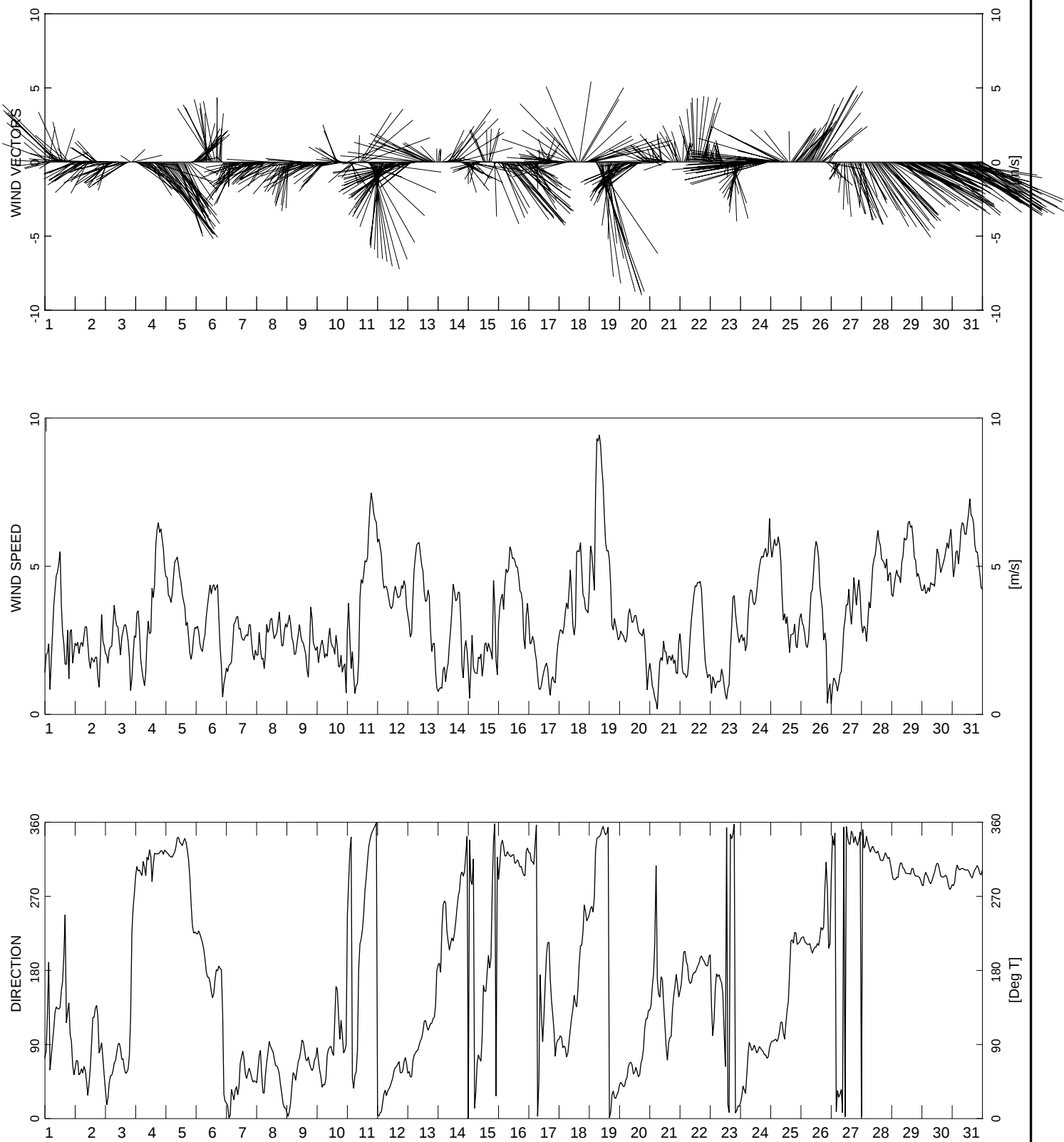
CHK
JAS

REV
0

OFFICE
EBA-VANC

DATE
July 2009

Figure B-47



NOTES

CLIENT

YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Data
August 2008**

**EBA Engineering
Consultants Ltd.**



PROJECT NO.
Y22101057

DWN
RED

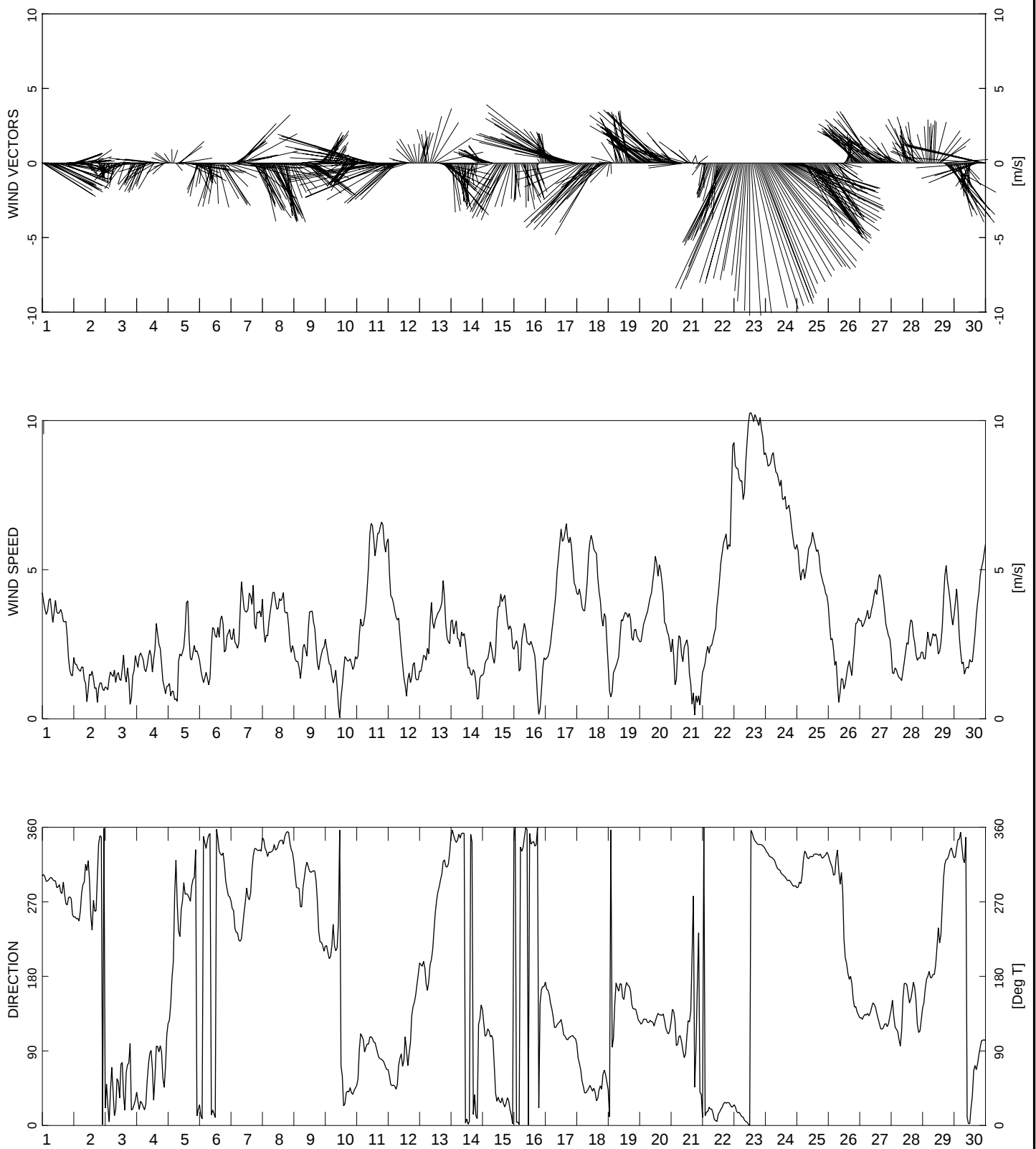
CHK
JAS

REV
0

OFFICE
EBA-VANC

DATE
July 2009

Figure B-48



NOTES

CLIENT

YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Data
September 2008**

**EBA Engineering
Consultants Ltd.**



PROJECT NO.
Y22101057

DWN
RED

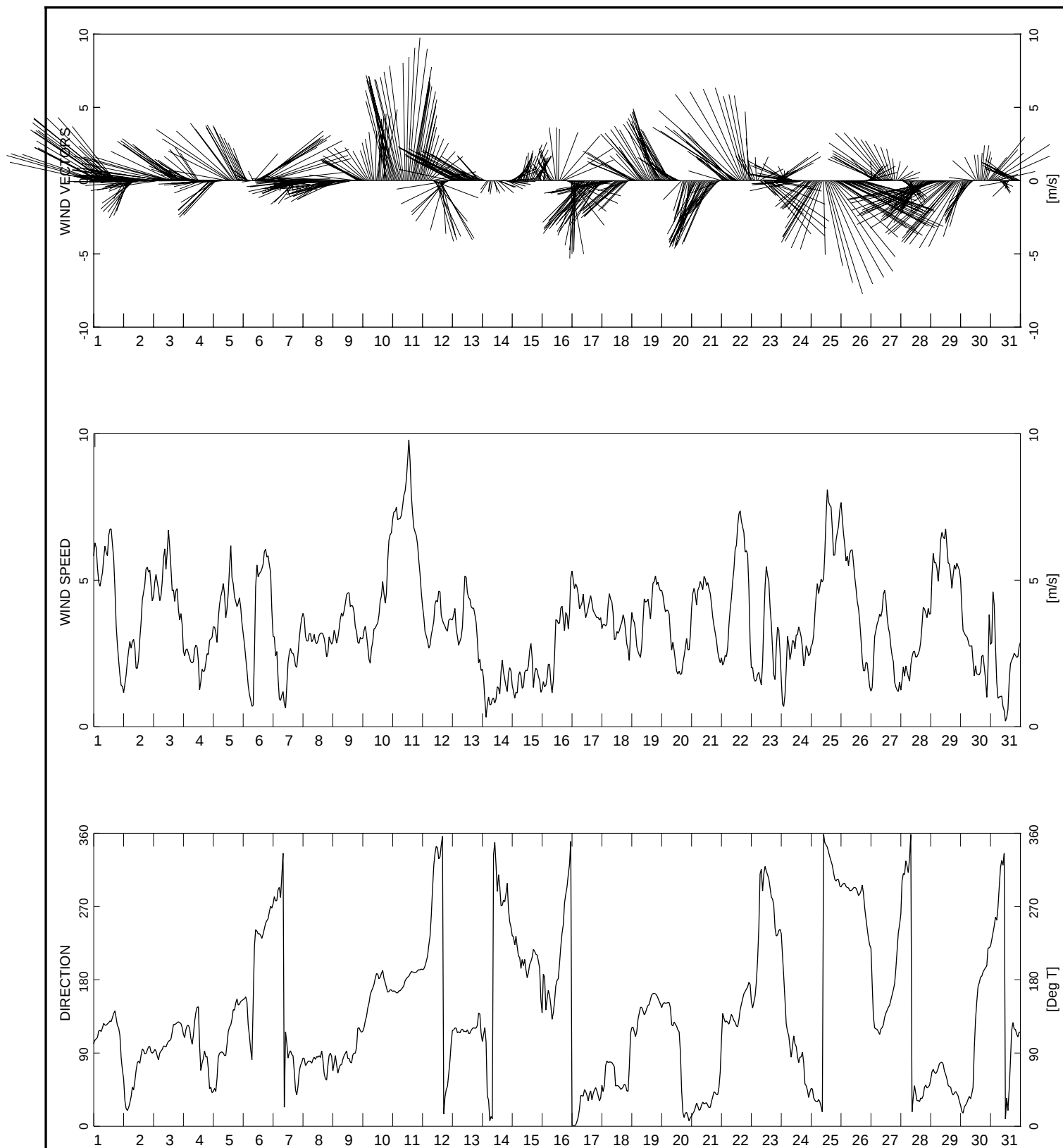
CHK
JAS

REV
0

OFFICE
EBA-VANC

DATE
July 2009

Figure B-49



NOTES

CLIENT

YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Data
October 2008**

**EBA Engineering
Consultants Ltd.**



PROJECT NO.
Y22101057

DWN
RED

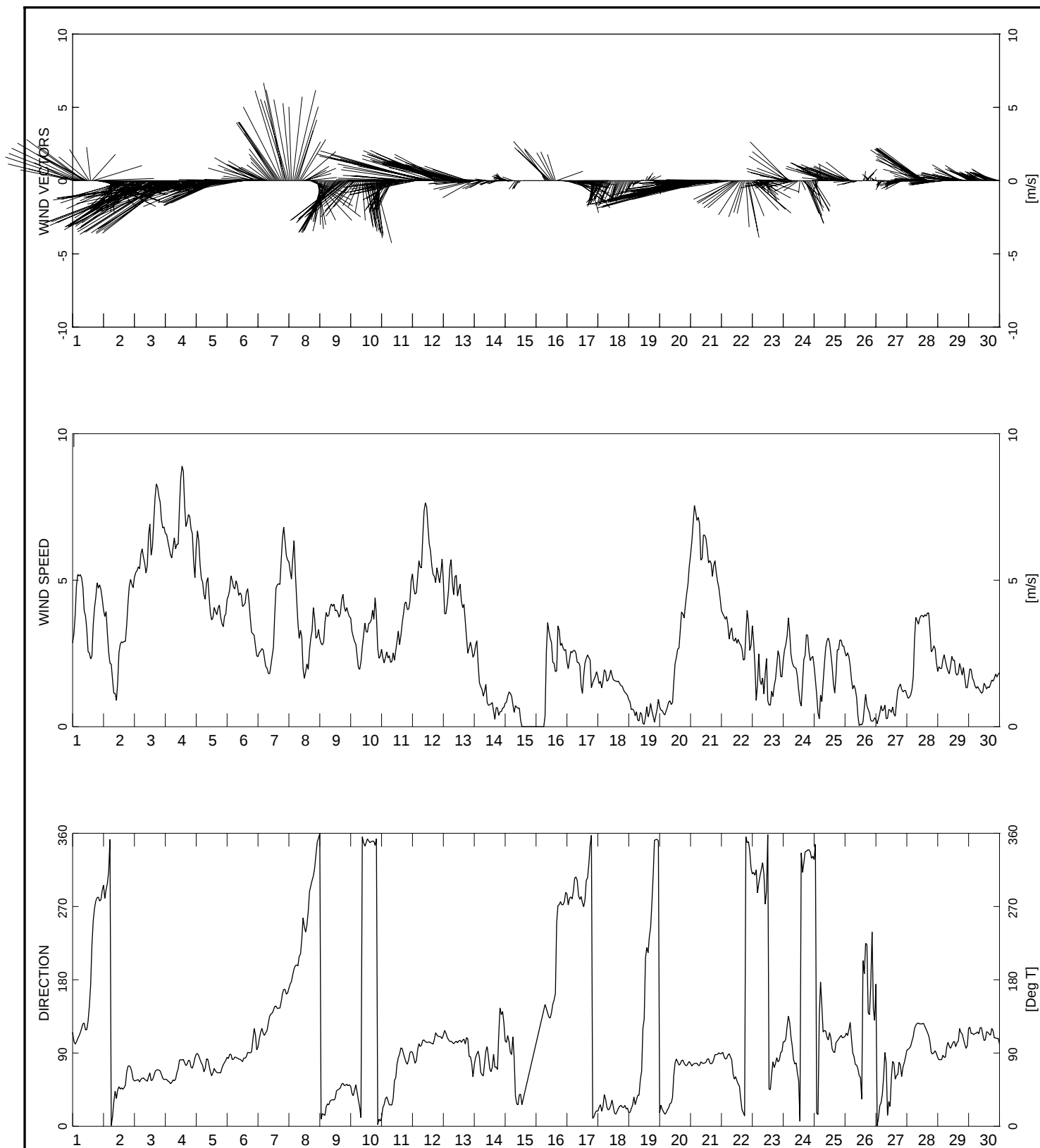
CHK
JAS

REV
0

OFFICE
EBA-VANC

DATE
July 2009

Figure B-50



NOTES

CLIENT

YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Data
November 2008**

**EBA Engineering
Consultants Ltd.**



PROJECT NO.
Y22101057

DWN
RED

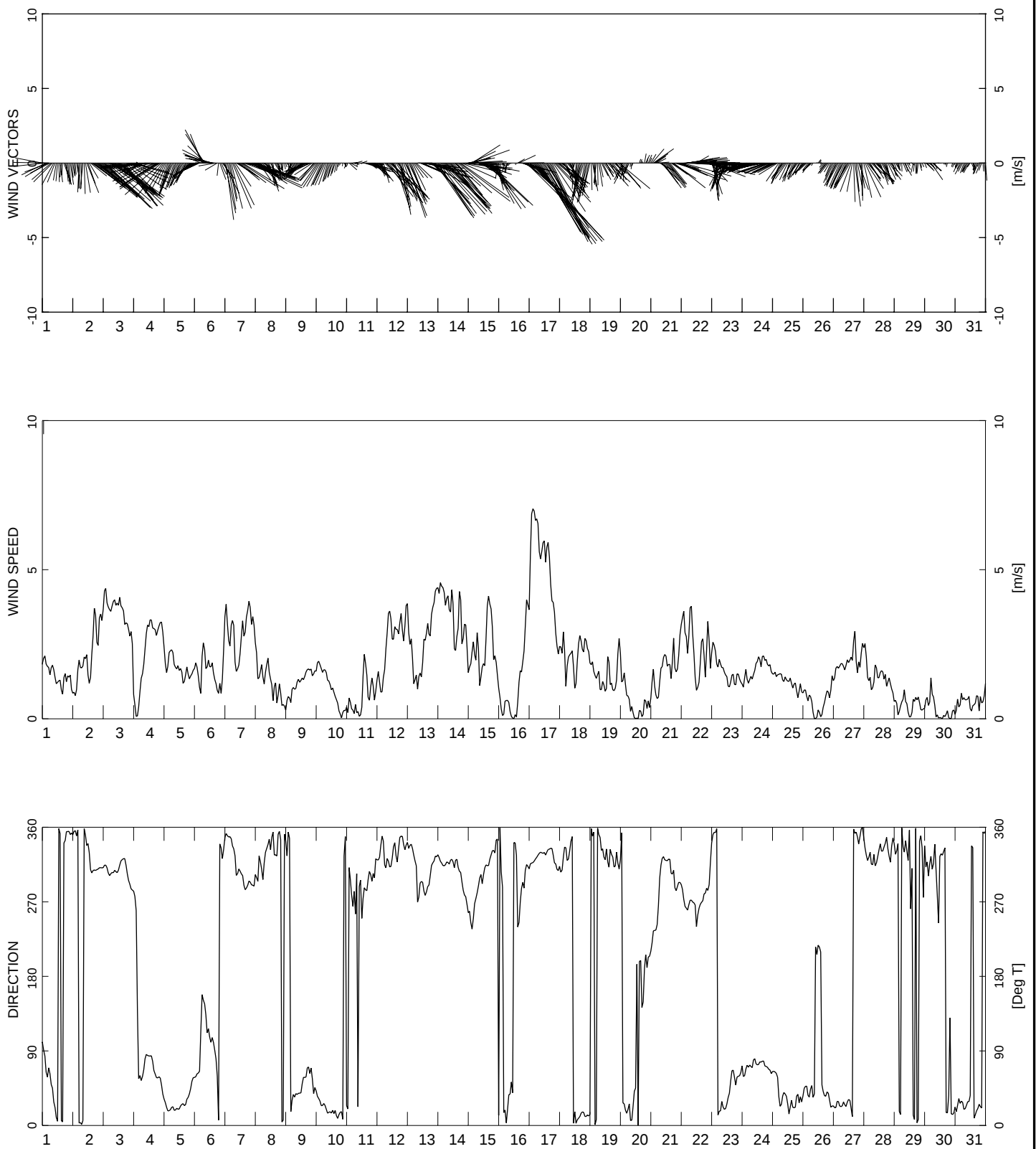
CHK
JAS

REV
0

OFFICE
EBA-VANC

DATE
July 2009

Figure B-51



NOTES

CLIENT

YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Data
December 2008**

**EBA Engineering
Consultants Ltd.**



PROJECT NO.
Y22101057

DWN
RED

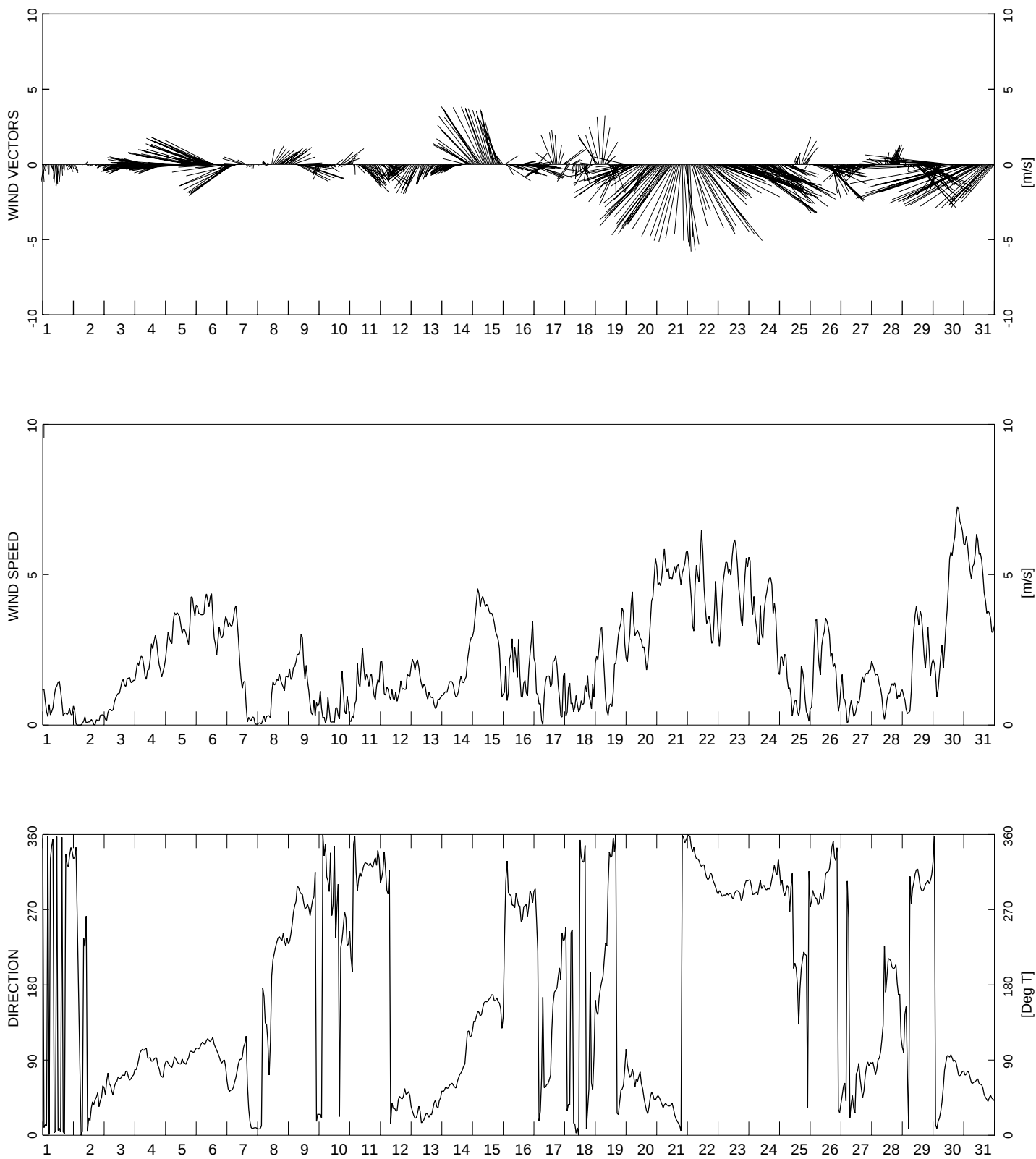
CHK
JAS

REV
0

OFFICE
EBA-VANC

DATE
July 2009

Figure B-52



CLIENT



**EBA Engineering
Consultants Ltd.**



YELLOWKNIFE GOLD PROJECT 2009 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Data
January 2009**

PROJECT NO.
Y22101103

OFFICE
EBA-VANC

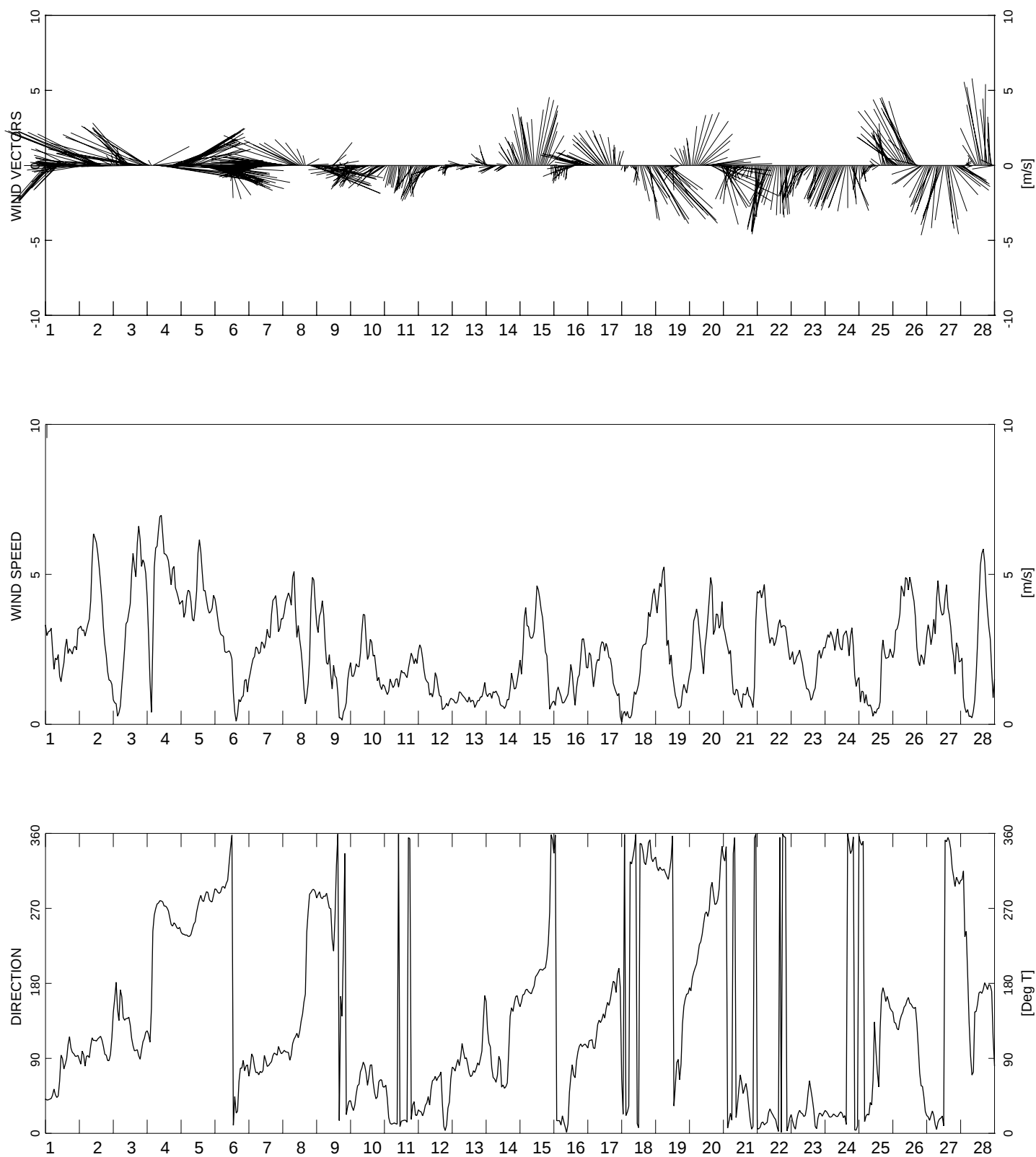
DWN
RED

CHK
JAS

REV
0

DATE
February 2010

Figure B-53



CLIENT



**EBA Engineering
Consultants Ltd.**



YELLOWKNIFE GOLD PROJECT 2009 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Data
February 2009**

PROJECT NO.
Y22101103

DWN
RED

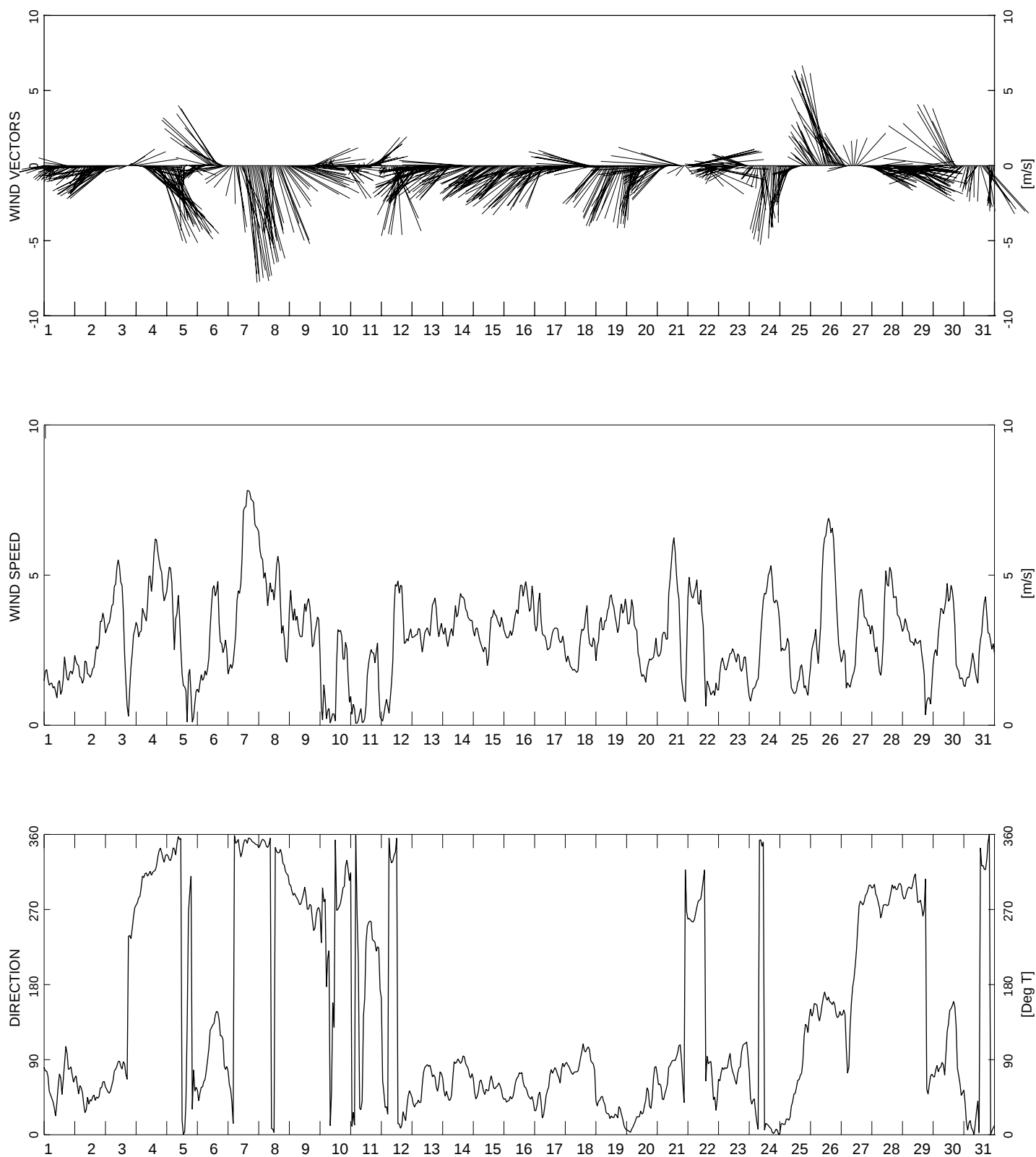
CHK
JAS

REV
0

OFFICE
EBA-VANC

DATE
February 2010

Figure B-54



CLIENT



**EBA Engineering
Consultants Ltd.**



YELLOWKNIFE GOLD PROJECT 2009 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Data
March 2009**

PROJECT NO.
Y22101103

DWN
RED

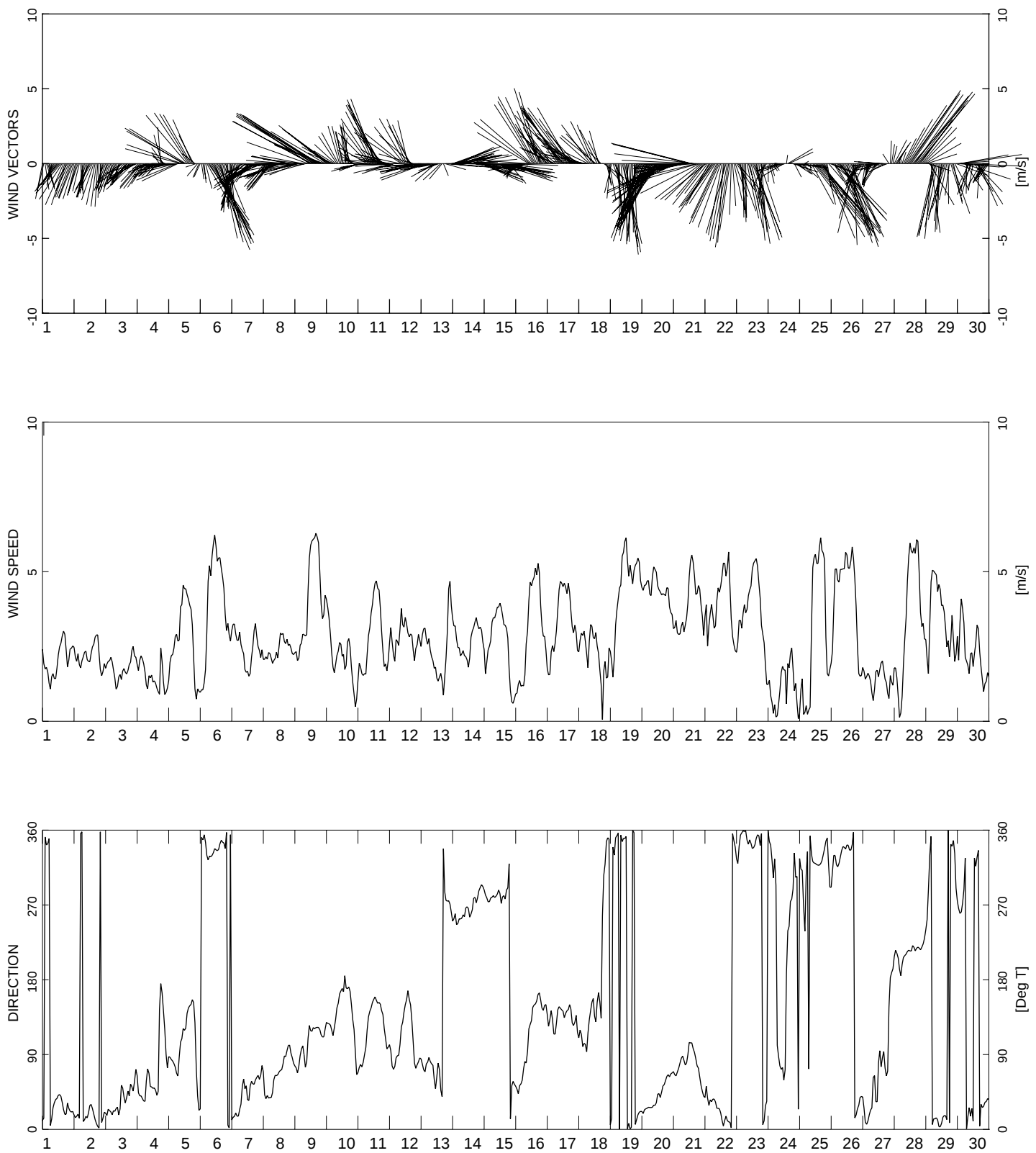
CHK
JAS

REV
0

OFFICE
EBA-VANC

DATE
February 2010

Figure B-55



CLIENT



**EBA Engineering
Consultants Ltd.**



YELLOWKNIFE GOLD PROJECT 2009 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Data
April 2009**

PROJECT NO.
Y22101103

DWN
RED

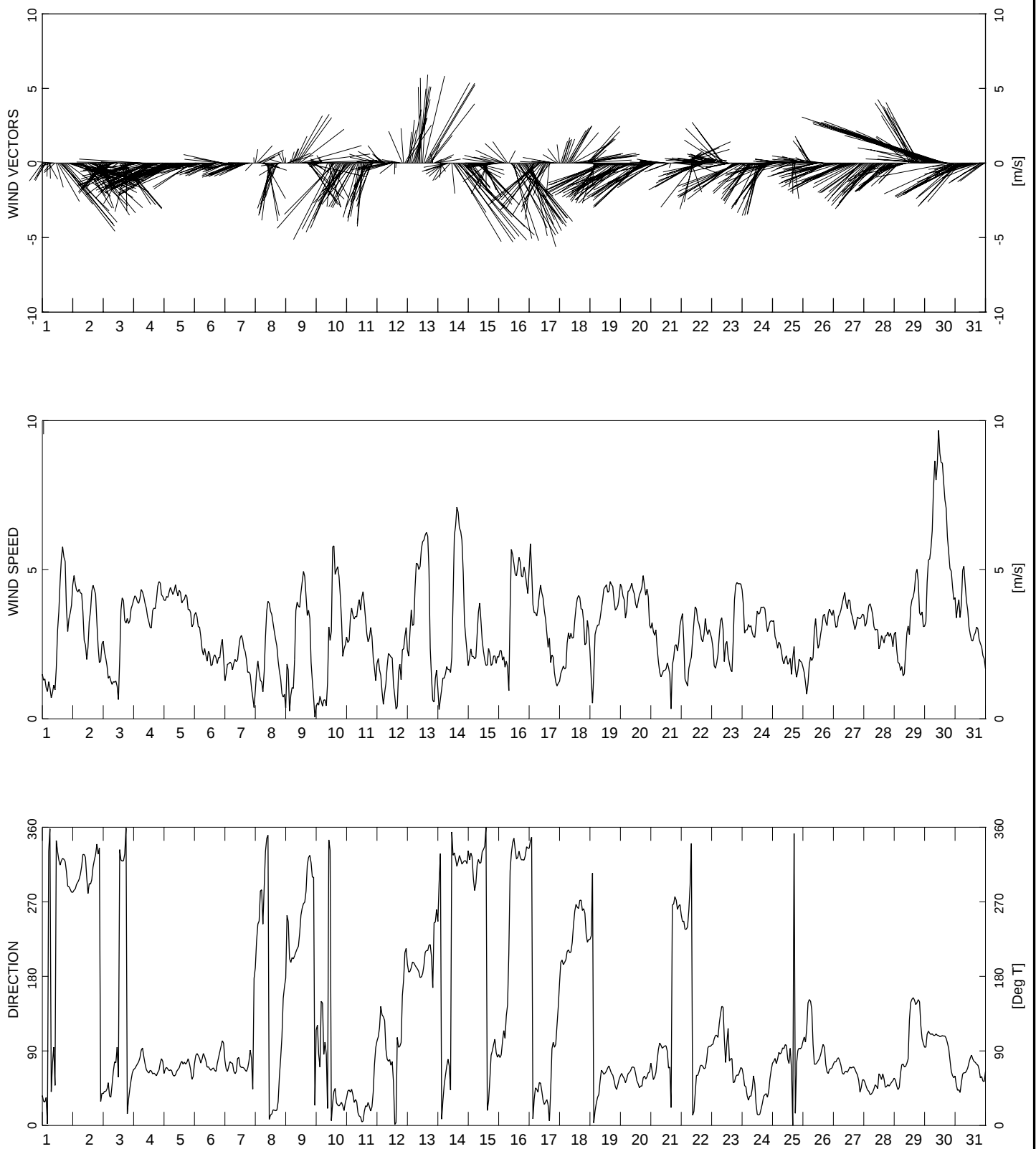
CHK
JAS

REV
0

OFFICE
EBA-VANC

DATE
February 2010

Figure B-56



CLIENT



EBA Engineering Consultants Ltd. 

YELLOWKNIFE GOLD PROJECT 2009 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Data
May 2009**

PROJECT NO.
Y22101103

OFFICE
EBA-VANC

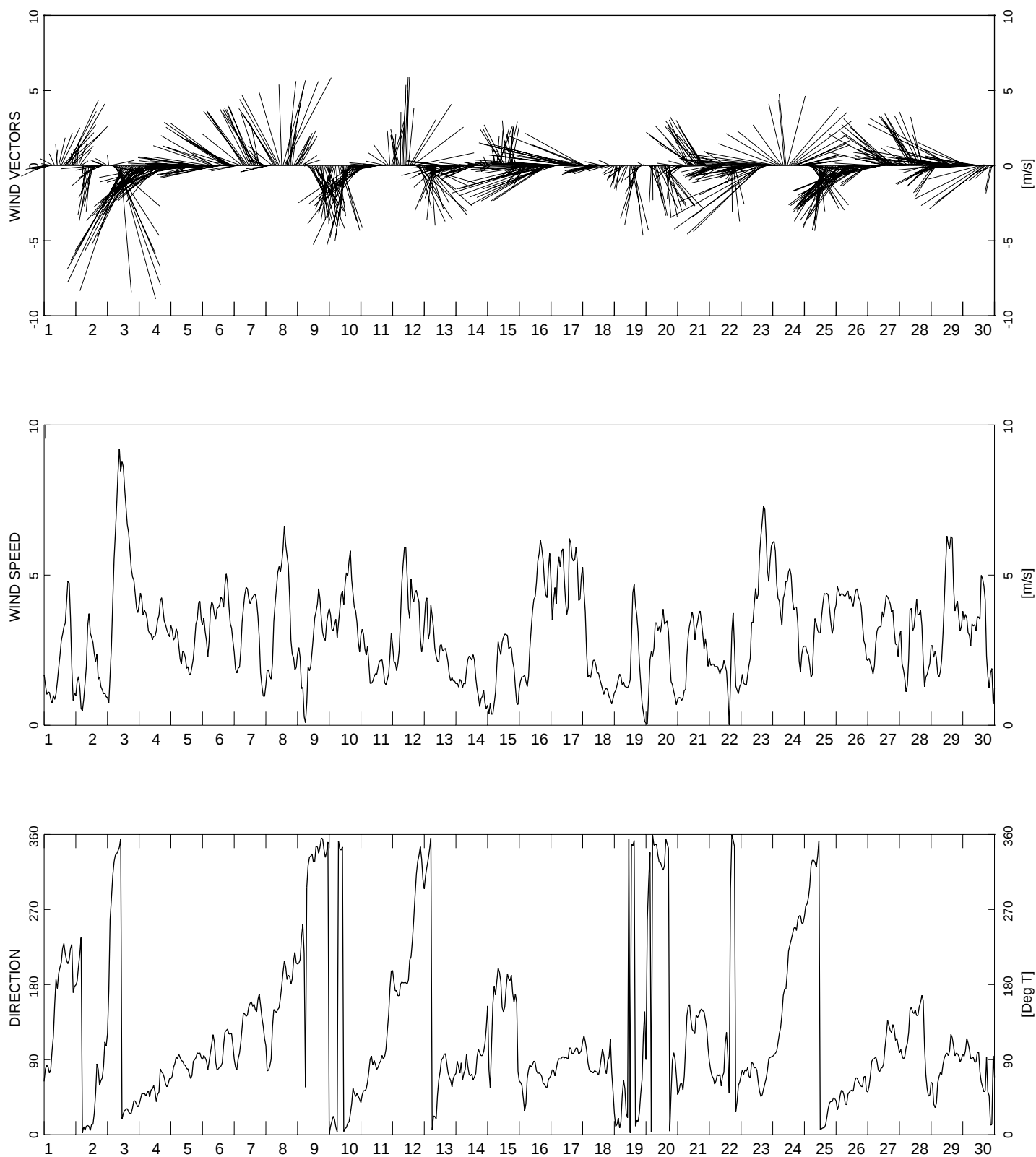
DWN
RED

DATE
February 2010

CHK
JAS

REV
0

Figure B-57



CLIENT



**EBA Engineering
Consultants Ltd.**



YELLOWKNIFE GOLD PROJECT 2009 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Data
June 2009**

PROJECT NO.
Y22101103

DWN
RED

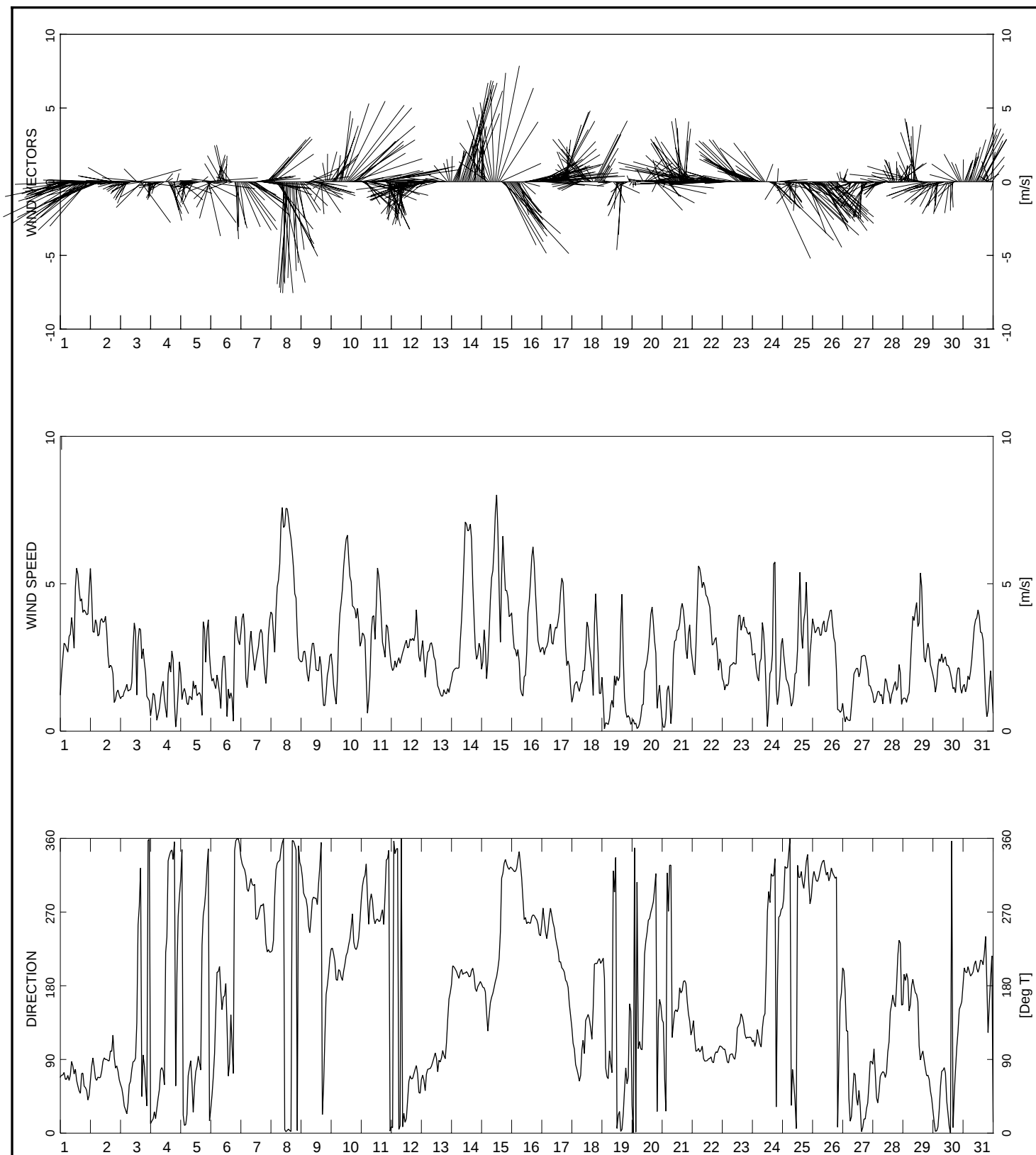
CHK
JAS

REV
0

OFFICE
EBA-VANC

DATE
February 2010

Figure B-58



CLIENT



EBA Engineering Consultants Ltd.



YELLOWKNIFE GOLD PROJECT 2009 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Data
July 2009**

PROJECT NO.
Y22101103

DWN
RED

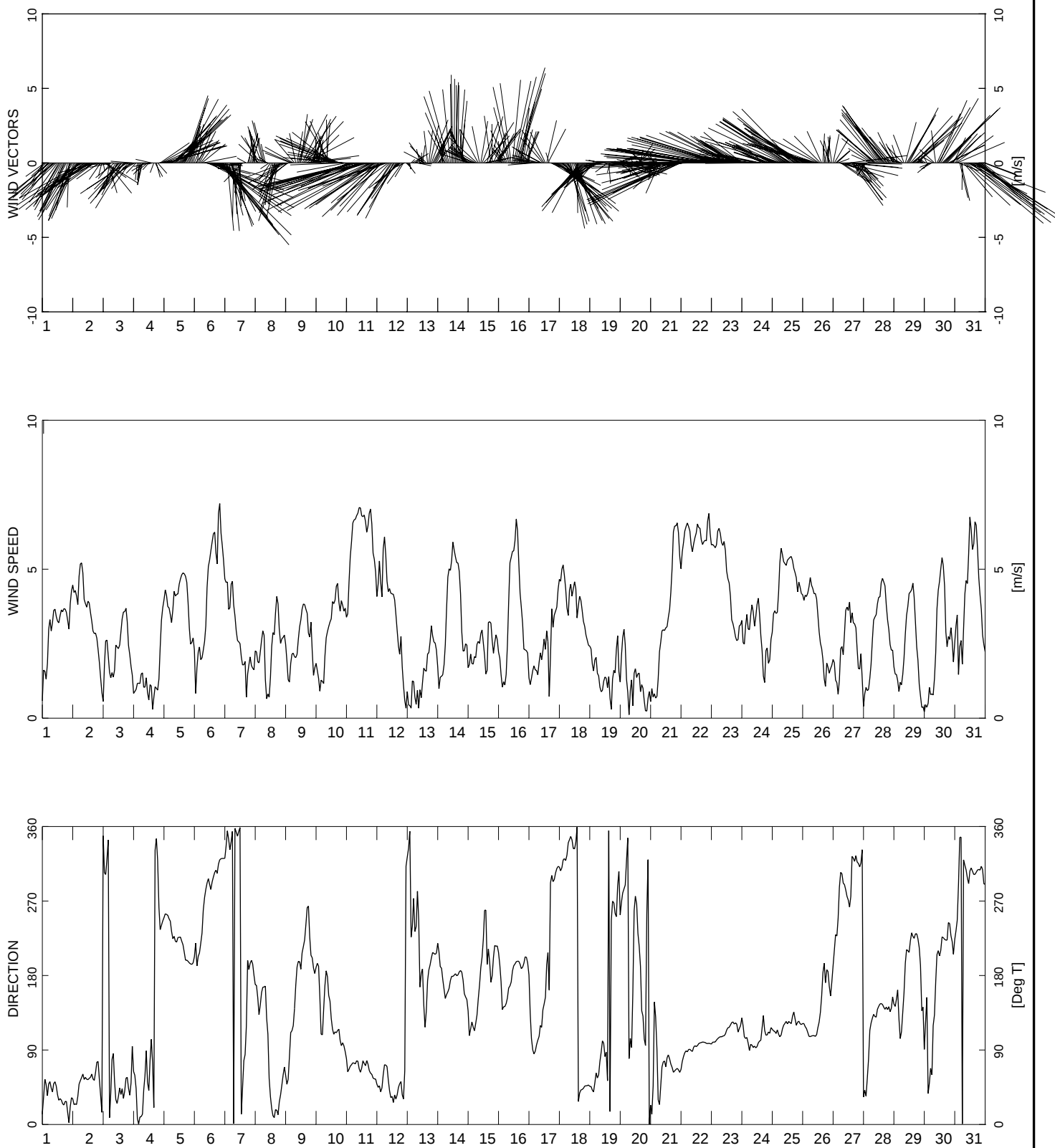
CHK
JAS

REV
0

OFFICE
EBA-VANC

DATE
February 2010

Figure B-59



CLIENT



**EBA Engineering
Consultants Ltd.**



YELLOWKNIFE GOLD PROJECT 2009 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Data
August 2009**

PROJECT NO.
Y22101103

DWN
RED

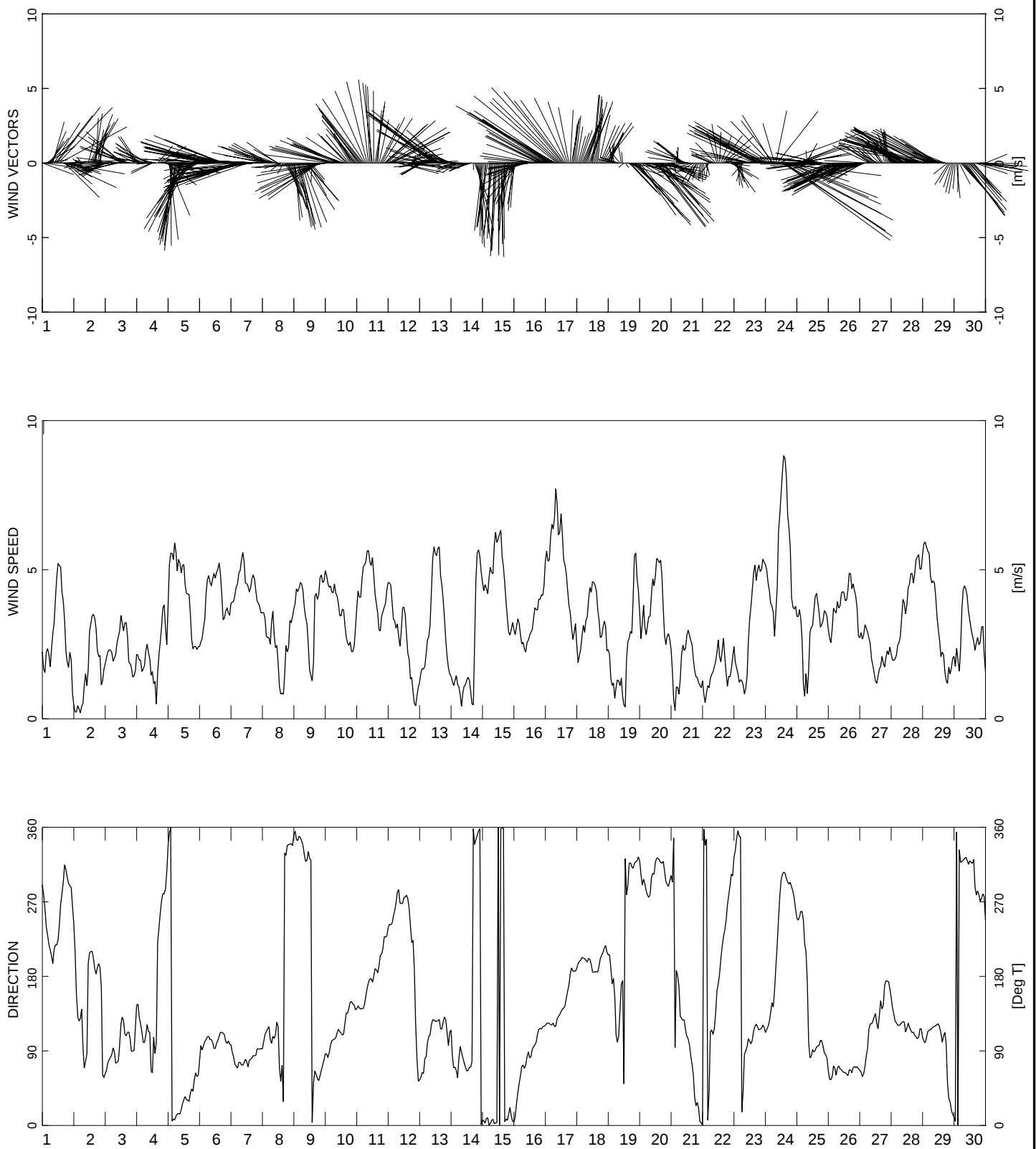
CHK
JAS

REV
0

OFFICE
EBA-VANC

DATE
February 2010

Figure B-60



CLIENT



**EBA Engineering
Consultants Ltd.**



YELLOWKNIFE GOLD PROJECT 2009 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Data
September 2009**

PROJECT NO.
Y22101103

OFFICE
EBA-VANC

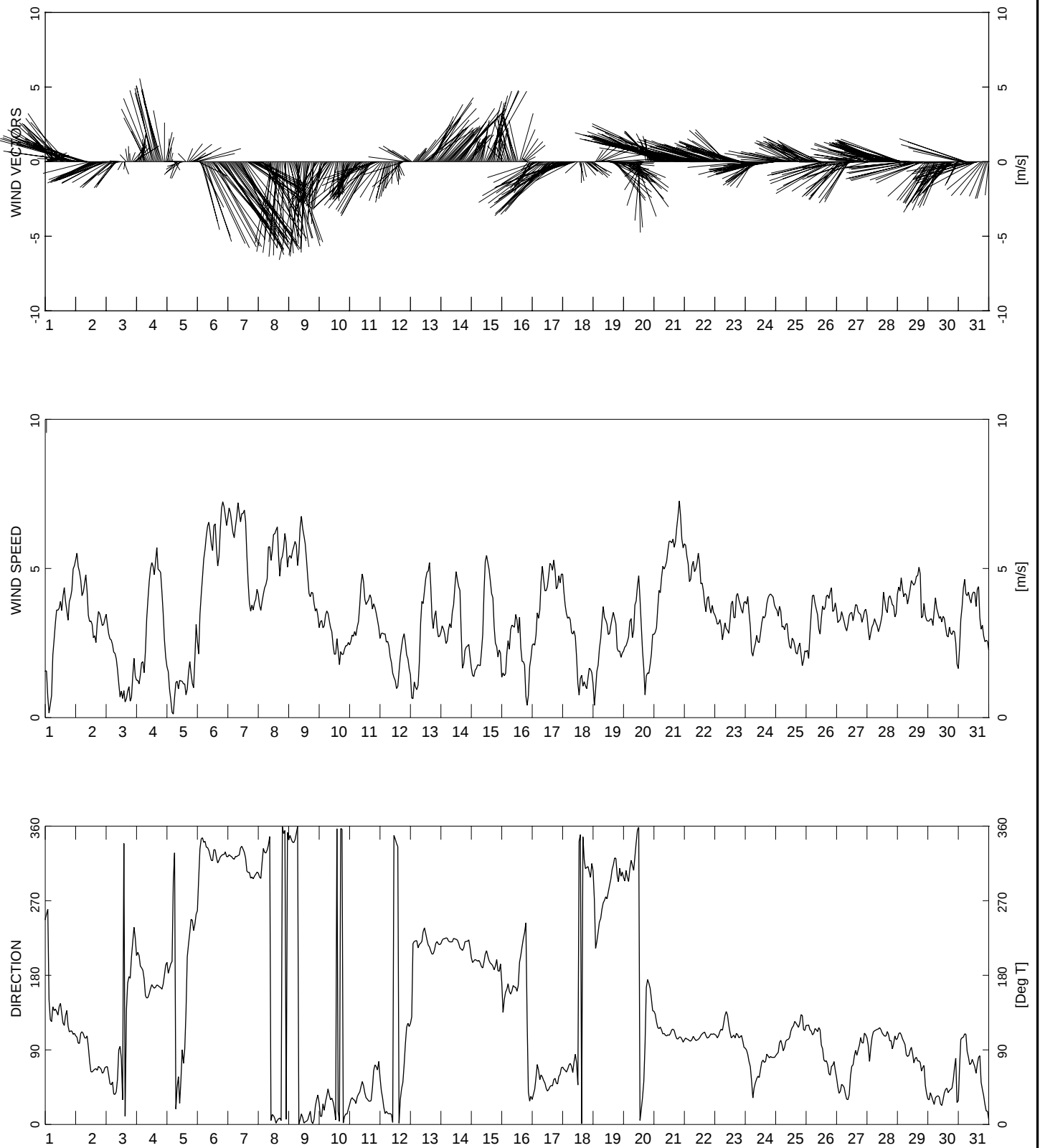
DWN
RED

CHK
JAS

REV
0

DATE
February 2010

Figure B-61



CLIENT



**EBA Engineering
Consultants Ltd.**



YELLOWKNIFE GOLD PROJECT 2009 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Data
October 2009**

PROJECT NO.
Y22101103

DWN
RED

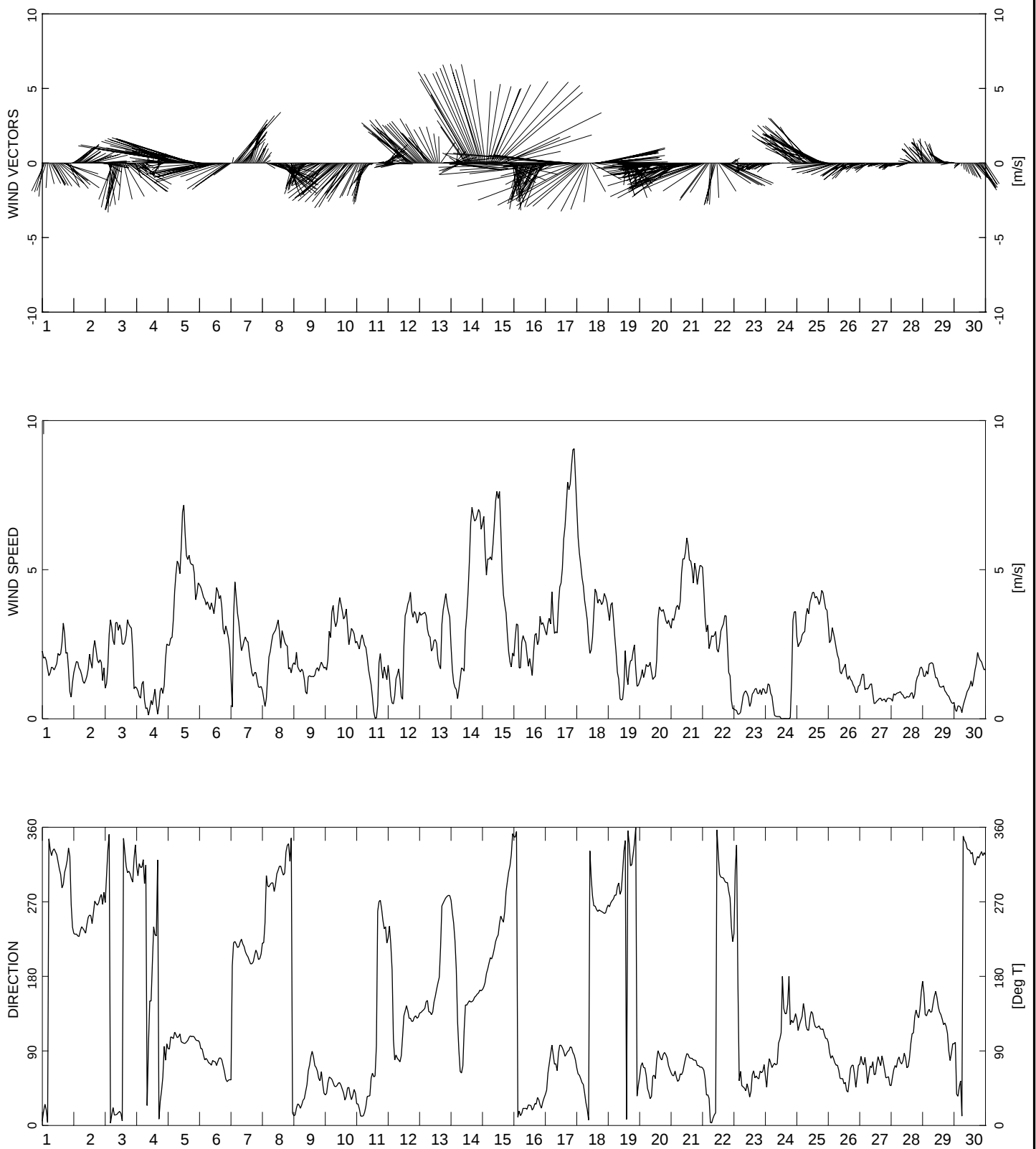
CHK
JAS

REV
0

OFFICE
EBA-VANC

DATE
February 2010

Figure B-62



CLIENT



**EBA Engineering
Consultants Ltd.**



YELLOWKNIFE GOLD PROJECT 2009 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Data
November 2009**

PROJECT NO.
Y22101103

DWN
RED

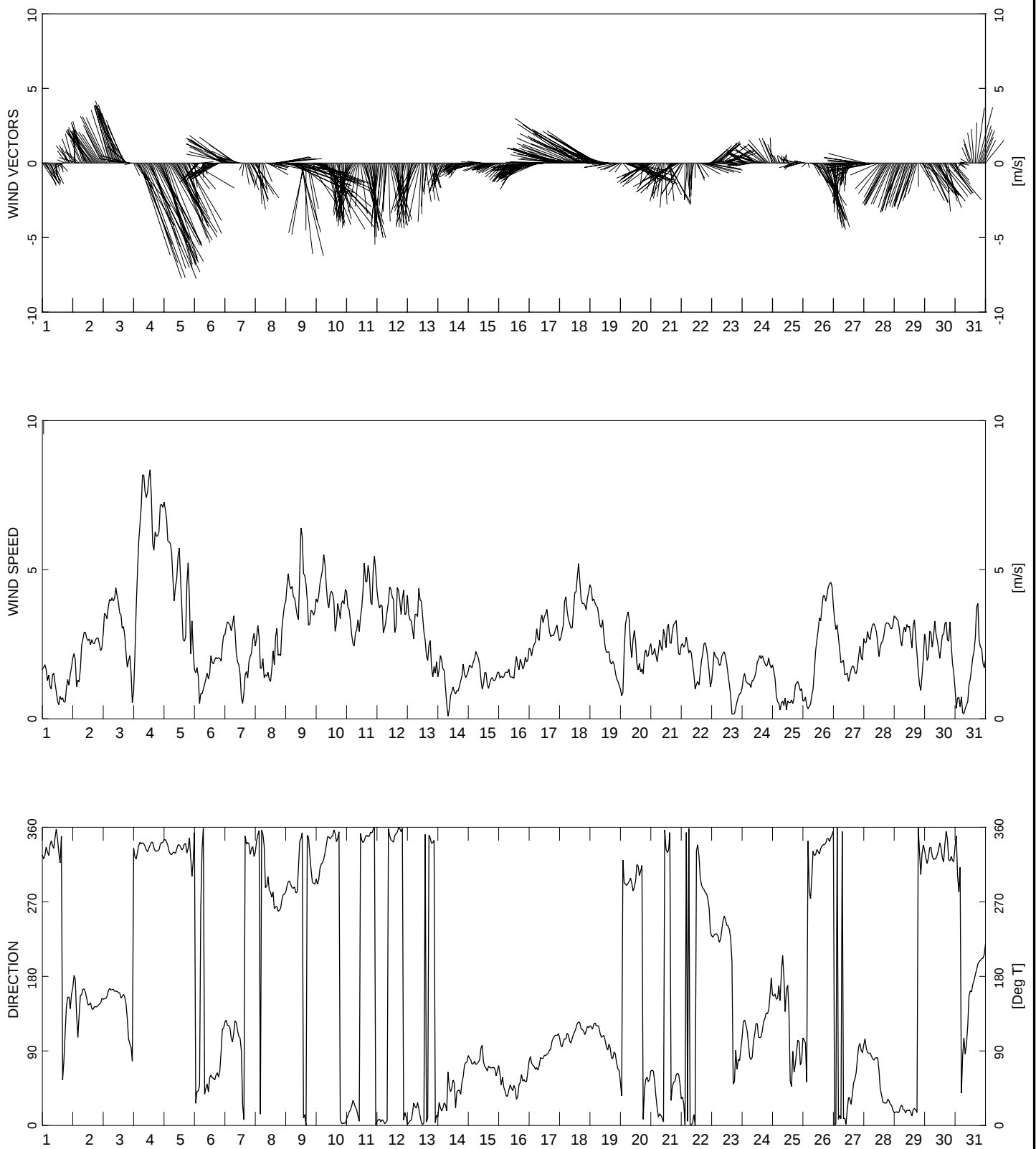
CHK
JAS

REV
0

OFFICE
EBA-VANC

DATE
February 2010

Figure B-63



CLIENT



EBA Engineering Consultants Ltd. 

YELLOWKNIFE GOLD PROJECT 2009 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Data
December 2009**

PROJECT NO.
Y22101103

OFFICE
EBA-VANC

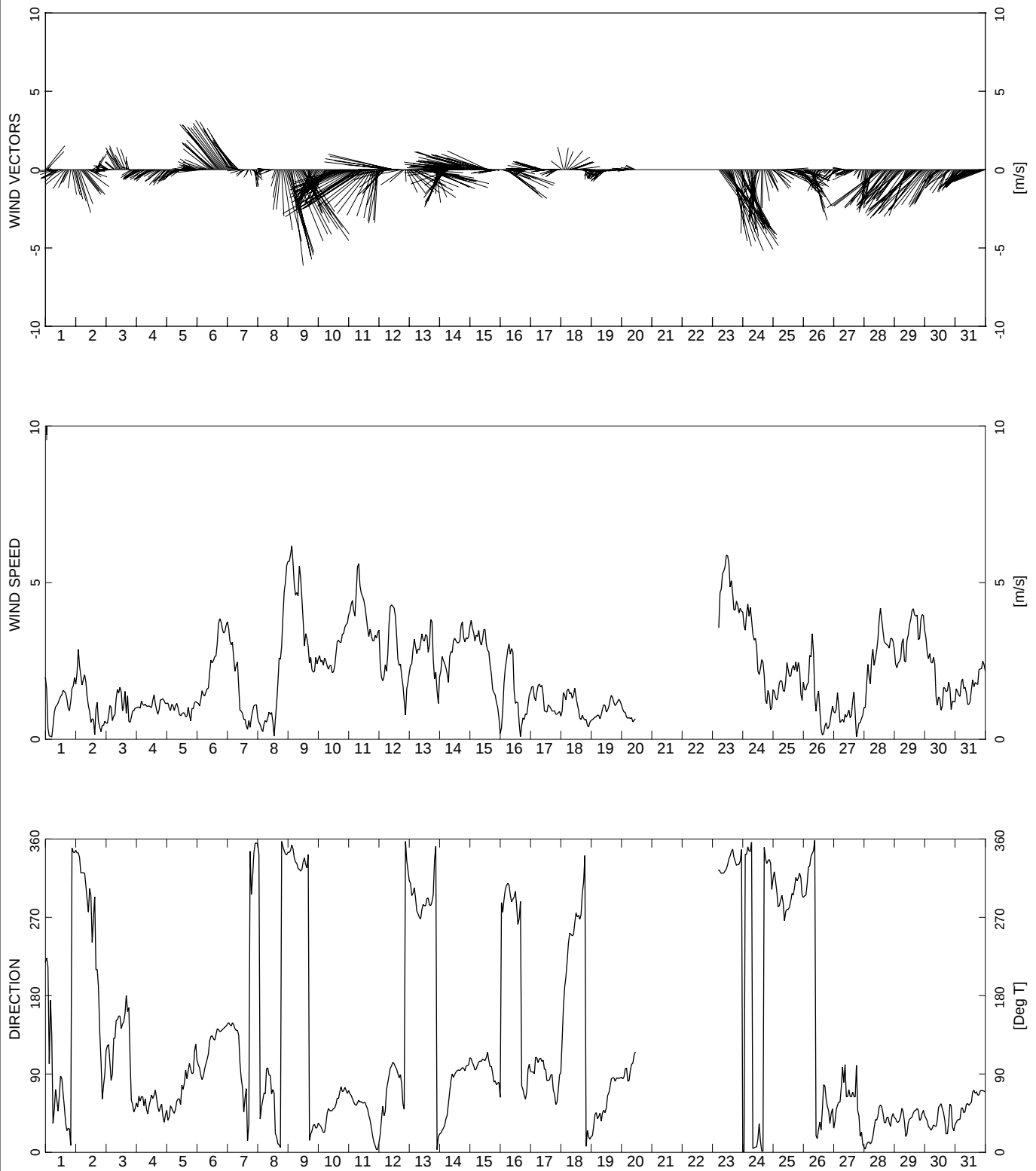
DWN
RED

DATE
February 2010

CHK
JAS

REV
0

Figure B-64



NOTES

Ice affected wind data has been removed
from January 20, 2010 @ 10:15 hr.
to January 23, 2010 @ 5:30 hr.

STATUS
ISSUED FOR USE

CLIENT

Tyhee NWT Corp

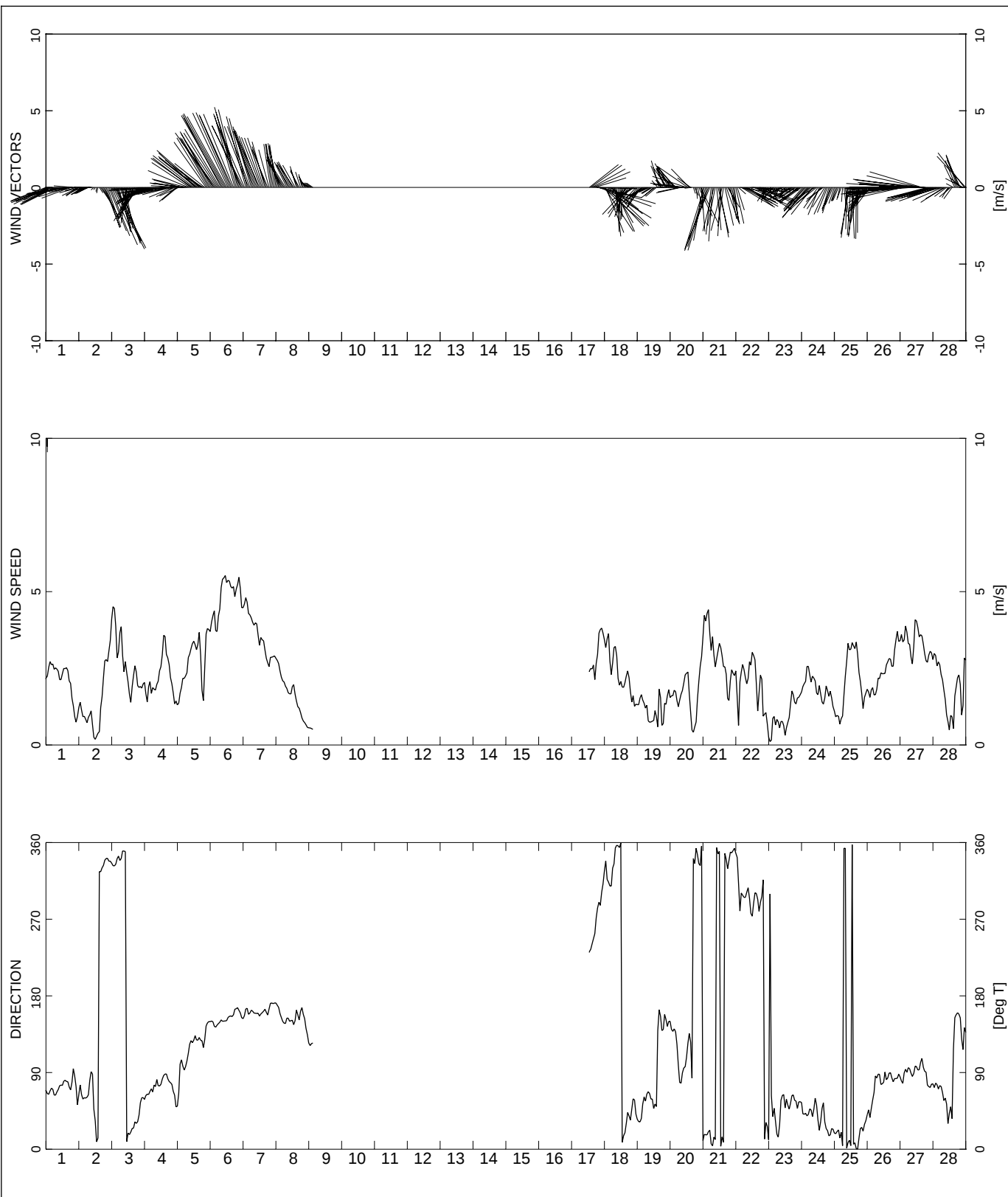
eba
A TETRA TECH COMPANY

YELLOWKNIFE GOLD PROJECT 2010 HYDROMETEOROLOGICAL REPORT

Tyhee Station Wind Data January 2010

PROJECT NO. Y22101170	DWN RED	CHK JAS	APVD JAS	REV 0
OFFICE EBA-VANC	DATE January 2011			

Figure B-65



NOTES

Ice affected wind data has been removed
from February 9, 2010 @ 2:30 hr.
to February 17, 2010 @ 13:45 hr.

STATUS
ISSUED FOR USE

CLIENT

Tyhee NWT Corp

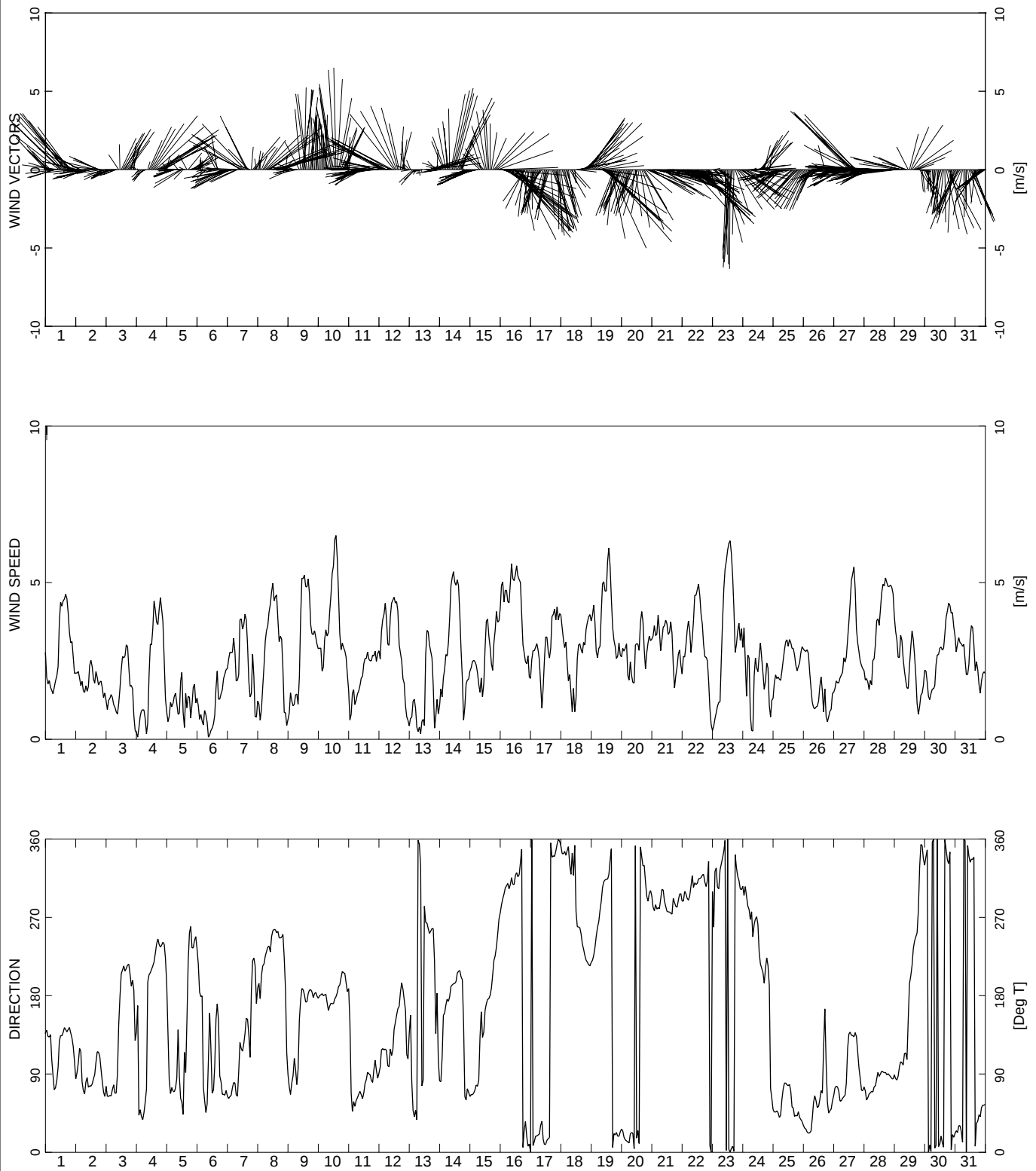
eba
A TETRA TECH COMPANY

YELLOWKNIFE GOLD PROJECT 2010 HYDROMETEOROLOGICAL REPORT

Tyhee Station Wind Data February 2010

PROJECT NO. Y22101170	DWN RED	CHK JAS	APVD JAS	REV 0
OFFICE EBA-VANC	DATE January 2011			

Figure B-66



NOTES

CLIENT



YELLOWKNIFE GOLD PROJECT 2010 HYDROMETEOROLOGICAL REPORT

Tyhee Station Wind Data March 2010

STATUS
ISSUED FOR USE



PROJECT NO.
Y22101170

OFFICE
EBA-VANC

DWN
RED

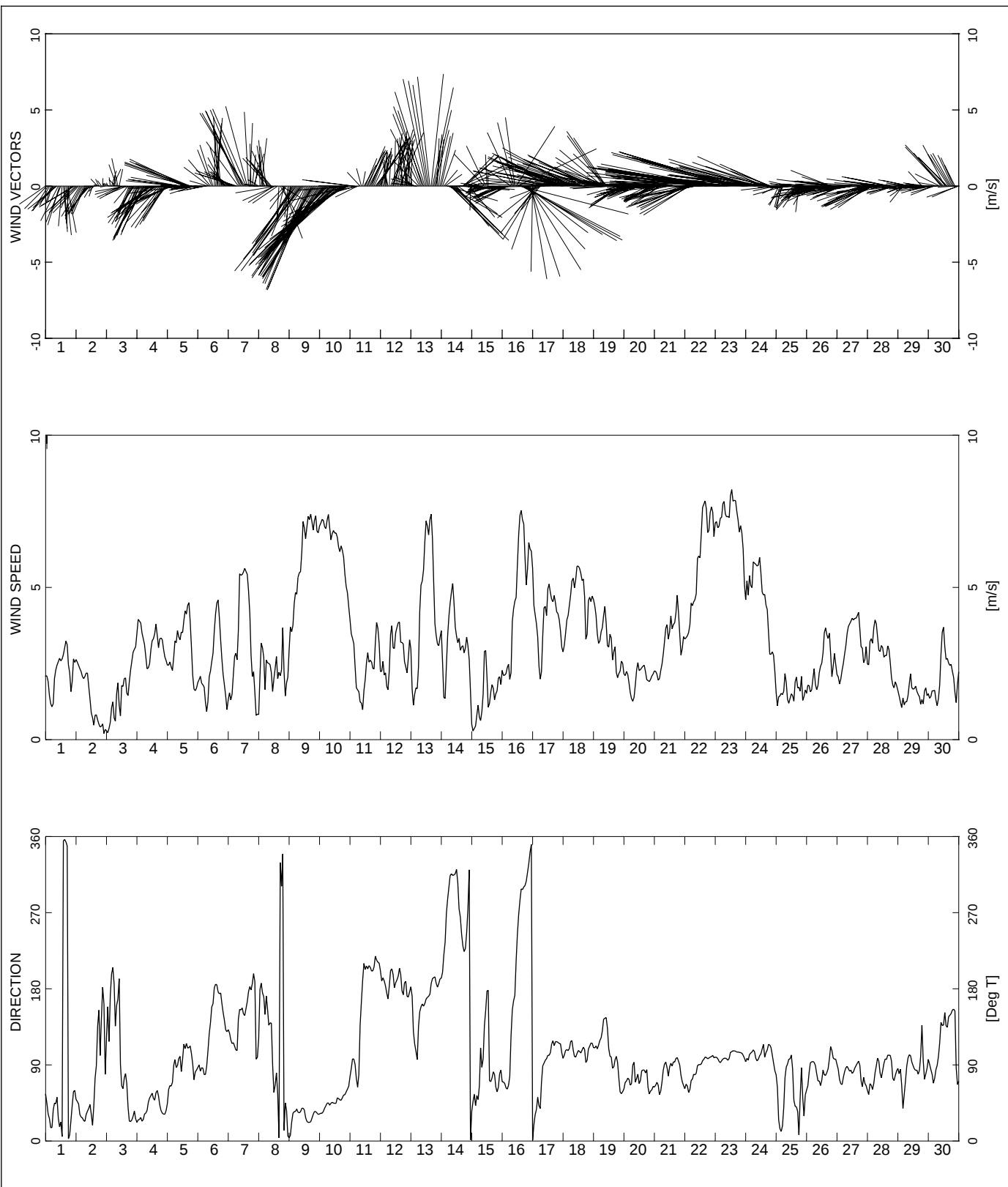
DATE
January 2011

CHK
JAS

APVD
JAS

REV
0

Figure B-67



NOTES

CLIENT

Tyhee NWT Corp



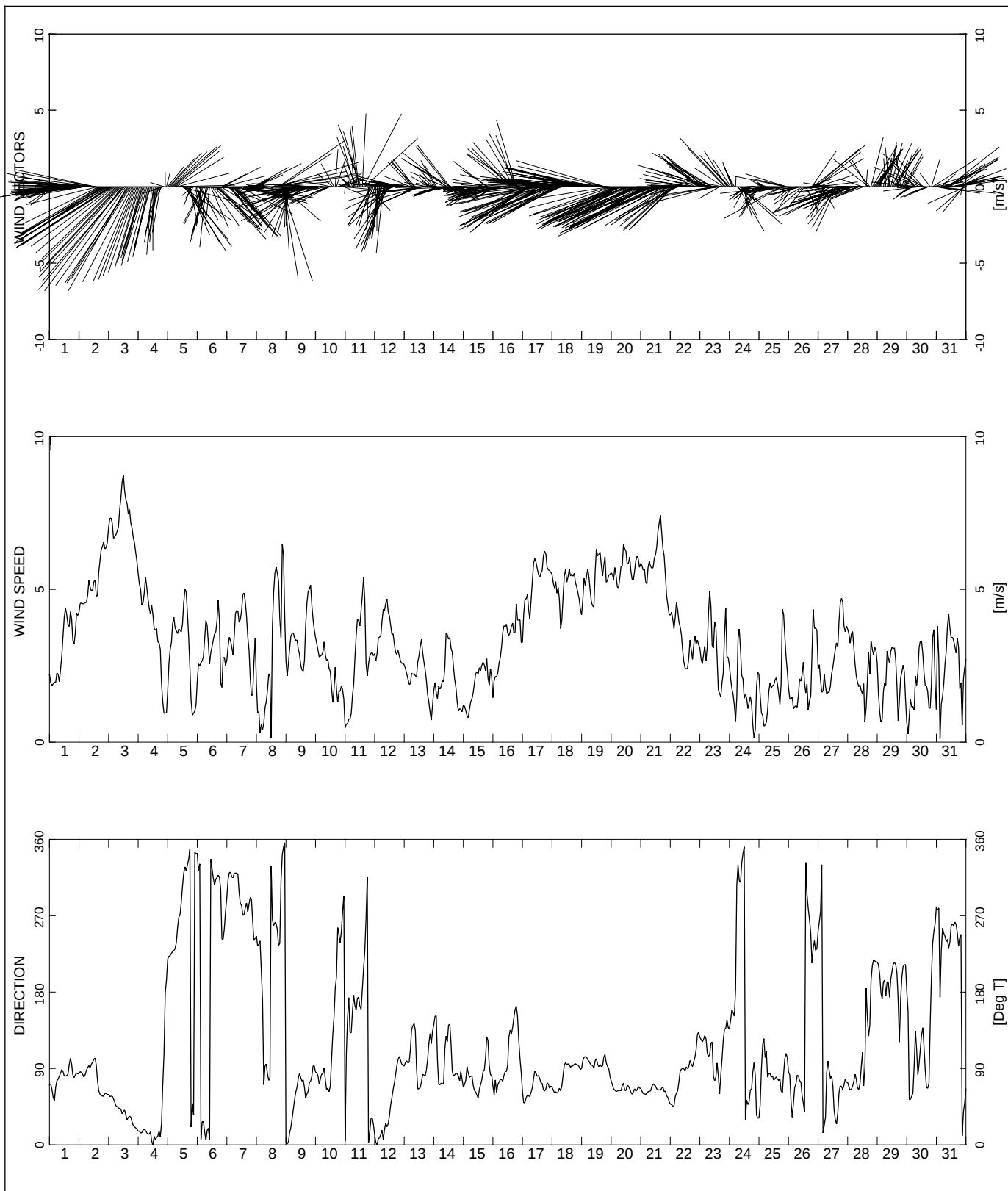
STATUS
ISSUED FOR USE

YELLOWKNIFE GOLD PROJECT 2010 HYDROMETEOROLOGICAL REPORT

Tyhee Station Wind Data April 2010

PROJECT NO. Y22101170	DWN RED	CHK JAS	APVD JAS	REV 0
OFFICE EBA-VANC	DATE January 2011			

Figure B-68



NOTES

CLIENT



YELLOWKNIFE GOLD PROJECT 2010 HYDROMETEOROLOGICAL REPORT

Tyhee Station Wind Data May 2010

STATUS
ISSUED FOR USE



PROJECT NO.
Y22101170

OFFICE
EBA-VANC

DWN
RED

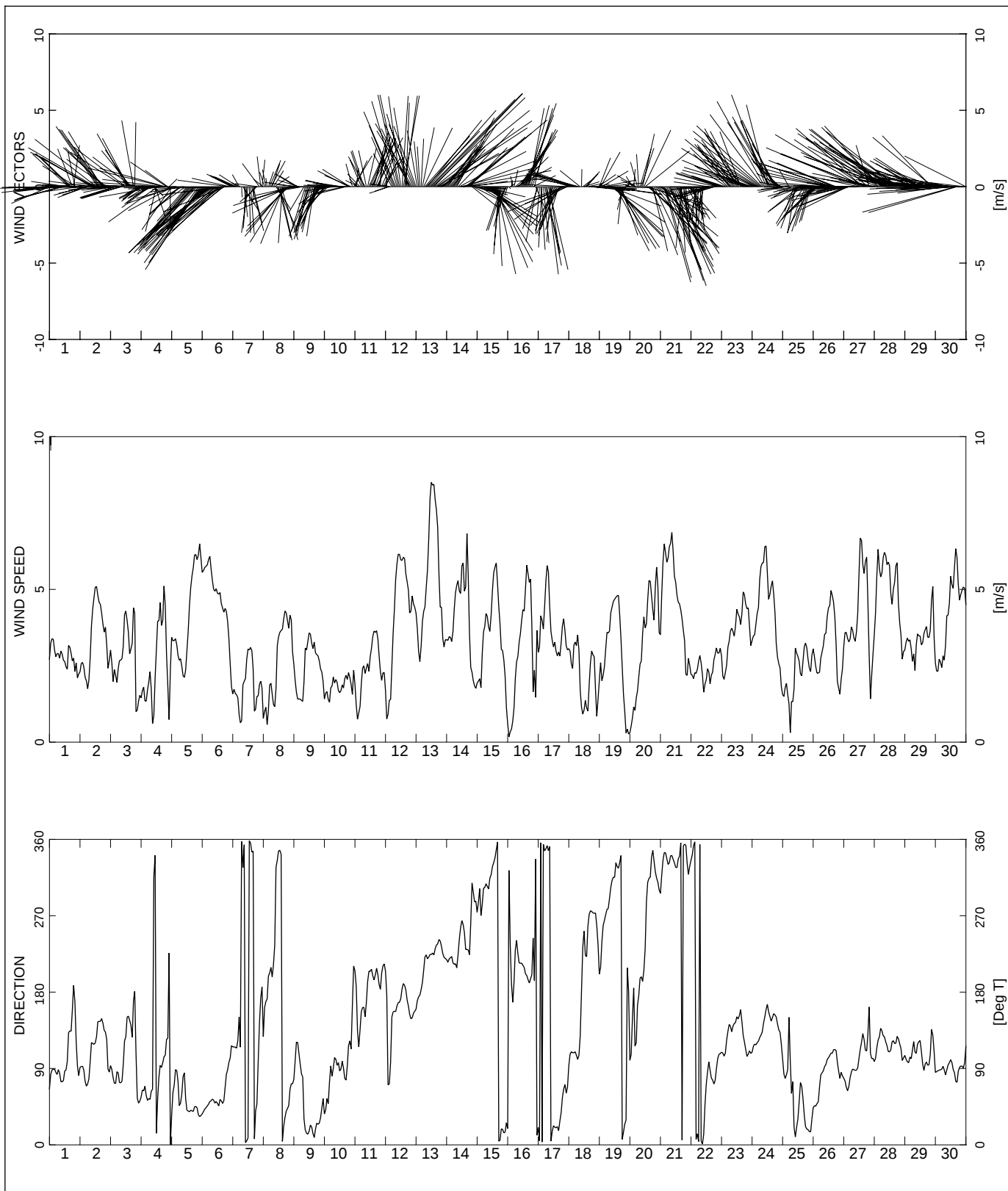
DATE
January 2011

CHK
JAS

APVD
JAS

REV
0

Figure B-69



NOTES

CLIENT

Tyhee NWT Corp



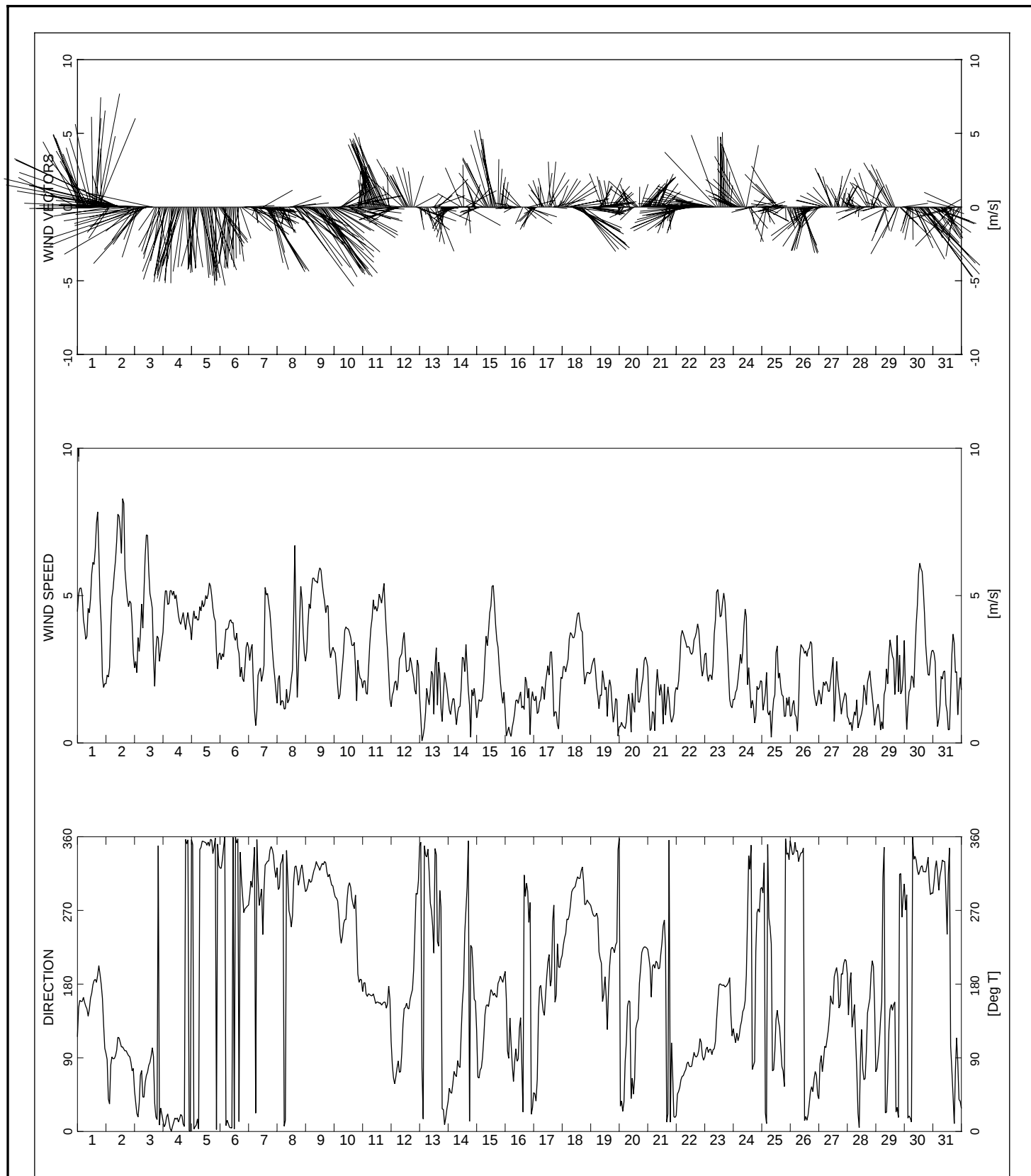
STATUS
ISSUED FOR USE

YELLOWKNIFE GOLD PROJECT 2010 HYDROMETEOROLOGICAL REPORT

Tyhee Station Wind Data June 2010

PROJECT NO.	DWN	CHK	APVD	REV
Y22101170	RED	JAS	JAS	0
OFFICE	DATE			
EBA-VANC	January 2011			

Figure B-70



NOTES

CLIENT

Tyhee NWT Corp



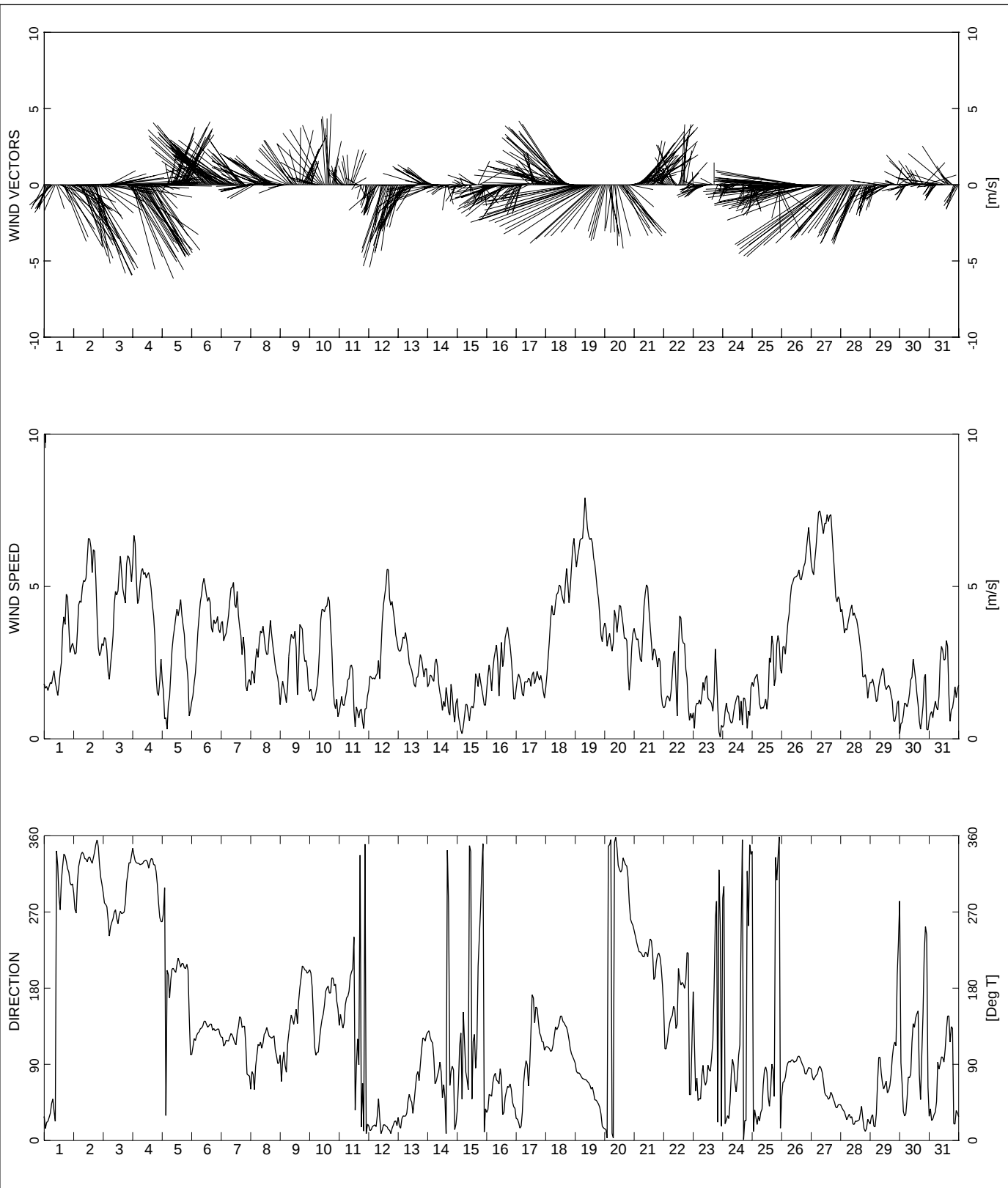
STATUS
ISSUED FOR USE

YELLOWKNIFE GOLD PROJECT 2010 HYDROMETEOROLOGICAL REPORT

Tyhee Station Wind Data July 2010

PROJECT NO.	DWN	CHK	APVD	REV
Y22101170	RED	JAS	JAS	0
OFFICE	DATE			
EBA-VANC	January 2011			

Figure B-71



NOTES

CLIENT



YELLOWKNIFE GOLD PROJECT 2010 HYDROMETEOROLOGICAL REPORT

Tyhee Station Wind Data August 2010

STATUS
ISSUED FOR USE



PROJECT NO.
Y22101170

OFFICE
EBA-VANC

DWN
RED

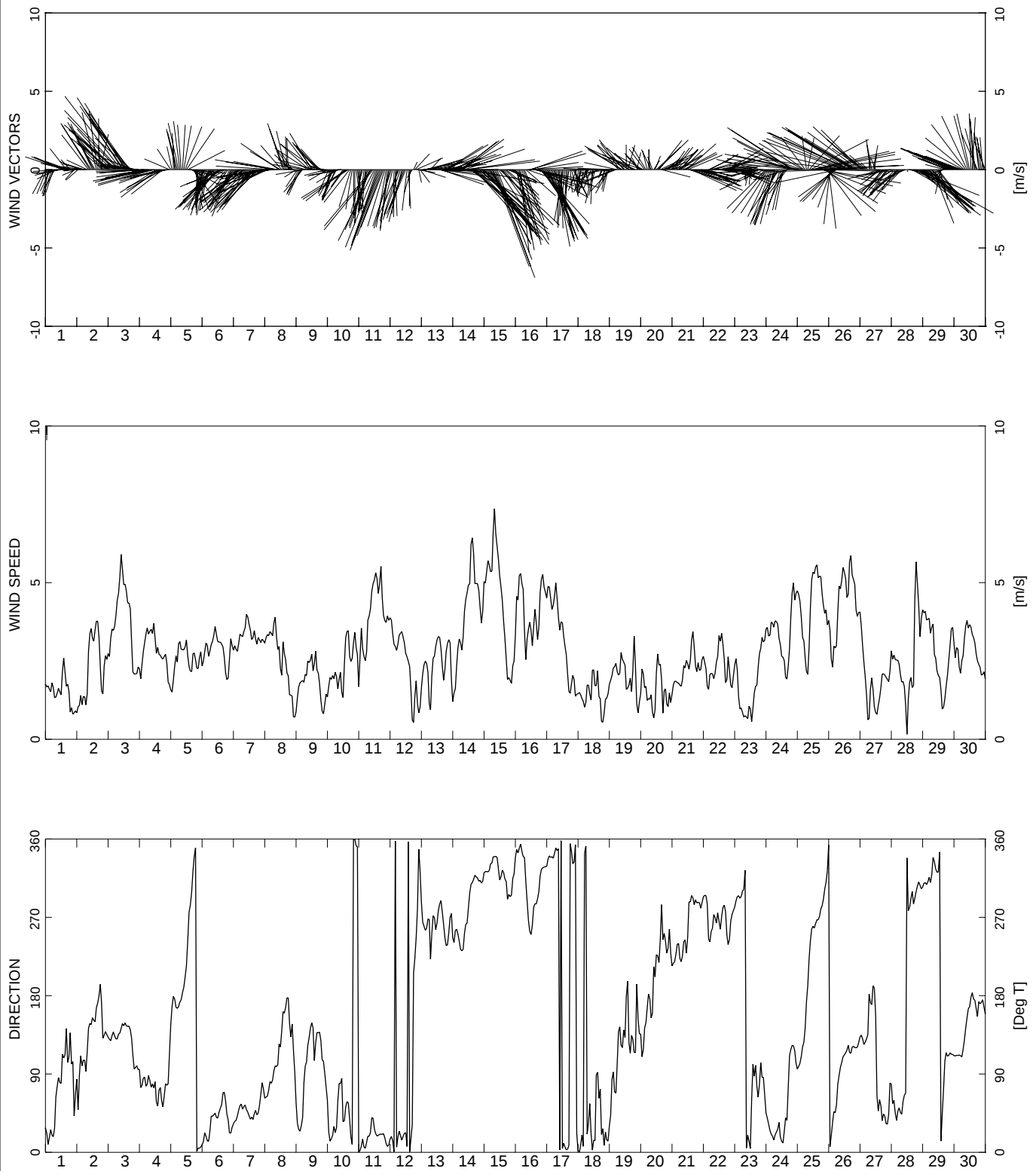
DATE
January 2011

CHK
JAS

APVD
JAS

REV
0

Figure B-72



NOTES

CLIENT

Tyhee NWT Corp



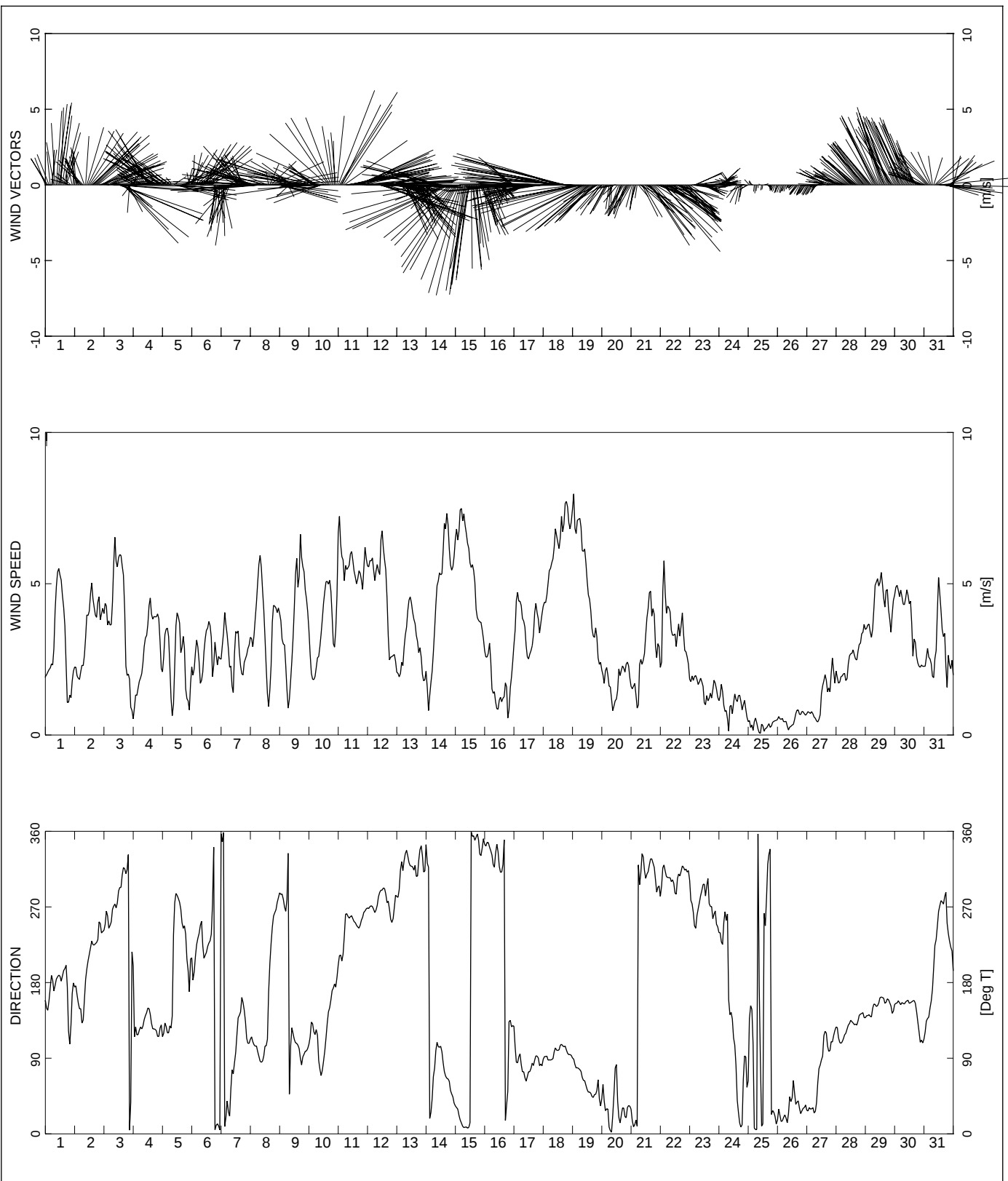
STATUS
ISSUED FOR USE

YELLOWKNIFE GOLD PROJECT 2010 HYDROMETEOROLOGICAL REPORT

Tyhee Station Wind Data September 2010

PROJECT NO. Y22101170	DWN RED	CHK JAS	APVD JAS	REV 0
OFFICE EBA-VANC	DATE January 2011			

Figure B-73



NOTES

CLIENT



YELLOWKNIFE GOLD PROJECT 2010 HYDROMETEOROLOGICAL REPORT

Tyhee Station Wind Data October 2010

STATUS
ISSUED FOR USE



PROJECT NO.
Y22101170

OFFICE
EBA-VANC

DWN
RED

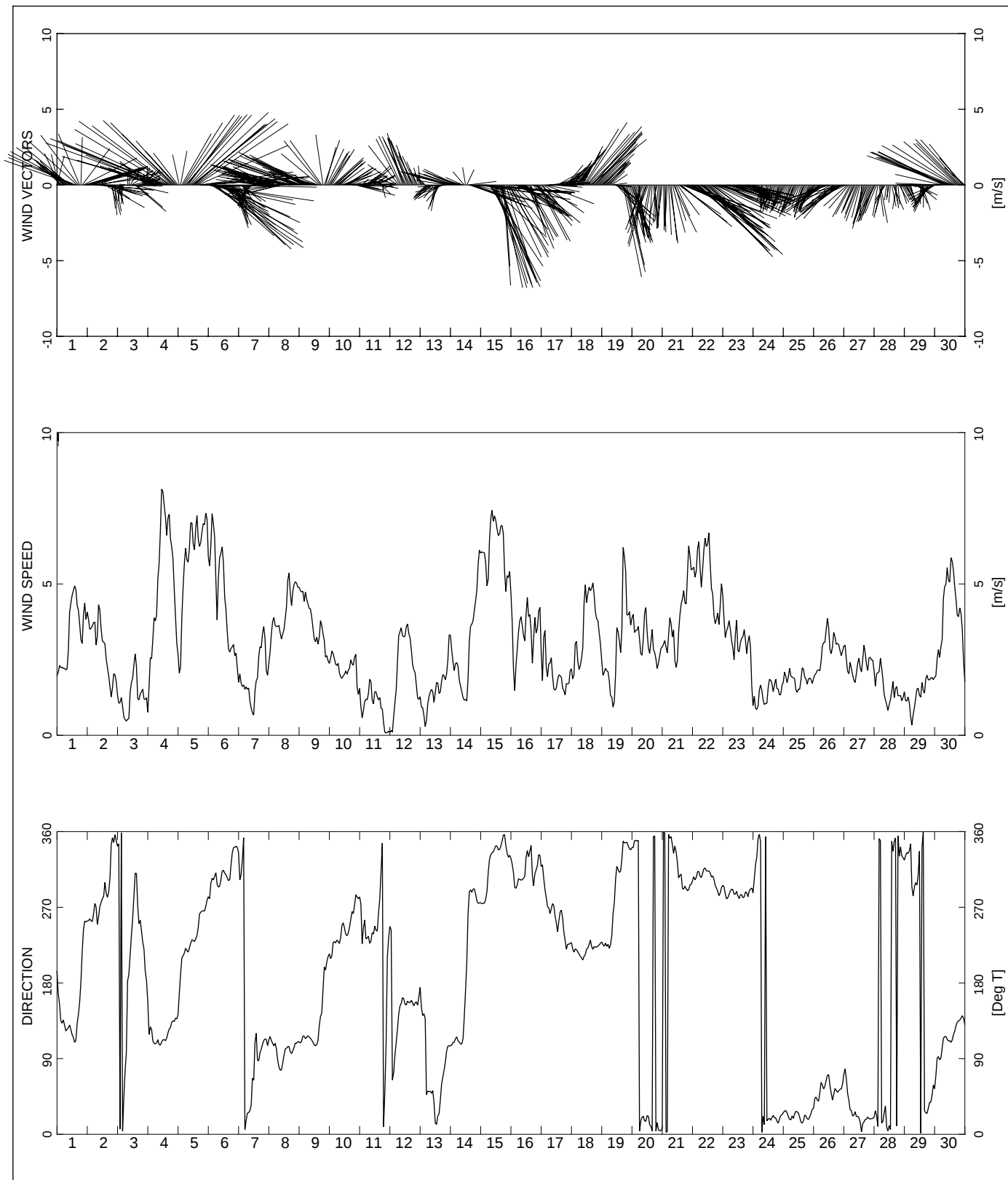
DATE
January 2011

CHK
JAS

APVD
JAS

REV
0

Figure B-74



NOTES

CLIENT

Tyhee NWT Corp



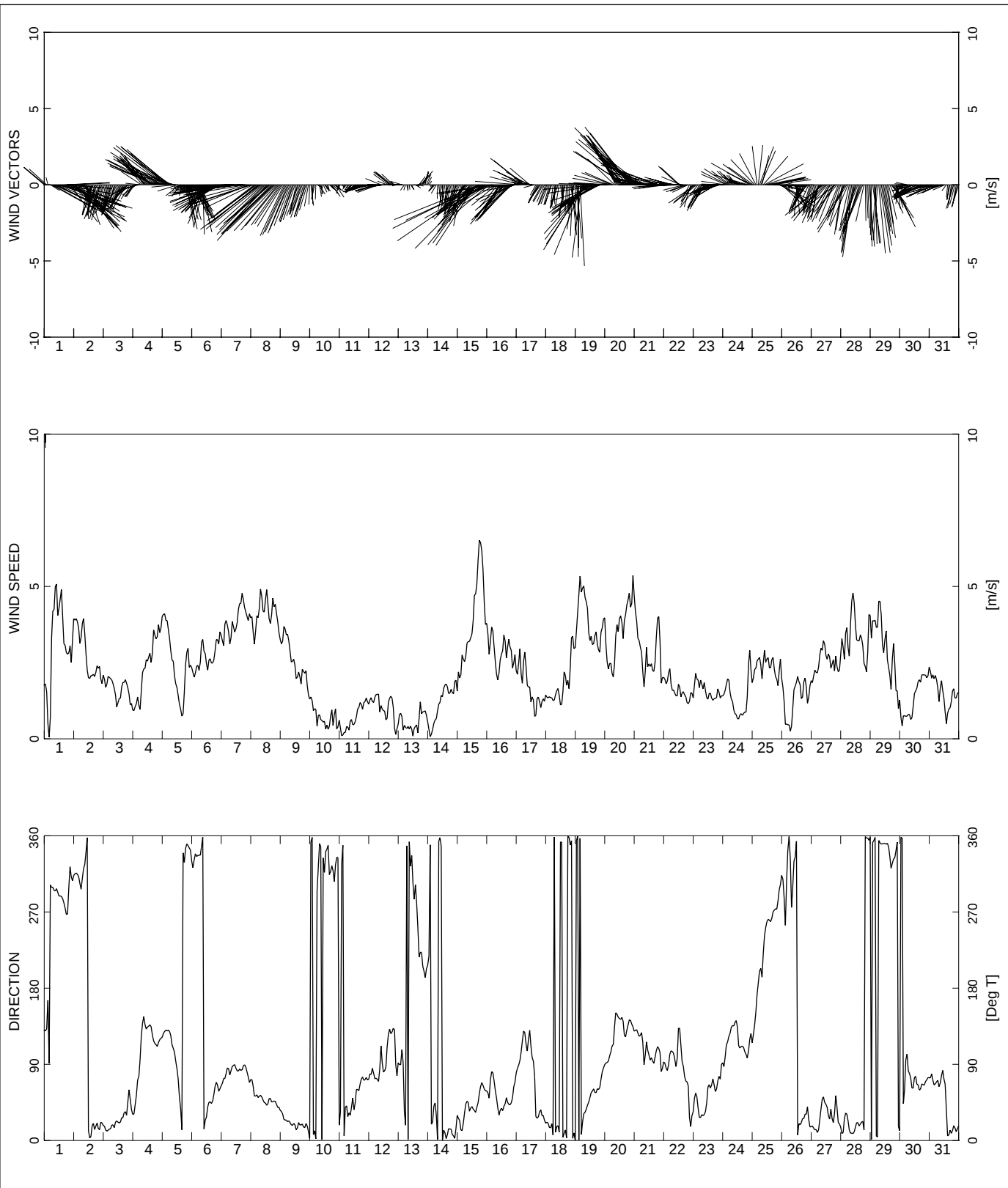
STATUS
ISSUED FOR USE

YELLOWKNIFE GOLD PROJECT 2010 HYDROMETEOROLOGICAL REPORT

Tyhee Station Wind Data November 2010

PROJECT NO. Y22101170	DWN RED	CHK JAS	APVD JAS	REV 0
OFFICE EBA-VANC	DATE January 2011			

Figure B-75



NOTES

CLIENT

Tyhee NWT Corp



STATUS
ISSUED FOR USE

YELLOWKNIFE GOLD PROJECT 2010 HYDROMETEOROLOGICAL REPORT

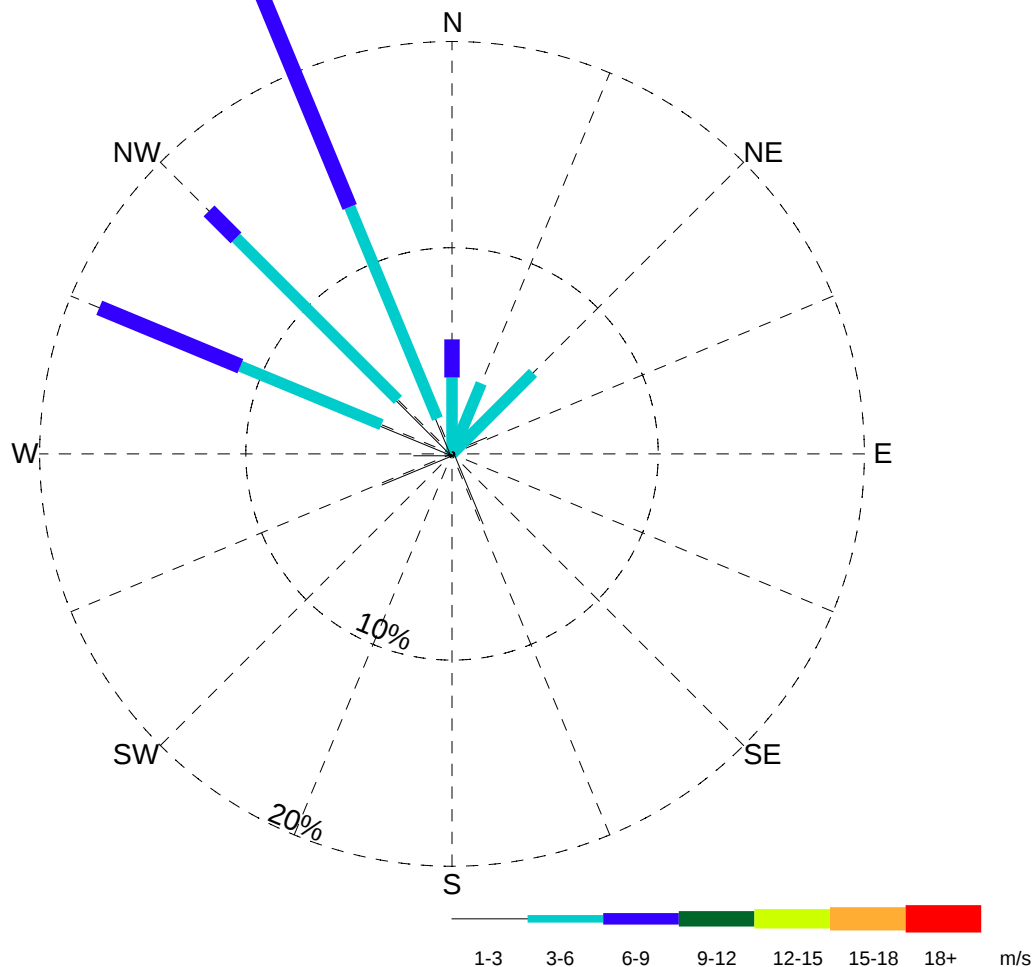
Tyhee Station Wind Data December 2010

PROJECT NO. Y22101170	DWN RED	CHK JAS	APVD JAS	REV 0
OFFICE EBA-VANC	DATE January 2011			

Figure B-76

APPENDIX C

APPENDIX C MONTHLY WIND ROSES



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	1.85	-	-	-	-	-	-	1.85
NE	-	-	5.56	-	-	-	-	-	5.56
NNE	-	-	3.70	-	-	-	-	-	3.70
N	-	-	3.70	1.85	-	-	-	-	5.56
NNW	-	1.85	11.11	16.67	-	-	-	-	29.63
NW	-	3.70	11.11	1.85	-	-	-	-	16.67
WNW	-	3.70	7.41	7.41	-	-	-	-	18.52
W	-	1.85	-	-	-	-	-	-	1.85
WSW	-	3.70	-	-	-	-	-	-	3.70
SW	-	-	-	-	-	-	-	-	-
SSW	-	-	-	-	-	-	-	-	-
S	-	-	-	-	-	-	-	-	-
SSE	-	3.70	-	-	-	-	-	-	3.70
SE	-	-	-	-	-	-	-	-	-
ESE	-	-	-	-	-	-	-	-	-
E	-	-	-	-	-	-	-	-	-
Calm	9.26	-	-	-	-	-	-	-	9.26
Total (%)	9.26	20.37	42.59	27.78	-	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 3 days

Start Date: Sep. 28, 2004

End Date: Sep. 30, 2004

NOTES

CLIENT



EBA Engineering Consultants Ltd. 

**YELLOWKNIFE GOLD PROJECT
2008 HYDROMETEOROLOGICAL REPORT**

**Tyhee Station
Wind Rose
September 2004**

PROJECT NO.
Y22101057

DWN
TM

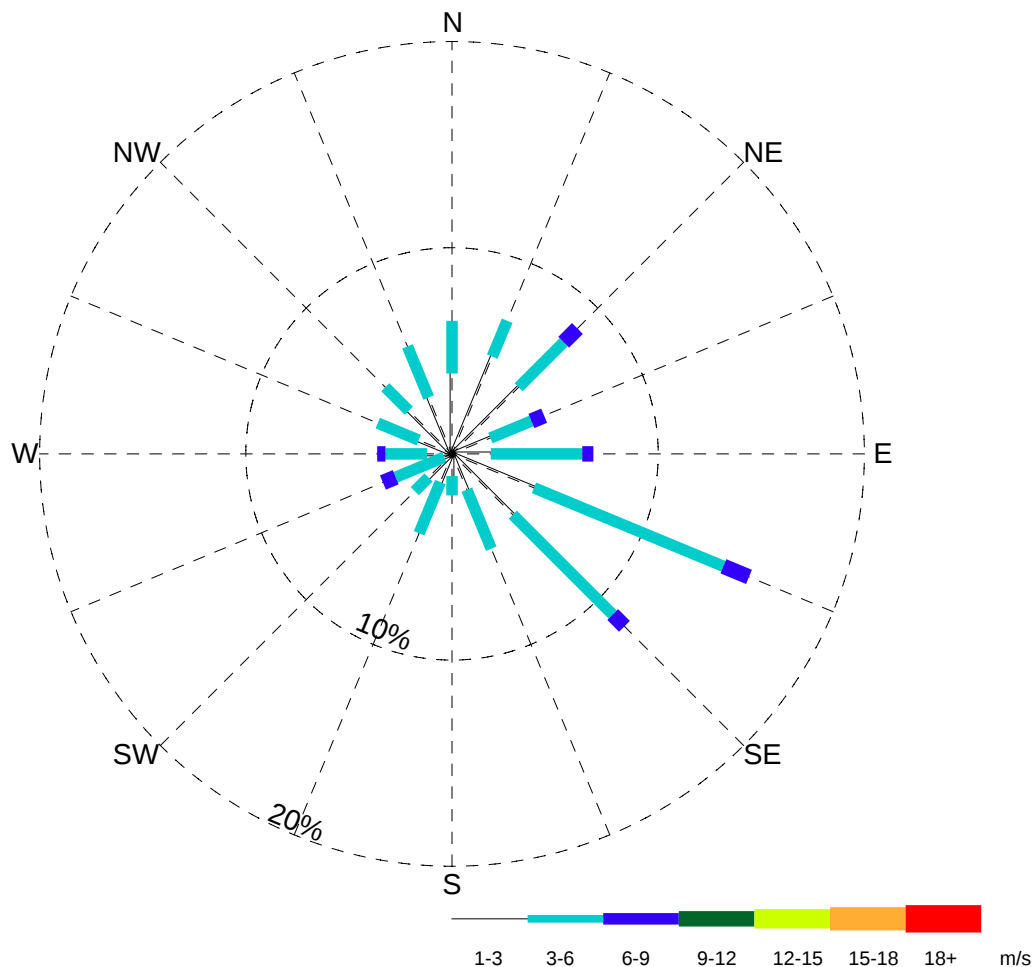
CHK
JAS

REV
0

OFFICE
EBA-VANC

DATE
May 2009

Figure C-01



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	2.02	2.15	0.67	-	-	-	-	4.84
NE	-	4.57	3.09	0.94	-	-	-	-	8.60
NNE	-	5.11	1.88	-	-	-	-	-	6.99
N	-	3.90	2.55	-	-	-	-	-	6.45
NNW	-	2.96	2.69	-	-	-	-	-	5.64
NW	-	2.96	1.61	-	-	-	-	-	4.57
WNW	-	1.75	2.15	-	-	-	-	-	3.90
W	-	1.21	2.02	0.40	-	-	-	-	3.63
WSW	-	0.40	2.55	0.67	-	-	-	-	3.63
SW	-	1.61	0.94	-	-	-	-	-	2.55
SSW	-	1.48	2.69	-	-	-	-	-	4.17
S	-	1.08	0.94	-	-	-	-	-	2.02
SSE	-	1.88	3.09	-	-	-	-	-	4.97
SE	-	4.17	6.86	0.81	-	-	-	-	11.83
ESE	-	4.30	9.95	1.34	-	-	-	-	15.59
E	-	1.88	4.43	0.54	-	-	-	-	6.86
Calm	3.76	-	-	-	-	-	-	-	3.76
Total (%)	3.76	41.26	49.60	5.38	-	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 31 days

Start Date: Oct. 01, 2004

End Date: Oct. 31, 2004

NOTES

CLIENT



EBA Engineering
Consultants Ltd. 

YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

Tyhee Station
Wind Rose
October 2004

PROJECT NO.
Y22101057

DWN
TM

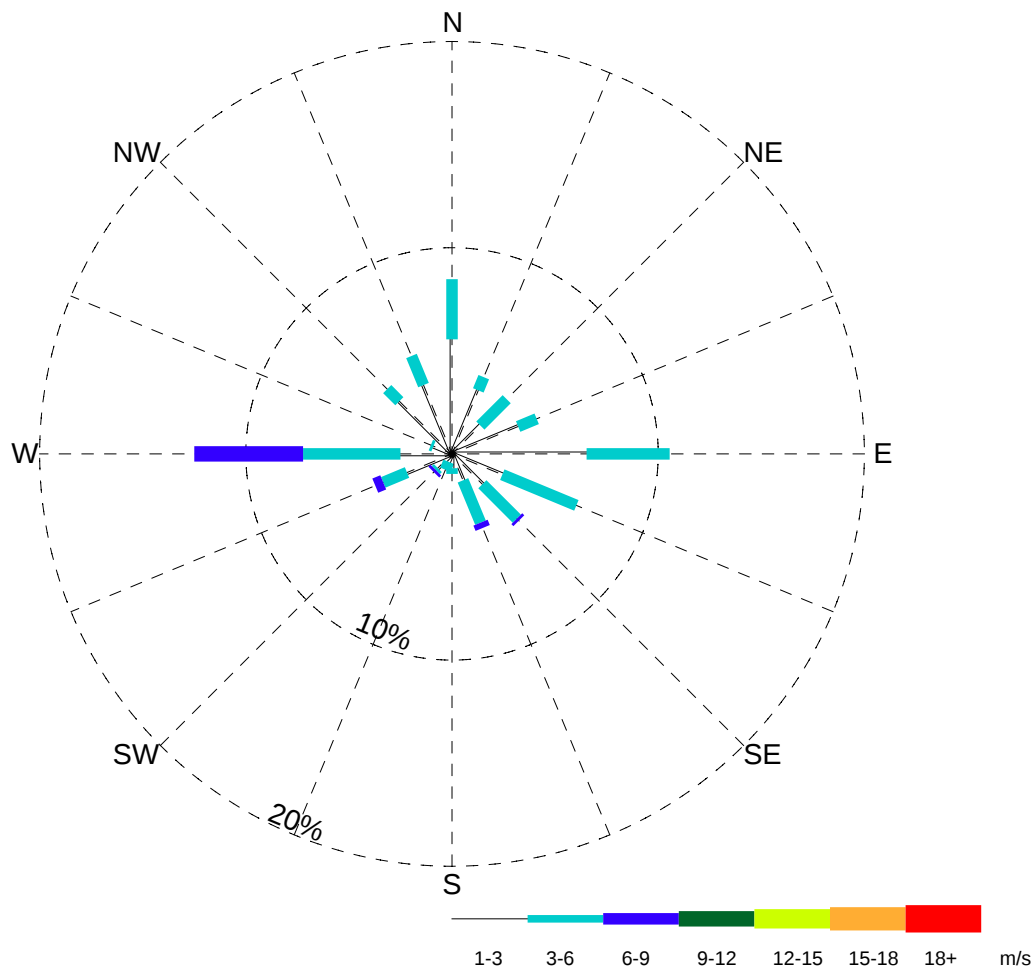
CHK
JAS

REV
0

OFFICE
EBA-VANC

DATE
May 2009

Figure C-02



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	3.47	0.97	-	-	-	-	-	4.44
NE	-	1.94	1.81	-	-	-	-	-	3.75
NNE	-	3.33	0.69	-	-	-	-	-	4.03
N	-	5.56	2.92	-	-	-	-	-	8.47
NNW	-	3.61	1.53	-	-	-	-	-	5.14
NW	-	3.61	0.83	-	-	-	-	-	4.44
WNW	-	0.97	0.14	-	-	-	-	-	1.11
W	-	2.50	4.72	5.28	-	-	-	-	12.50
WSW	-	2.36	1.25	0.42	-	-	-	-	4.03
SW	-	0.97	0.14	0.14	-	-	-	-	1.25
SSW	-	0.42	0.42	-	-	-	-	-	0.83
S	-	0.69	0.28	-	-	-	-	-	0.97
SSE	-	1.39	2.22	0.28	-	-	-	-	3.89
SE	-	2.08	2.36	0.14	-	-	-	-	4.58
ESE	-	2.64	3.89	-	-	-	-	-	6.53
E	-	6.53	4.03	-	-	-	-	-	10.56
Calm	23.47	-	-	-	-	-	-	-	23.47
Total (%)	23.47	42.08	28.19	6.25	-	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 30 days

Start Date: Nov. 01, 2004

End Date: Nov. 30, 2004

NOTES

CLIENT



EBA Engineering Consultants Ltd. 

**YELLOWKNIFE GOLD PROJECT
2008 HYDROMETEOROLOGICAL REPORT**

**Tyhee Station
Wind Rose
November 2004**

PROJECT NO.
Y22101057

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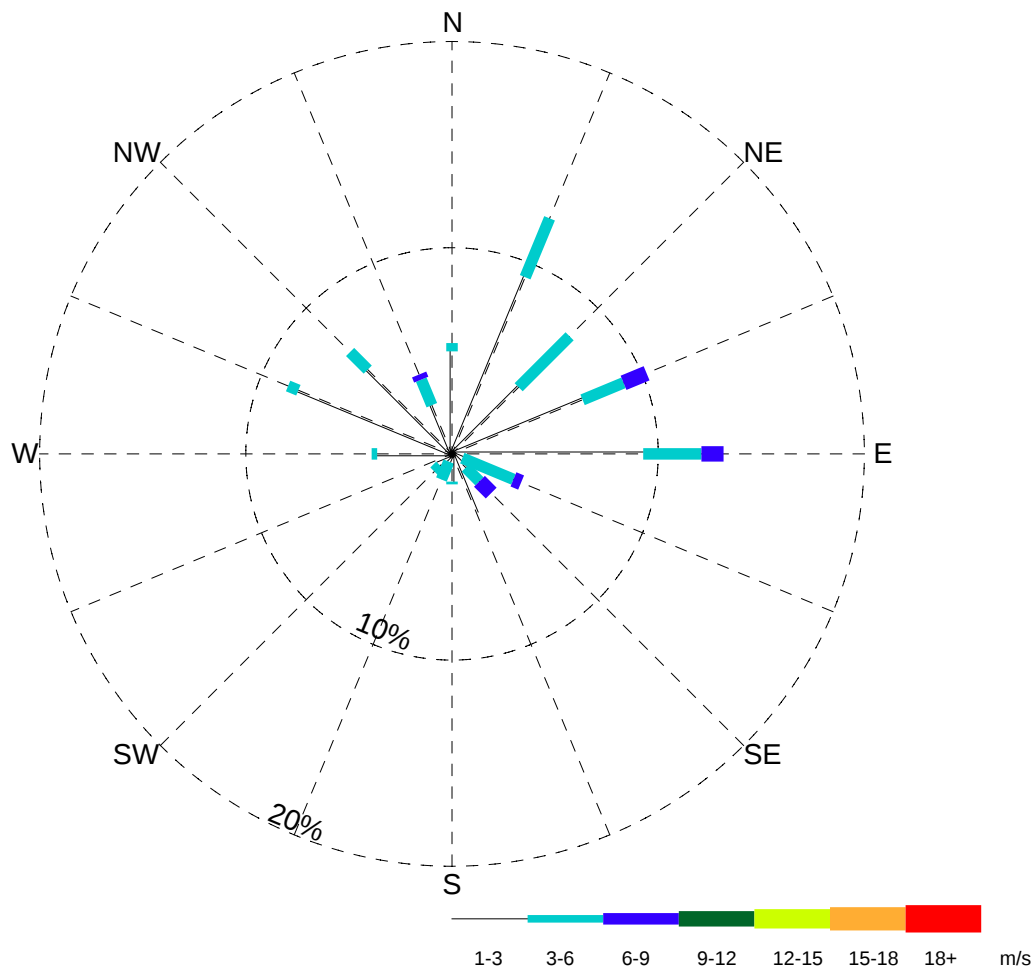
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Figure C-03



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	6.86	2.15	1.21	-	-	-	-	10.22
NE	-	4.57	3.49	-	-	-	-	-	8.06
NNE	-	9.27	3.09	-	-	-	-	-	12.37
N	-	4.97	0.40	-	-	-	-	-	5.38
NNW	-	2.55	1.34	0.27	-	-	-	-	4.17
NW	-	5.78	1.21	-	-	-	-	-	6.99
WNW	-	8.06	0.54	-	-	-	-	-	8.60
W	-	3.63	0.27	-	-	-	-	-	3.90
WSW	-	0.81	-	-	-	-	-	-	0.81
SW	-	0.81	0.40	-	-	-	-	-	1.21
SSW	-	0.40	0.94	-	-	-	-	-	1.34
S	-	1.34	0.13	-	-	-	-	-	1.48
SSE	-	3.09	-	-	-	-	-	-	3.09
SE	-	0.94	0.94	0.81	-	-	-	-	2.69
ESE	-	0.54	2.69	0.40	-	-	-	-	3.63
E	-	9.27	2.82	1.08	-	-	-	-	13.17
Calm	12.90	-	-	-	-	-	-	-	12.90
Total (%)	12.90	62.90	20.43	3.76	-	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 31 days

Start Date: Dec. 01, 2004

End Date: Dec. 31, 2004

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EBA Engineering Consultants Ltd.



YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Rose
December 2004**

PROJECT NO.
Y22101057

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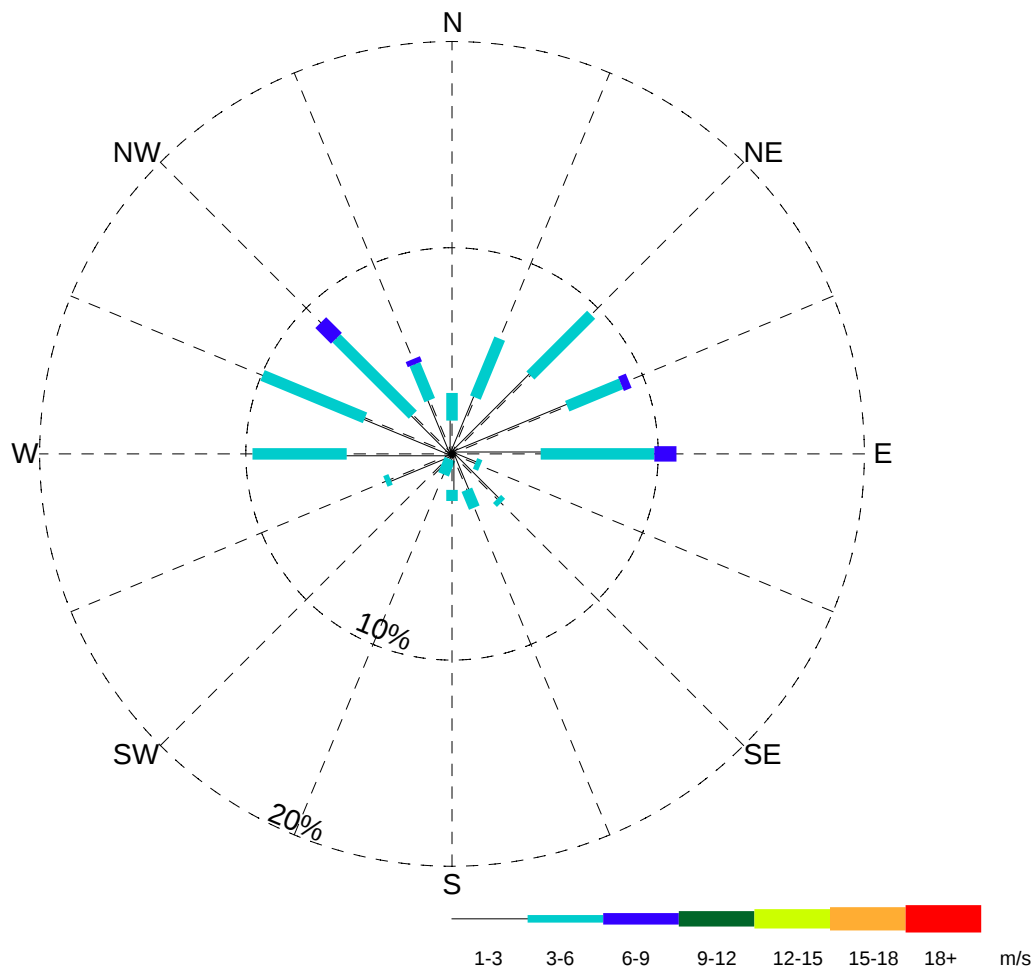
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Figure C-04



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	6.05	2.82	0.40	-	-	-	-	9.27
NE	-	5.38	4.17	-	-	-	-	-	9.54
NNE	-	2.96	3.09	-	-	-	-	-	6.05
N	-	1.61	1.34	-	-	-	-	-	2.96
NNW	-	2.82	1.88	0.27	-	-	-	-	4.97
NW	-	2.69	5.24	1.08	-	-	-	-	9.01
WNW	-	4.57	5.38	-	-	-	-	-	9.95
W	-	5.11	4.57	-	-	-	-	-	9.68
WSW	-	3.23	0.27	-	-	-	-	-	3.49
SW	-	1.34	-	-	-	-	-	-	1.34
SSW	-	0.27	0.81	-	-	-	-	-	1.08
S	-	1.75	0.54	-	-	-	-	-	2.29
SSE	-	1.88	0.94	-	-	-	-	-	2.82
SE	-	3.09	0.27	-	-	-	-	-	3.36
ESE	-	1.21	0.27	-	-	-	-	-	1.48
E	-	4.30	5.51	1.08	-	-	-	-	10.89
Calm	11.83	-	-	-	-	-	-	-	11.83
Total (%)	11.83	48.25	37.10	2.82	-	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 31 days

Start Date: Jan. 01, 2005

End Date: Jan. 31, 2005

NOTES

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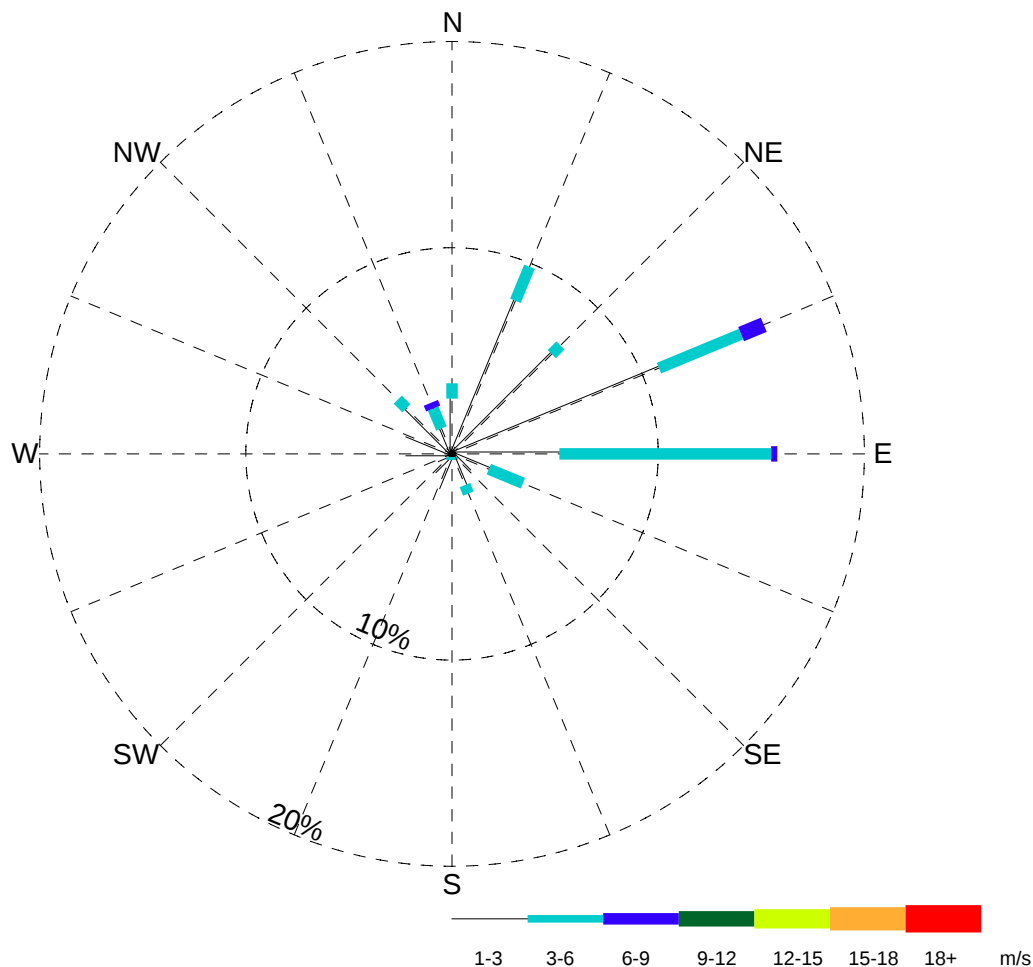
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2008 HYDROMETEOROLOGICAL REPORT**

**Tyhee Station
Wind Rose
January 2005**

PROJECT NO. Y22101057	DWN TM	CHK JAS	REV 0
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Figure C-05



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	10.86	4.32	1.19	-	-	-	-	16.37
NE	-	6.84	0.60	-	-	-	-	-	7.44
NNE	-	8.04	1.79	-	-	-	-	-	9.82
N	-	2.68	0.74	-	-	-	-	-	3.42
NNW	-	1.34	1.04	0.30	-	-	-	-	2.68
NW	-	3.12	0.60	-	-	-	-	-	3.72
WNW	-	2.38	-	-	-	-	-	-	2.38
W	-	2.23	-	-	-	-	-	-	2.23
WSW	-	0.74	-	-	-	-	-	-	0.74
SW	-	1.19	-	-	-	-	-	-	1.19
SSW	-	1.79	-	-	-	-	-	-	1.79
S	-	0.15	0.15	-	-	-	-	-	0.30
SSE	-	1.64	0.45	-	-	-	-	-	2.08
SE	-	1.19	-	-	-	-	-	-	1.19
ESE	-	1.93	1.79	-	-	-	-	-	3.72
E	-	5.21	10.27	0.30	-	-	-	-	15.77
Calm	25.15	-	-	-	-	-	-	-	25.15
Total (%)	25.15	51.34	21.73	1.79	-	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 28 days

Start Date: Feb. 01, 2005

End Date: Feb. 28, 2005

NOTES

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Tyhee Station
Wind Rose
February 2005

PROJECT NO.
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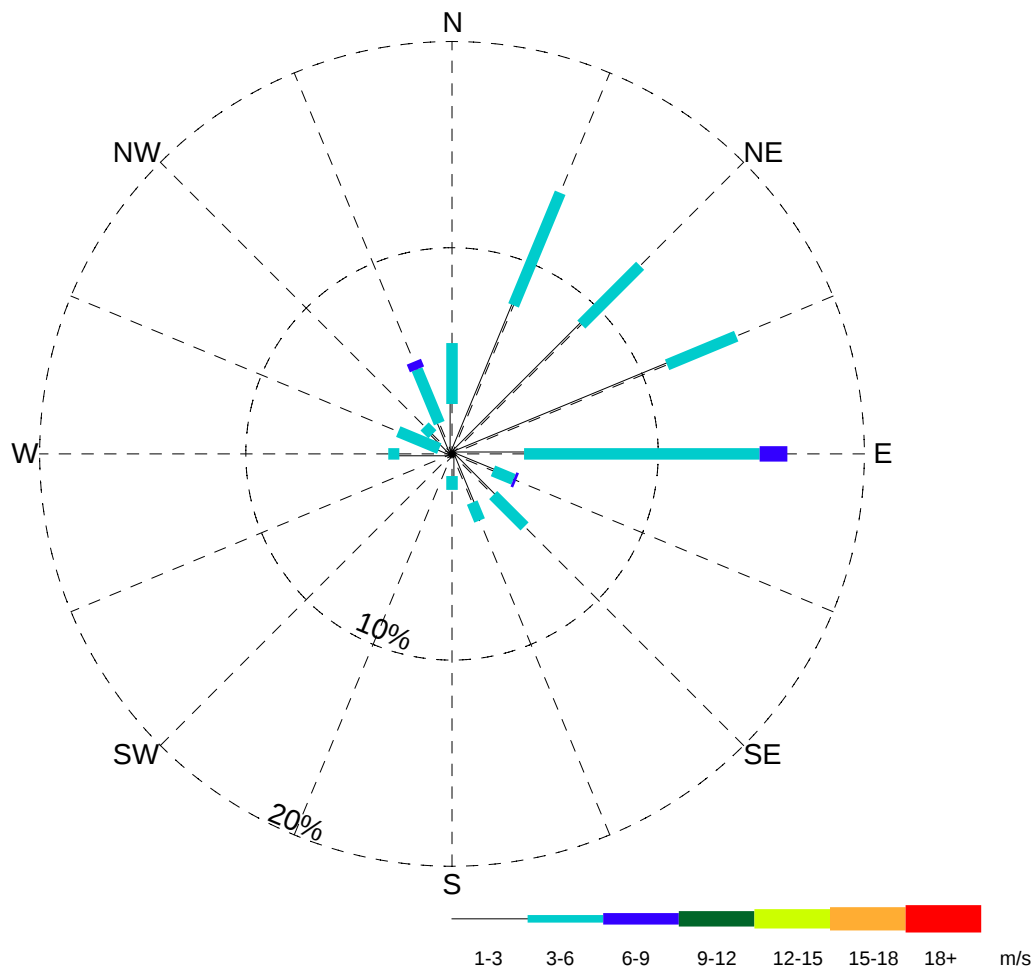
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Figure C-06



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	11.29	3.63	-	-	-	-	-	14.92
NE	-	8.87	4.03	-	-	-	-	-	12.90
NNE	-	7.80	5.91	-	-	-	-	-	13.71
N	-	2.42	2.96	-	-	-	-	-	5.38
NNW	-	1.61	2.82	0.40	-	-	-	-	4.84
NW	-	1.34	0.54	-	-	-	-	-	1.88
WNW	-	0.67	2.15	-	-	-	-	-	2.82
W	-	2.55	0.54	-	-	-	-	-	3.09
WSW	-	0.27	-	-	-	-	-	-	0.27
SW	-	0.40	-	-	-	-	-	-	0.40
SSW	-	0.13	-	-	-	-	-	-	0.13
S	-	1.08	0.67	-	-	-	-	-	1.75
SSE	-	2.55	0.94	-	-	-	-	-	3.49
SE	-	2.82	2.15	-	-	-	-	-	4.97
ESE	-	2.15	1.08	0.13	-	-	-	-	3.36
E	-	3.49	11.43	1.34	-	-	-	-	16.26
Calm	9.81	-	-	-	-	-	-	-	9.81
Total (%)	9.81	49.46	38.84	1.88	-	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 31 days

Start Date: Mar. 01, 2005

End Date: Mar. 31, 2005

NOTES

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YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Rose
March 2005**

PROJECT NO.
Y22101057

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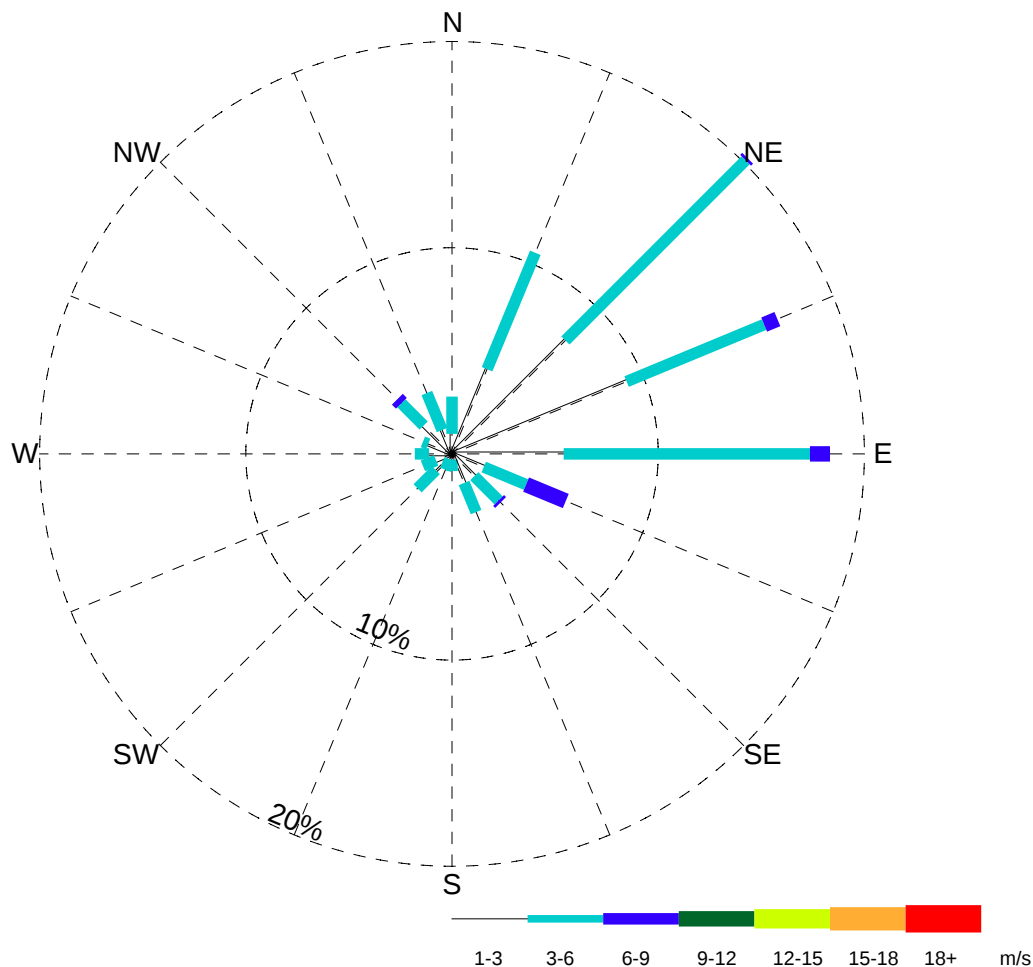
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Figure C-07



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	9.17	7.22	0.69	-	-	-	-	17.08
NE	-	7.78	12.36	0.14	-	-	-	-	20.28
NNE	-	4.44	6.11	-	-	-	-	-	10.56
N	-	0.97	1.81	-	-	-	-	-	2.78
NNW	-	1.25	1.94	-	-	-	-	-	3.19
NW	-	1.94	1.53	0.28	-	-	-	-	3.75
WNW	-	1.25	0.28	-	-	-	-	-	1.53
W	-	1.11	0.69	-	-	-	-	-	1.81
WSW	-	0.83	0.69	-	-	-	-	-	1.53
SW	-	1.11	1.25	-	-	-	-	-	2.36
SSW	-	0.28	0.56	-	-	-	-	-	0.83
S	-	0.28	0.56	-	-	-	-	-	0.83
SSE	-	1.53	1.53	-	-	-	-	-	3.06
SE	-	1.53	1.67	0.14	-	-	-	-	3.33
ESE	-	1.67	2.22	2.08	-	-	-	-	5.97
E	-	5.42	11.94	0.97	-	-	-	-	18.33
Calm	2.78	-	-	-	-	-	-	-	2.78
Total (%)	2.78	40.56	52.36	4.31	-	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 30 days

Start Date: Apr. 01, 2005

End Date: Apr. 30, 2005

NOTES

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**YELLOWKNIFE GOLD PROJECT
2008 HYDROMETEOROLOGICAL REPORT**

**Tyhee Station
Wind Rose
April 2005**

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Y22101057

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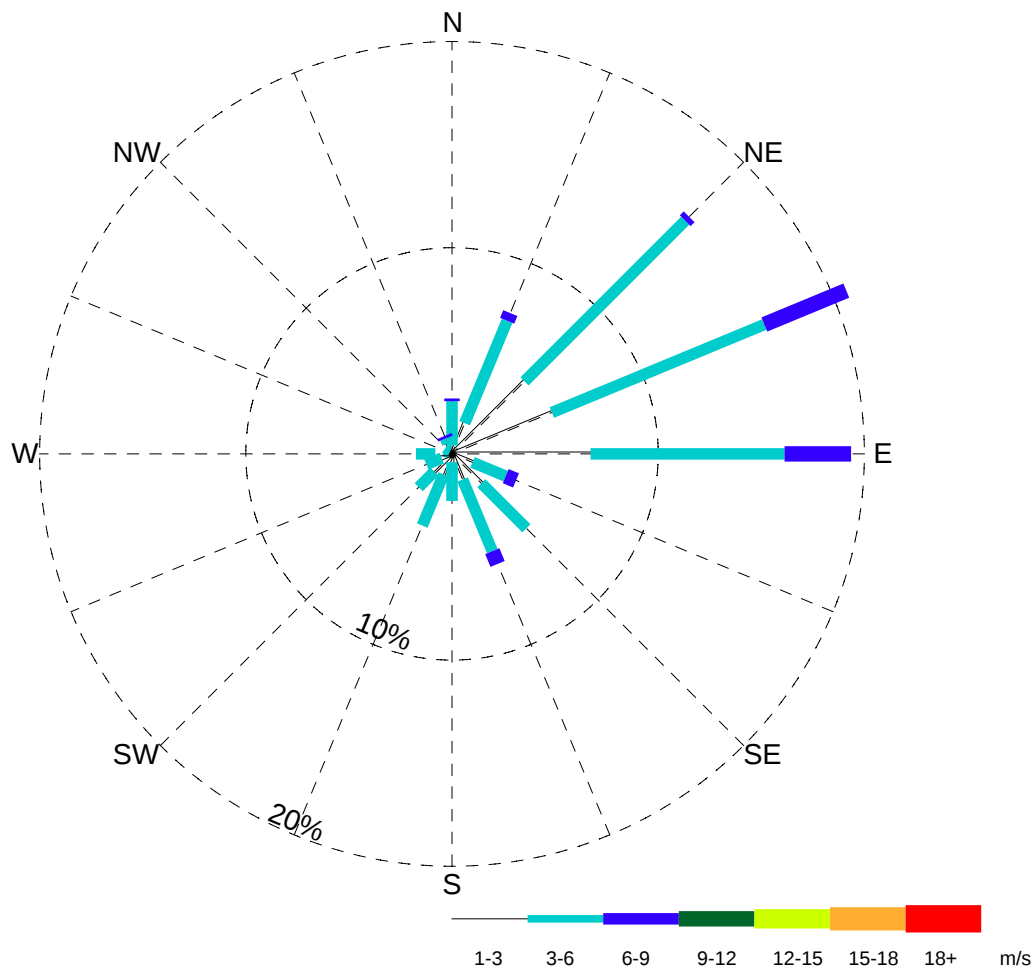
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Figure C-08



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	5.24	11.16	4.30	-	-	-	-	20.70
NE	-	4.97	11.02	0.27	-	-	-	-	16.26
NNE	-	1.61	5.38	0.40	-	-	-	-	7.39
N	-	0.40	2.15	0.13	-	-	-	-	2.69
NNW	-	0.54	0.27	0.13	-	-	-	-	0.94
NW	-	0.27	0.13	-	-	-	-	-	0.40
WNW	-	0.13	0.27	-	-	-	-	-	0.40
W	-	0.81	0.94	-	-	-	-	-	1.75
WSW	-	0.54	0.81	-	-	-	-	-	1.34
SW	-	1.21	1.08	-	-	-	-	-	2.29
SSW	-	1.08	2.69	-	-	-	-	-	3.76
S	-	0.40	1.88	-	-	-	-	-	2.29
SSE	-	1.34	3.76	0.67	-	-	-	-	5.78
SE	-	2.02	3.09	-	-	-	-	-	5.11
ESE	-	1.08	1.75	0.54	-	-	-	-	3.36
E	-	6.72	9.41	3.23	-	-	-	-	19.35
Calm	6.18	-	-	-	-	-	-	-	6.18
Total (%)	6.18	28.36	55.78	9.68	-	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 31 days

Start Date: May. 01, 2005

End Date: May. 31, 2005

NOTES

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**YELLOWKNIFE GOLD PROJECT
2008 HYDROMETEOROLOGICAL REPORT**

**Tyhee Station
Wind Rose
May 2005**

PROJECT NO.
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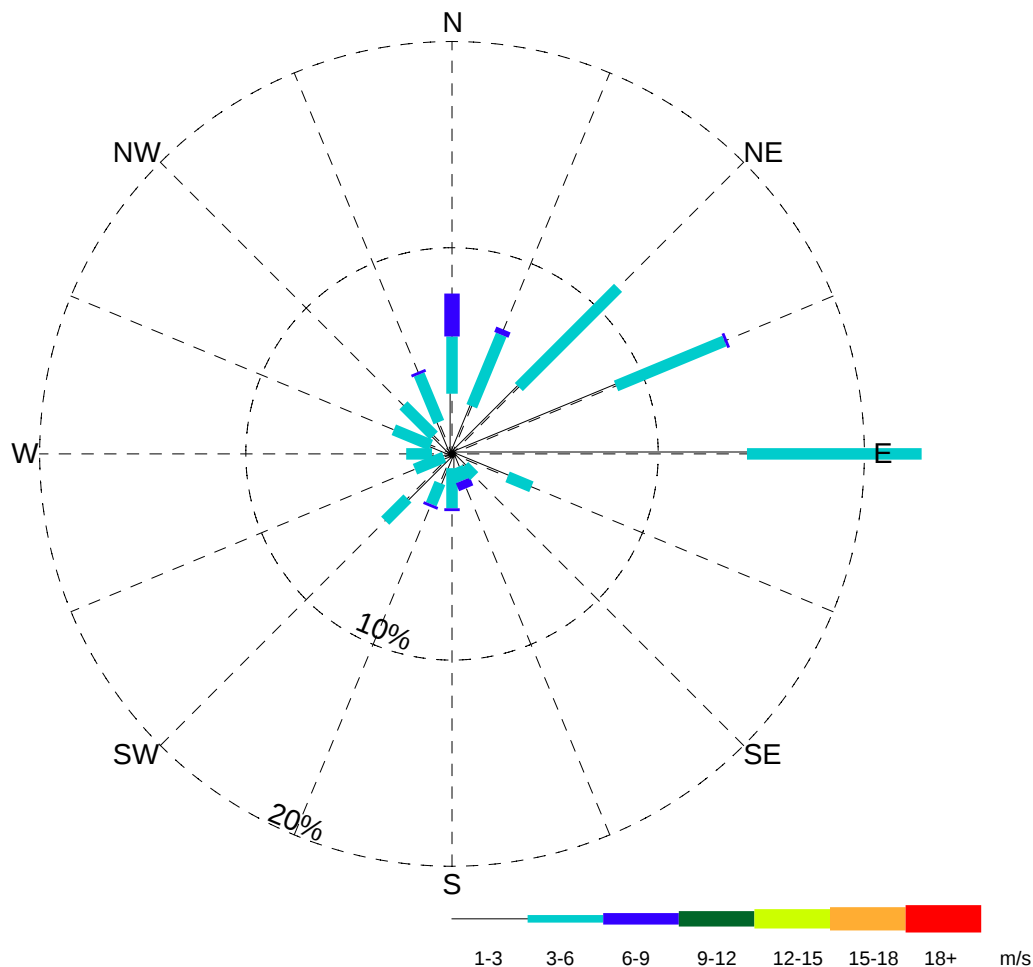
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Figure C-09



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	8.61	5.69	0.14	-	-	-	-	14.44
NE	-	4.58	6.81	-	-	-	-	-	11.39
NNE	-	2.50	3.75	0.28	-	-	-	-	6.53
N	-	2.92	2.78	2.08	-	-	-	-	7.78
NNW	-	1.67	2.50	0.14	-	-	-	-	4.31
NW	-	1.25	2.08	-	-	-	-	-	3.33
WNW	-	1.11	1.94	-	-	-	-	-	3.06
W	-	0.97	1.25	-	-	-	-	-	2.22
WSW	-	0.42	1.53	-	-	-	-	-	1.94
SW	-	3.06	1.53	-	-	-	-	-	4.58
SSW	-	1.53	1.11	0.14	-	-	-	-	2.78
S	-	0.69	1.94	0.14	-	-	-	-	2.78
SSE	-	0.69	0.69	0.42	-	-	-	-	1.81
SE	-	0.83	0.69	-	-	-	-	-	1.53
ESE	-	2.92	1.25	-	-	-	-	-	4.17
E	-	14.31	8.47	-	-	-	-	-	22.78
Calm	4.58	-	-	-	-	-	-	-	4.58
Total (%)	4.58	48.06	44.03	3.33	-	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 30 days

Start Date: June 01, 2005

End Date: June 30, 2005

NOTES

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YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Rose
June 2005**

PROJECT NO.
Y22101057

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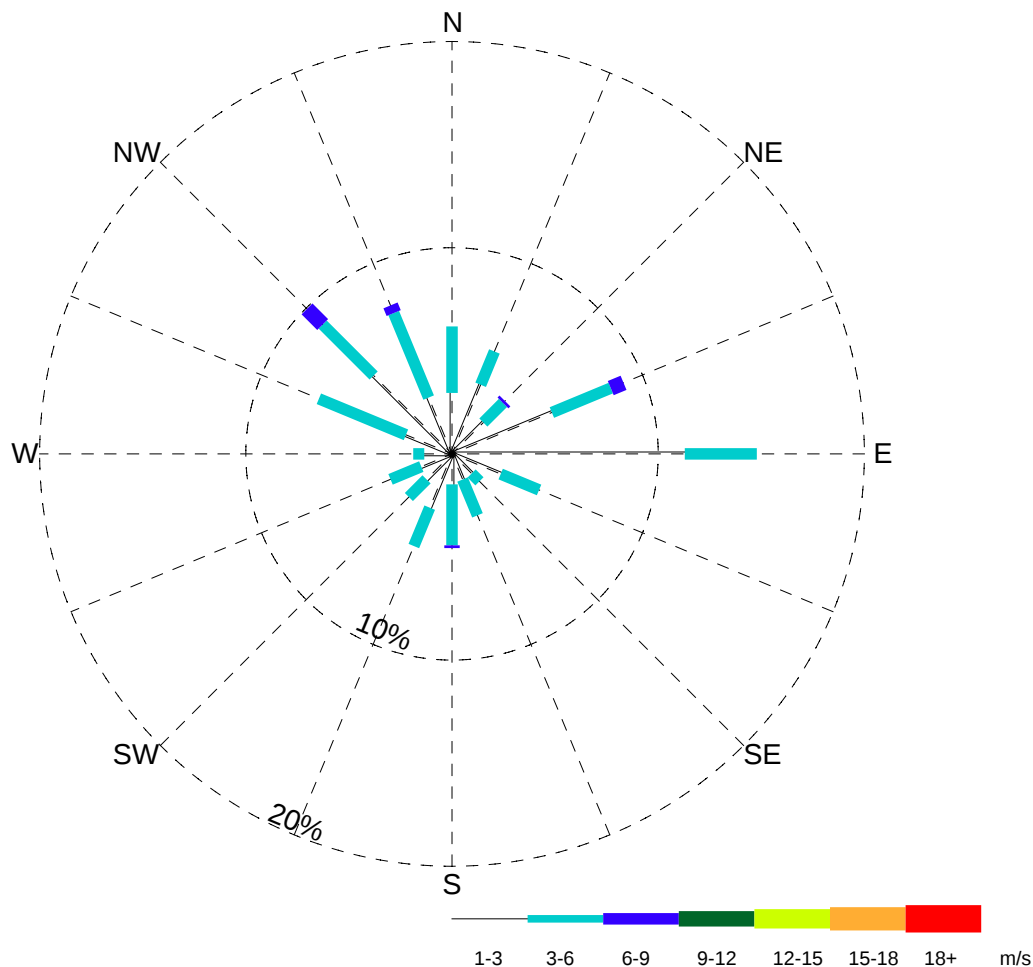
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Figure C-10



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	5.24	3.09	0.67	-	-	-	-	9.01
NE	-	2.15	1.34	0.13	-	-	-	-	3.63
NNE	-	3.63	1.75	-	-	-	-	-	5.38
N	-	2.96	3.23	-	-	-	-	-	6.18
NNW	-	2.96	4.43	0.40	-	-	-	-	7.80
NW	-	5.38	3.49	1.08	-	-	-	-	9.95
WNW	-	2.42	4.57	-	-	-	-	-	6.99
W	-	1.34	0.54	-	-	-	-	-	1.88
WSW	-	1.61	1.61	-	-	-	-	-	3.23
SW	-	1.75	1.21	-	-	-	-	-	2.96
SSW	-	2.82	2.02	-	-	-	-	-	4.84
S	-	1.48	2.96	0.13	-	-	-	-	4.57
SSE	-	1.34	1.88	-	-	-	-	-	3.23
SE	-	1.34	0.54	-	-	-	-	-	1.88
ESE	-	2.55	2.02	-	-	-	-	-	4.57
E	-	11.29	3.49	-	-	-	-	-	14.78
Calm	9.14	-	-	-	-	-	-	-	9.14
Total (%)	9.14	50.27	38.17	2.42	-	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 31 days

Start Date: July 01, 2005

End Date: July 31, 2005

NOTES

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**Tyhee Station
Wind Rose
July 2005**

PROJECT NO.
Y22101057

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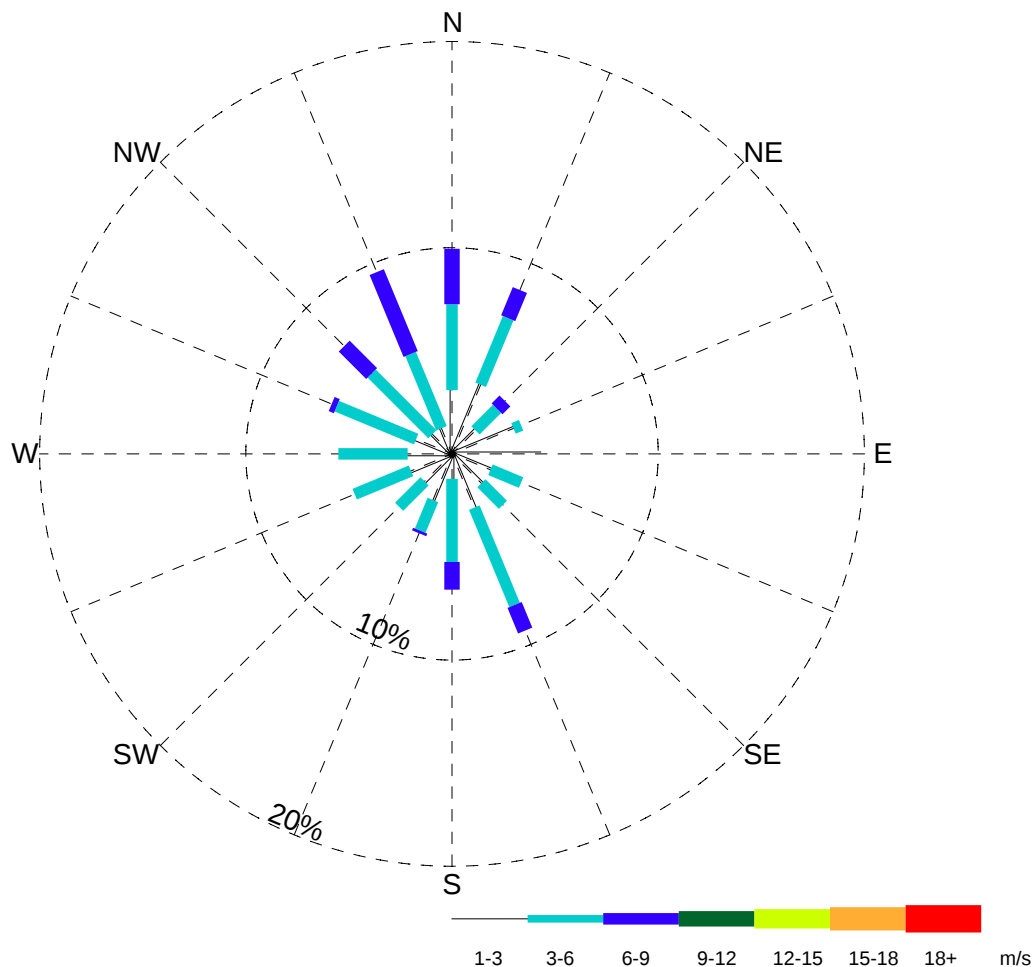
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Figure C-11



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	3.23	0.40	-	-	-	-	-	3.63
NE	-	1.61	1.48	0.54	-	-	-	-	3.63
NNE	-	3.63	3.49	1.48	-	-	-	-	8.60
N	-	3.09	4.17	2.69	-	-	-	-	9.95
NNW	-	1.34	3.90	4.30	-	-	-	-	9.54
NW	-	1.34	4.17	1.88	-	-	-	-	7.39
WNW	-	1.88	4.17	0.27	-	-	-	-	6.32
W	-	2.15	3.36	-	-	-	-	-	5.51
WSW	-	2.15	2.96	-	-	-	-	-	5.11
SW	-	1.88	1.75	-	-	-	-	-	3.63
SSW	-	2.42	1.61	0.13	-	-	-	-	4.17
S	-	1.21	4.03	1.34	-	-	-	-	6.59
SSE	-	2.82	5.11	1.34	-	-	-	-	9.27
SE	-	2.02	1.48	-	-	-	-	-	3.49
ESE	-	2.02	1.61	-	-	-	-	-	3.63
E	-	4.30	-	-	-	-	-	-	4.30
Calm	5.24	-	-	-	-	-	-	-	5.24
Total (%)	5.24	37.10	43.68	13.98	-	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 31 days

Start Date: Aug. 01, 2005

End Date: Aug. 31, 2005

NOTES

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**Tyhee Station
Wind Rose
August 2005**

PROJECT NO.
Y22101057

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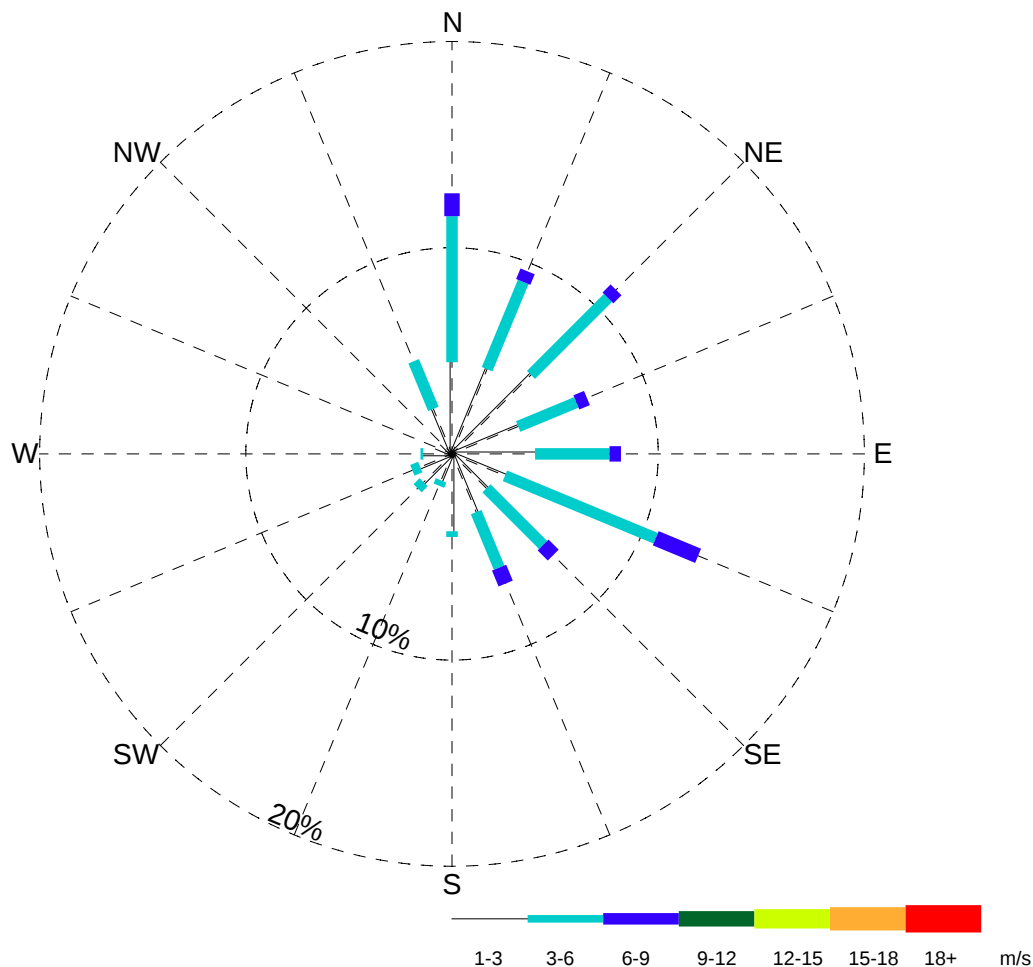
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Figure C-12



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	3.47	3.06	0.56	-	-	-	-	7.08
NE	-	5.42	5.28	0.56	-	-	-	-	11.25
NNE	-	4.44	4.58	0.56	-	-	-	-	9.58
N	-	4.44	7.08	1.11	-	-	-	-	12.64
NNW	-	2.36	2.50	-	-	-	-	-	4.86
NW	-	0.69	-	-	-	-	-	-	0.69
WNW	-	0.83	-	-	-	-	-	-	0.83
W	-	1.39	0.14	-	-	-	-	-	1.53
WSW	-	1.67	0.42	-	-	-	-	-	2.08
SW	-	1.94	0.42	-	-	-	-	-	2.36
SSW	-	1.39	0.28	-	-	-	-	-	1.67
S	-	3.75	0.28	-	-	-	-	-	4.03
SSE	-	3.06	2.92	0.83	-	-	-	-	6.81
SE	-	2.36	3.89	0.69	-	-	-	-	6.94
ESE	-	2.78	7.92	2.22	-	-	-	-	12.92
E	-	4.03	3.61	0.56	-	-	-	-	8.19
Calm	6.53	-	-	-	-	-	-	-	6.53
Total (%)	6.53	44.03	42.36	7.08	-	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 30 days

Start Date: Sep. 01, 2005

End Date: Sep. 30, 2005

NOTES

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**EBA Engineering
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YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Rose
September 2005**

PROJECT NO.
Y22101057

DWN
TM

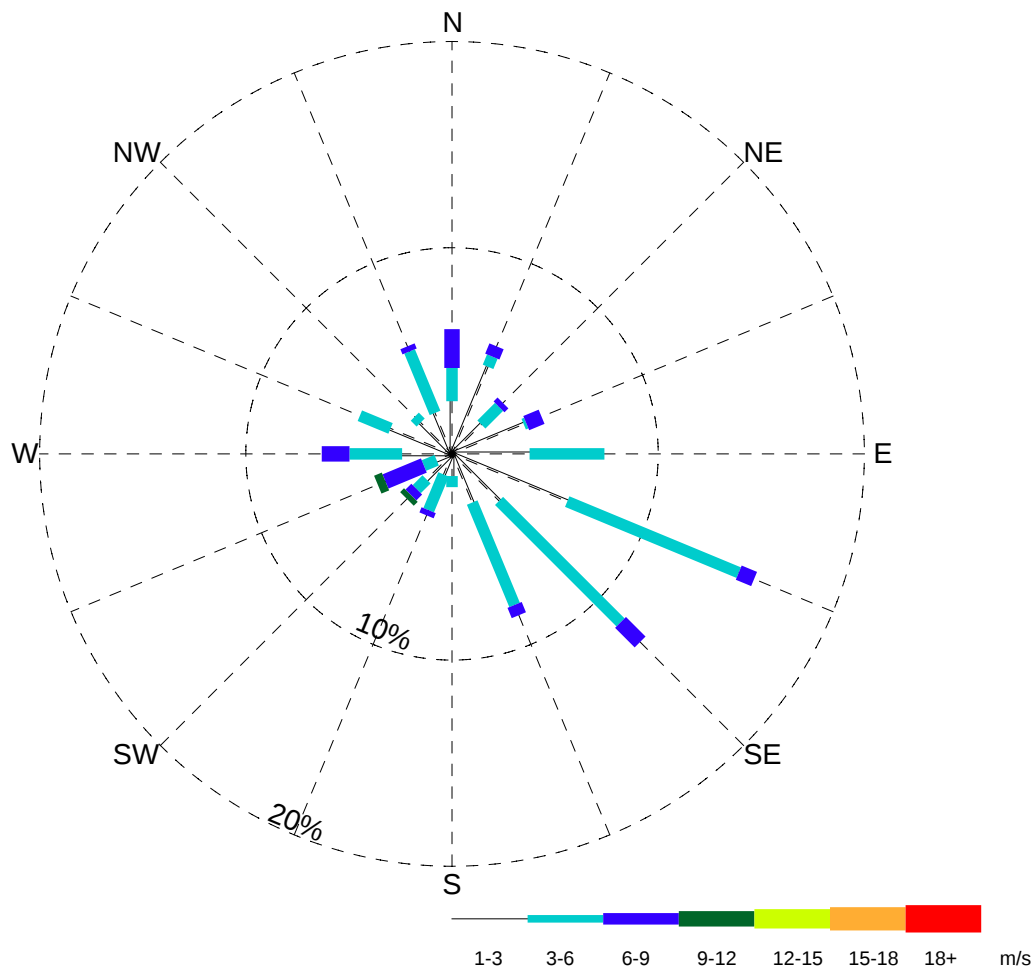
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May 2009

Figure C-13



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	3.76	0.13	0.81	-	-	-	-	4.70
NE	-	2.02	1.21	0.27	-	-	-	-	3.49
NNE	-	4.57	0.54	0.54	-	-	-	-	5.64
N	-	2.55	1.61	1.88	-	-	-	-	6.05
NNW	-	2.15	3.23	0.27	-	-	-	-	5.64
NW	-	2.15	0.40	-	-	-	-	-	2.55
WNW	-	3.23	1.61	-	-	-	-	-	4.84
W	-	2.42	2.55	1.34	-	-	-	-	6.32
WSW	-	0.81	0.67	2.02	0.40	-	-	-	3.90
SW	-	1.75	0.67	0.40	0.27	-	-	-	3.09
SSW	-	1.08	1.88	0.27	-	-	-	-	3.23
S	-	1.08	0.54	-	-	-	-	-	1.61
SSE	-	2.55	5.38	0.54	-	-	-	-	8.47
SE	-	3.23	8.33	1.34	-	-	-	-	12.90
ESE	-	6.05	9.01	0.81	-	-	-	-	15.86
E	-	3.76	3.63	-	-	-	-	-	7.39
Calm	4.30	-	-	-	-	-	-	-	4.30
Total (%)	4.30	43.15	41.40	10.48	0.67	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 31 days

Start Date: Oct. 01, 2005

End Date: Oct. 31, 2005

NOTES

CLIENT



EBA Engineering Consultants Ltd. 

**YELLOWKNIFE GOLD PROJECT
2008 HYDROMETEOROLOGICAL REPORT**

**Tyhee Station
Wind Rose
October 2005**

PROJECT NO.
Y22101057

DWN
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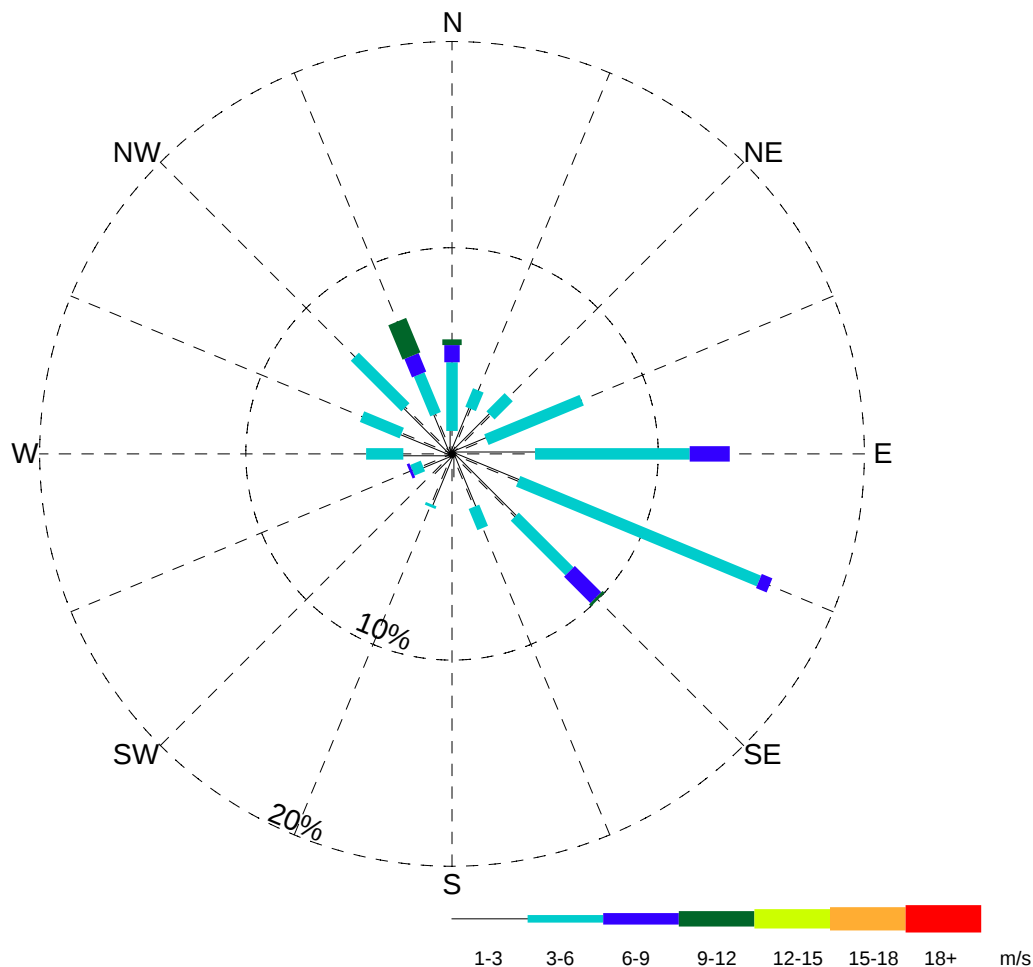
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Figure C-14



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	1.81	5.00	-	-	-	-	-	6.81
NE	-	2.64	1.25	-	-	-	-	-	3.89
NNE	-	2.36	0.97	-	-	-	-	-	3.33
N	-	1.11	3.33	0.83	0.28	-	-	-	5.56
NNW	-	2.08	2.08	0.97	1.81	-	-	-	6.94
NW	-	3.19	3.47	-	-	-	-	-	6.67
WNW	-	2.64	2.08	-	-	-	-	-	4.72
W	-	2.36	1.81	-	-	-	-	-	4.17
WSW	-	1.53	0.56	0.14	-	-	-	-	2.22
SW	-	1.25	-	-	-	-	-	-	1.25
SSW	-	2.64	0.14	-	-	-	-	-	2.78
S	-	1.11	-	-	-	-	-	-	1.11
SSE	-	2.78	1.11	-	-	-	-	-	3.89
SE	-	4.31	3.75	1.81	0.14	-	-	-	10.00
ESE	-	3.47	12.64	0.56	-	-	-	-	16.67
E	-	4.03	7.50	1.94	-	-	-	-	13.47
Calm	6.53	-	-	-	-	-	-	-	6.53
Total (%)	6.53	39.31	45.69	6.25	2.22	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 30 days

Start Date: Nov. 01, 2005

End Date: Nov. 30, 2005

NOTES

CLIENT



EBA Engineering Consultants Ltd. 

**YELLOWKNIFE GOLD PROJECT
2008 HYDROMETEOROLOGICAL REPORT**

**Tyhee Station
Wind Rose
November 2005**

PROJECT NO.
Y22101057

DWN
TM

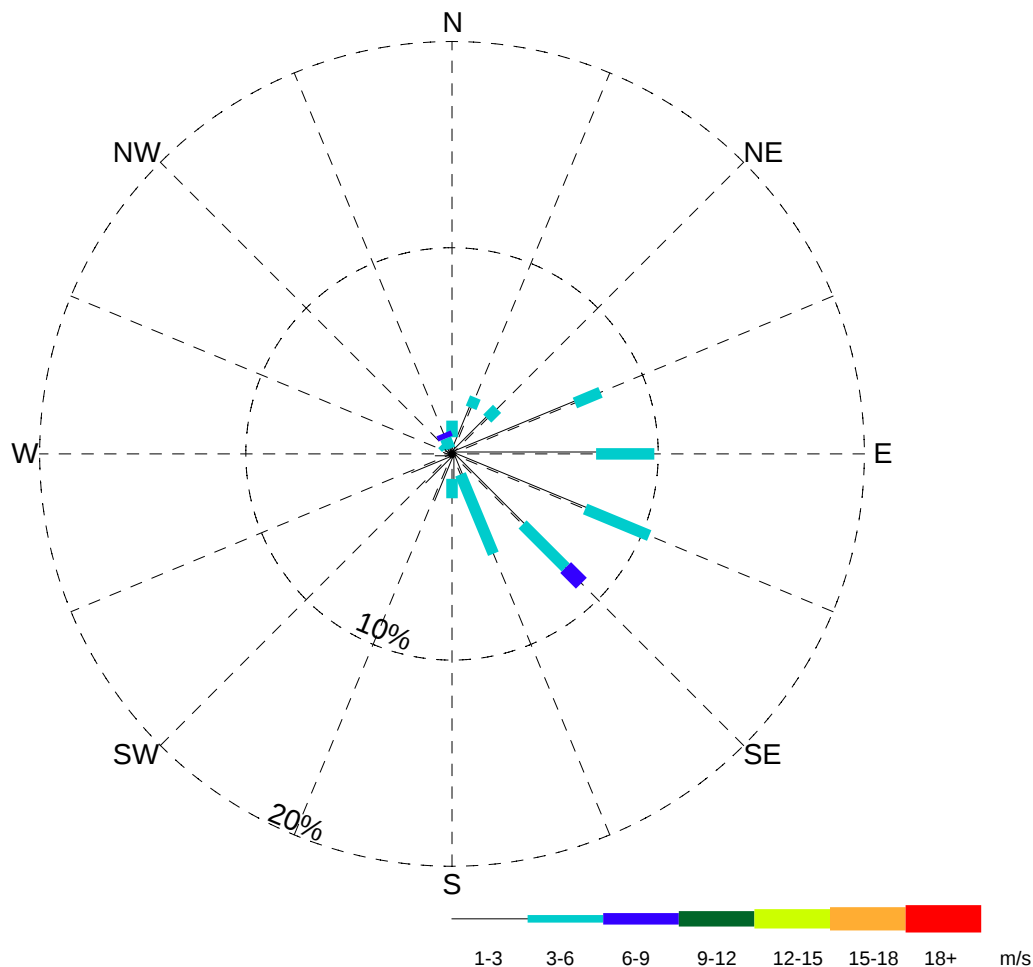
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Figure C-15



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	6.45	1.34	-	-	-	-	-	7.80
NE	-	2.42	0.67	-	-	-	-	-	3.09
NNE	-	2.42	0.54	-	-	-	-	-	2.96
N	-	0.81	0.81	-	-	-	-	-	1.61
NNW	-	0.27	0.54	0.27	-	-	-	-	1.08
NW	-	0.40	0.27	-	-	-	-	-	0.67
WNW	-	0.40	-	-	-	-	-	-	0.40
W	-	0.81	-	-	-	-	-	-	0.81
WSW	-	2.15	-	-	-	-	-	-	2.15
SW	-	1.88	-	-	-	-	-	-	1.88
SSW	-	2.42	-	-	-	-	-	-	2.42
S	-	1.21	0.94	-	-	-	-	-	2.15
SSE	-	1.08	4.17	-	-	-	-	-	5.24
SE	-	4.84	2.96	1.08	-	-	-	-	8.87
ESE	-	6.99	3.36	-	-	-	-	-	10.35
E	-	6.99	2.82	-	-	-	-	-	9.81
Calm	38.71	-	-	-	-	-	-	-	38.71
Total (%)	38.71	41.53	18.41	1.34	-	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 31 days

Start Date: Dec. 01, 2005

End Date: Dec. 31, 2005

NOTES

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EBA Engineering Consultants Ltd. 

**YELLOWKNIFE GOLD PROJECT
2008 HYDROMETEOROLOGICAL REPORT**

**Tyhee Station
Wind Rose
December 2005**

PROJECT NO.
Y22101057

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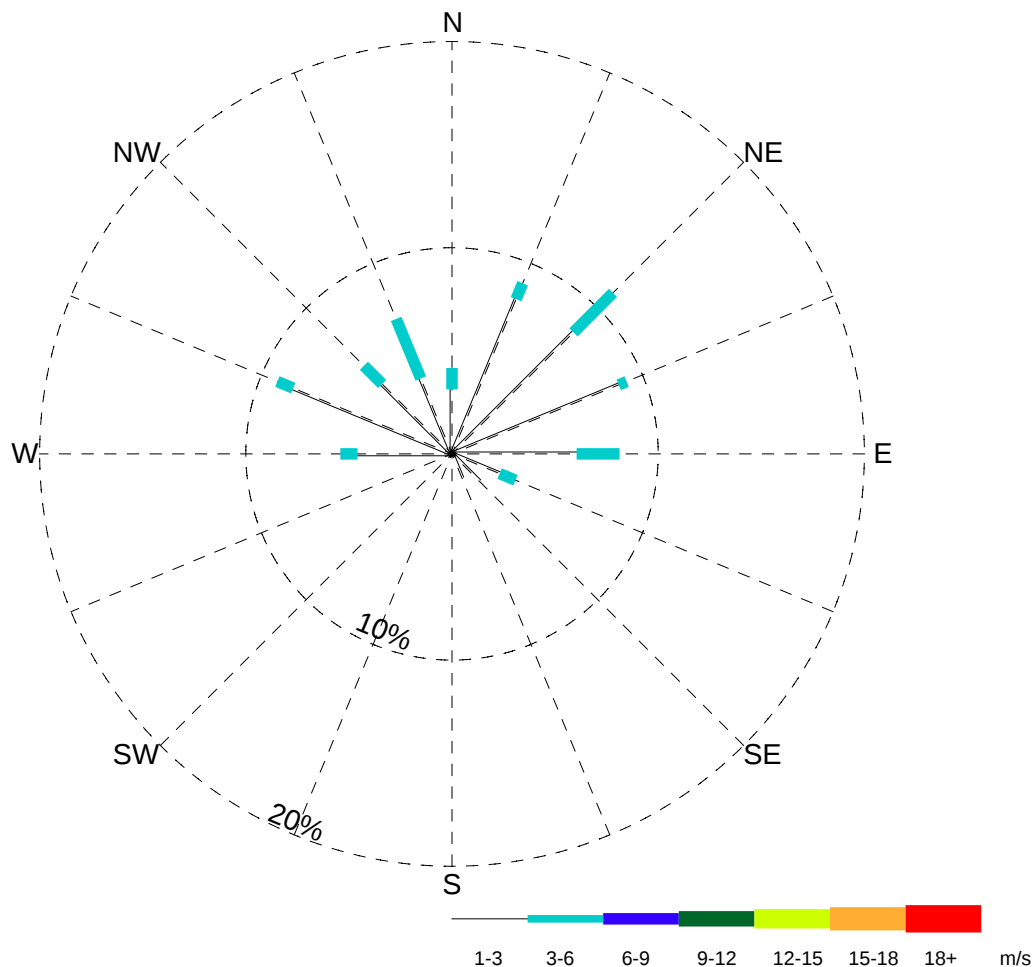
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Figure C-16



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	8.75	0.42	-	-	-	-	-	9.17
NE	-	8.33	2.71	-	-	-	-	-	11.04
NNE	-	8.12	0.83	-	-	-	-	-	8.96
N	-	3.12	1.04	-	-	-	-	-	4.17
NNW	-	3.96	3.12	-	-	-	-	-	7.08
NW	-	4.79	1.25	-	-	-	-	-	6.04
WNW	-	8.33	0.83	-	-	-	-	-	9.17
W	-	4.58	0.83	-	-	-	-	-	5.42
WSW	-	0.21	-	-	-	-	-	-	0.21
SW	-	-	-	-	-	-	-	-	-
SSW	-	-	-	-	-	-	-	-	-
S	-	-	-	-	-	-	-	-	-
SSE	-	1.25	-	-	-	-	-	-	1.25
SE	-	1.88	-	-	-	-	-	-	1.88
ESE	-	2.50	0.83	-	-	-	-	-	3.33
E	-	6.04	2.08	-	-	-	-	-	8.12
Calm	24.17	-	-	-	-	-	-	-	24.17
Total (%)	24.17	61.88	13.96	-	-	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 20 days

Start Date: Jan. 12, 2006

End Date: Jan. 31, 2006

NOTES

Suspected erroneous wind data between January 1st and 12th has been removed from the record.

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YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Rose
January 2006**

PROJECT NO.
Y22101057

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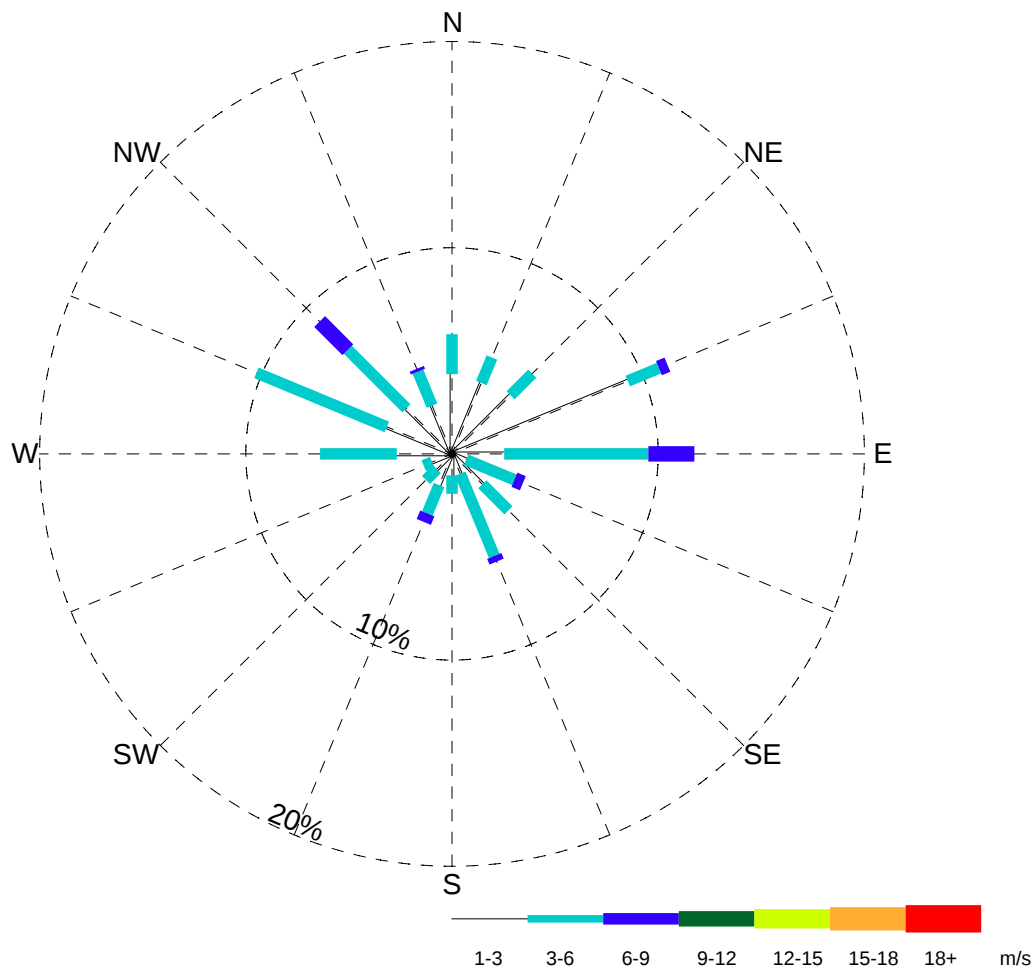
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Figure C-17



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	9.23	1.64	0.45	-	-	-	-	11.31
NE	-	4.02	1.49	-	-	-	-	-	5.51
NNE	-	3.72	1.34	-	-	-	-	-	5.06
N	-	3.87	1.93	-	-	-	-	-	5.80
NNW	-	2.53	1.79	0.15	-	-	-	-	4.46
NW	-	3.12	4.02	1.93	-	-	-	-	9.08
WNW	-	3.42	6.84	-	-	-	-	-	10.27
W	-	2.68	3.72	-	-	-	-	-	6.40
WSW	-	1.04	0.45	-	-	-	-	-	1.49
SW	-	1.04	0.74	-	-	-	-	-	1.79
SSW	-	1.64	1.49	0.45	-	-	-	-	3.57
S	-	1.04	0.89	-	-	-	-	-	1.93
SSE	-	1.04	4.32	0.30	-	-	-	-	5.66
SE	-	2.08	1.79	-	-	-	-	-	3.87
ESE	-	0.74	2.53	0.45	-	-	-	-	3.72
E	-	2.53	6.99	2.23	-	-	-	-	11.76
Calm	8.33	-	-	-	-	-	-	-	8.33
Total (%)	8.33	43.75	41.96	5.95	-	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 28 days

Start Date: Feb. 01, 2006

End Date: Feb. 28, 2006

NOTES

CLIENT



EBA Engineering Consultants Ltd.



YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Rose
February 2006**

PROJECT NO.
Y22101057

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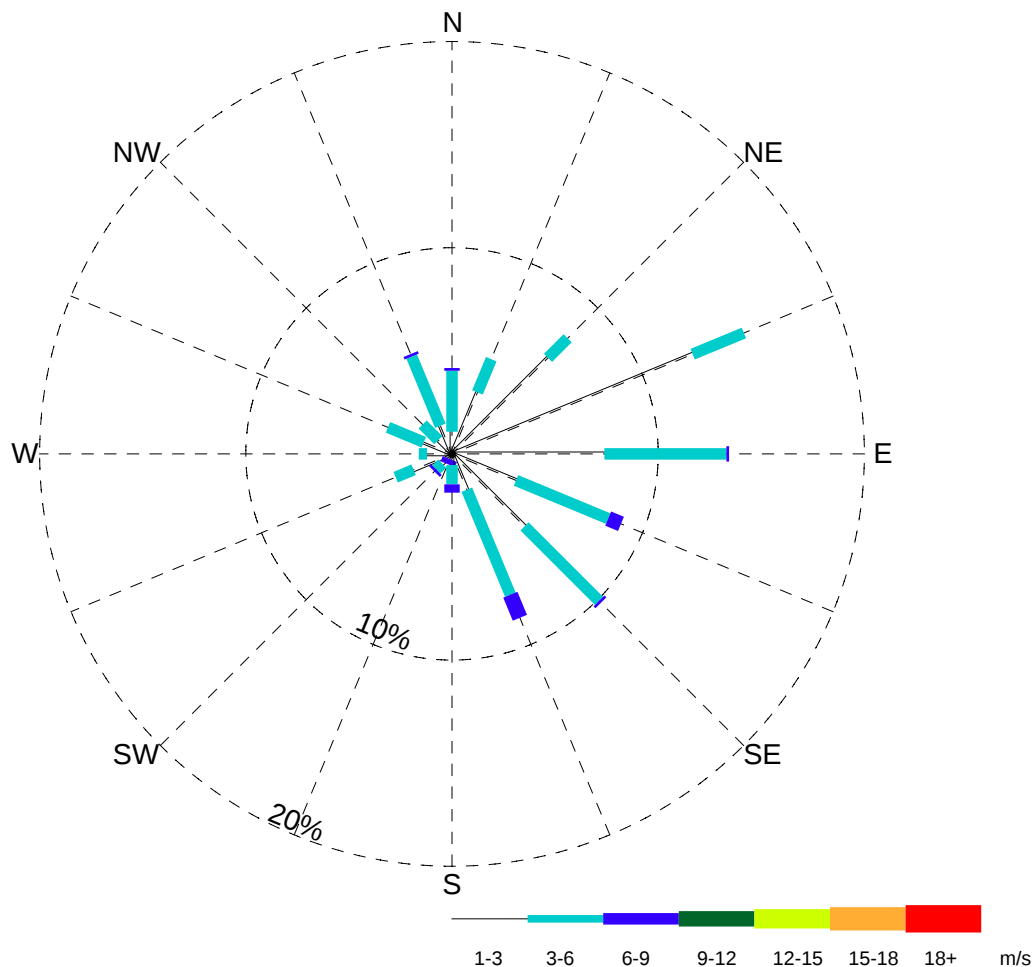
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Figure C-18



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	12.63	2.69	-	-	-	-	-	15.32
NE	-	6.59	1.34	-	-	-	-	-	7.93
NNE	-	3.23	1.75	-	-	-	-	-	4.97
N	-	1.08	2.96	0.13	-	-	-	-	4.17
NNW	-	1.48	3.63	0.13	-	-	-	-	5.24
NW	-	0.94	1.08	-	-	-	-	-	2.02
WNW	-	1.48	1.88	-	-	-	-	-	3.36
W	-	1.21	0.40	-	-	-	-	-	1.61
WSW	-	2.02	0.94	-	-	-	-	-	2.96
SW	-	0.67	0.40	0.13	-	-	-	-	1.21
SSW	-	0.27	-	0.27	-	-	-	-	0.54
S	-	0.54	0.94	0.40	-	-	-	-	1.88
SSE	-	1.88	5.51	1.21	-	-	-	-	8.60
SE	-	4.97	5.11	0.13	-	-	-	-	10.22
ESE	-	3.36	4.84	0.67	-	-	-	-	8.87
E	-	7.39	5.91	0.13	-	-	-	-	13.44
Calm	7.66	-	-	-	-	-	-	-	7.66
Total (%)	7.66	49.73	39.38	3.23	-	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 31 days

Start Date: Mar. 01, 2006

End Date: Mar. 31, 2006

NOTES

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YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Rose
March 2006**

PROJECT NO.
Y22101057

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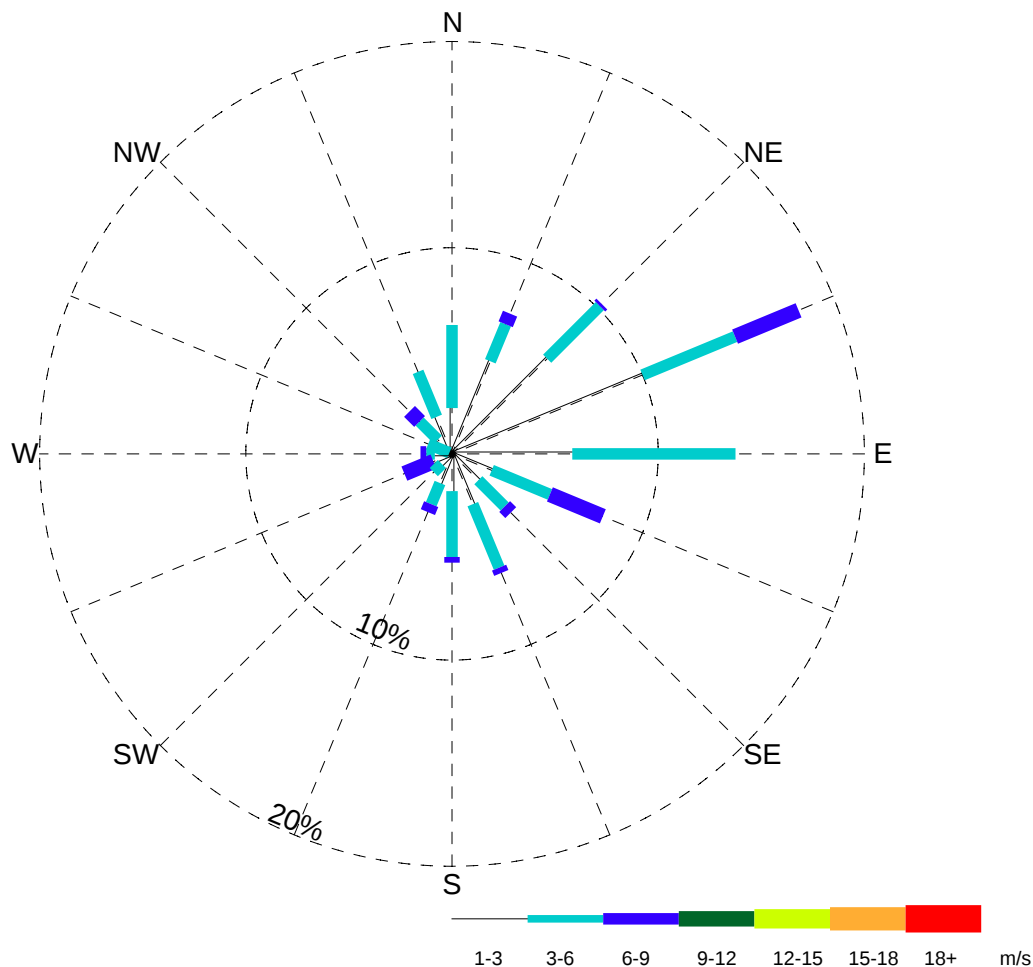
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Figure C-19



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	10.00	4.86	3.33	-	-	-	-	18.19
NE	-	6.53	3.61	0.14	-	-	-	-	10.28
NNE	-	4.86	1.94	0.56	-	-	-	-	7.36
N	-	2.22	4.03	-	-	-	-	-	6.25
NNW	-	1.94	2.36	-	-	-	-	-	4.31
NW	-	0.97	1.25	0.69	-	-	-	-	2.92
WNW	-	0.14	1.11	-	-	-	-	-	1.25
W	-	0.83	0.42	0.28	-	-	-	-	1.53
WSW	-	0.97	-	1.53	-	-	-	-	2.50
SW	-	0.69	0.56	-	-	-	-	-	1.25
SSW	-	1.53	1.11	0.42	-	-	-	-	3.06
S	-	1.81	3.19	0.28	-	-	-	-	5.28
SSE	-	2.64	3.33	0.28	-	-	-	-	6.25
SE	-	1.81	1.81	0.42	-	-	-	-	4.03
ESE	-	2.08	3.06	2.78	-	-	-	-	7.92
E	-	5.83	7.92	-	-	-	-	-	13.75
Calm	3.89	-	-	-	-	-	-	-	3.89
Total (%)	3.89	44.86	40.56	10.69	-	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 30 days

Start Date: Apr. 01, 2006

End Date: Apr. 30, 2006

NOTES

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EBA Engineering Consultants Ltd. 

**YELLOWKNIFE GOLD PROJECT
2008 HYDROMETEOROLOGICAL REPORT**

**Tyhee Station
Wind Rose
April 2006**

PROJECT NO.
Y22101057

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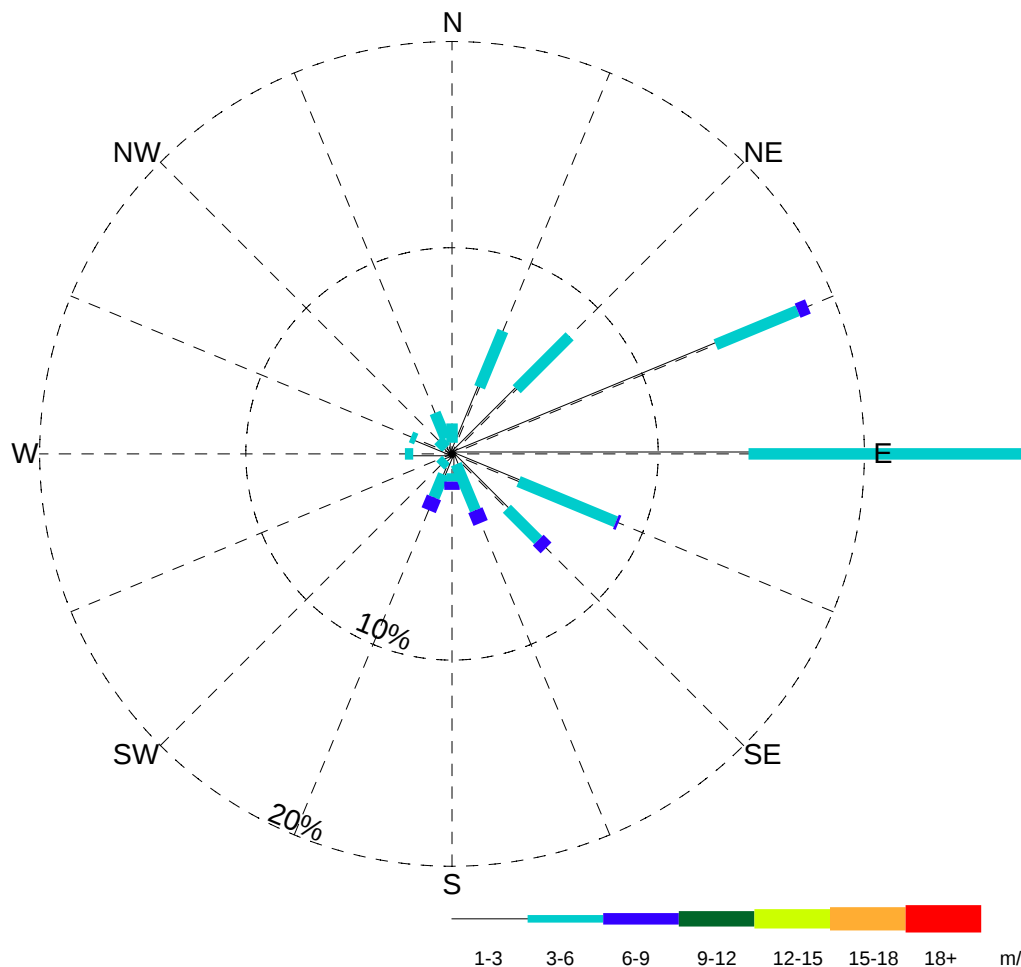
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Figure C-20



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	13.84	4.30	0.54	-	-	-	-	18.68
NE	-	4.43	3.63	-	-	-	-	-	8.06
NNE	-	3.49	2.96	-	-	-	-	-	6.45
N	-	0.54	0.94	-	-	-	-	-	1.48
NNW	-	0.81	1.34	-	-	-	-	-	2.15
NW	-	0.40	0.54	-	-	-	-	-	0.94
WNW	-	1.88	0.27	-	-	-	-	-	2.15
W	-	1.88	0.40	-	-	-	-	-	2.29
WSW	-	0.67	-	-	-	-	-	-	0.67
SW	-	0.40	0.40	-	-	-	-	-	0.81
SSW	-	1.08	1.21	0.67	-	-	-	-	2.96
S	-	0.94	0.40	0.40	-	-	-	-	1.75
SSE	-	0.54	2.42	0.67	-	-	-	-	3.63
SE	-	3.76	2.15	0.54	-	-	-	-	6.45
ESE	-	3.49	5.11	0.13	-	-	-	-	8.74
E	-	14.38	13.31	0.27	-	-	-	-	27.96
Calm	4.84	-	-	-	-	-	-	-	4.84
Total (%)	4.84	52.55	39.38	3.23	-	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 31 days

Start Date: May. 01, 2006

End Date: May. 31, 2006

NOTES

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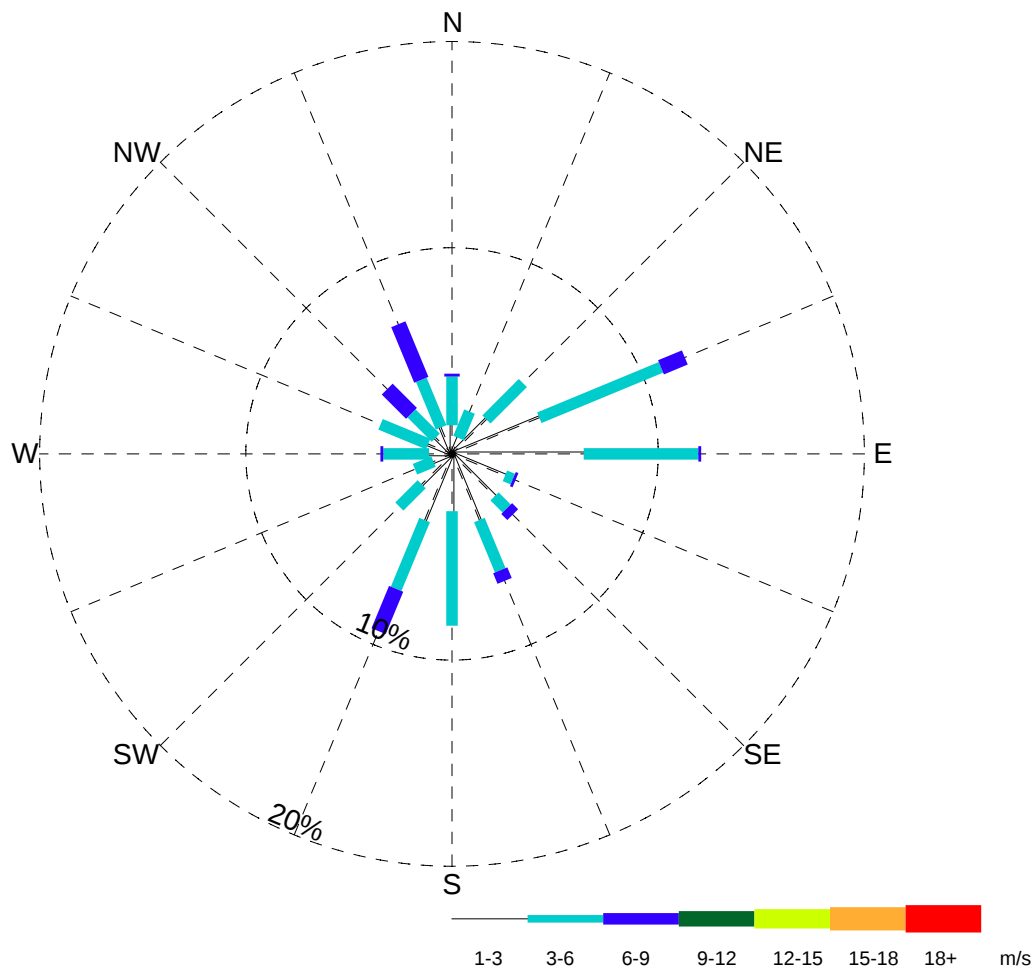
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**YELLOWKNIFE GOLD PROJECT
2008 HYDROMETEOROLOGICAL REPORT**

**Tyhee Station
Wind Rose
May 2006**

PROJECT NO. Y22101057	DWN TM	CHK JAS	REV 0
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Figure C-21



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	4.58	6.39	1.25	-	-	-	-	12.22
NE	-	2.36	2.50	-	-	-	-	-	4.86
NNE	-	0.83	1.39	-	-	-	-	-	2.22
N	-	1.39	2.36	0.14	-	-	-	-	3.89
NNW	-	1.39	2.50	2.92	-	-	-	-	6.81
NW	-	1.11	1.67	1.67	-	-	-	-	4.44
WNW	-	1.25	2.50	-	-	-	-	-	3.75
W	-	1.11	2.22	0.14	-	-	-	-	3.47
WSW	-	0.97	0.97	-	-	-	-	-	1.94
SW	-	2.08	1.53	-	-	-	-	-	3.61
SSW	-	3.47	3.61	2.22	-	-	-	-	9.31
S	-	2.78	5.56	-	-	-	-	-	8.33
SSE	-	3.47	2.64	0.56	-	-	-	-	6.67
SE	-	2.92	0.83	0.42	-	-	-	-	4.17
ESE	-	2.78	0.42	0.14	-	-	-	-	3.33
E	-	6.39	5.56	0.14	-	-	-	-	12.08
Calm	8.89	-	-	-	-	-	-	-	8.89
Total (%)	8.89	38.89	42.64	9.58	-	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 30 days

Start Date: June 01, 2006

End Date: June 30, 2006

NOTES

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EBA Engineering Consultants Ltd. 

YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Rose
June 2006**

PROJECT NO.
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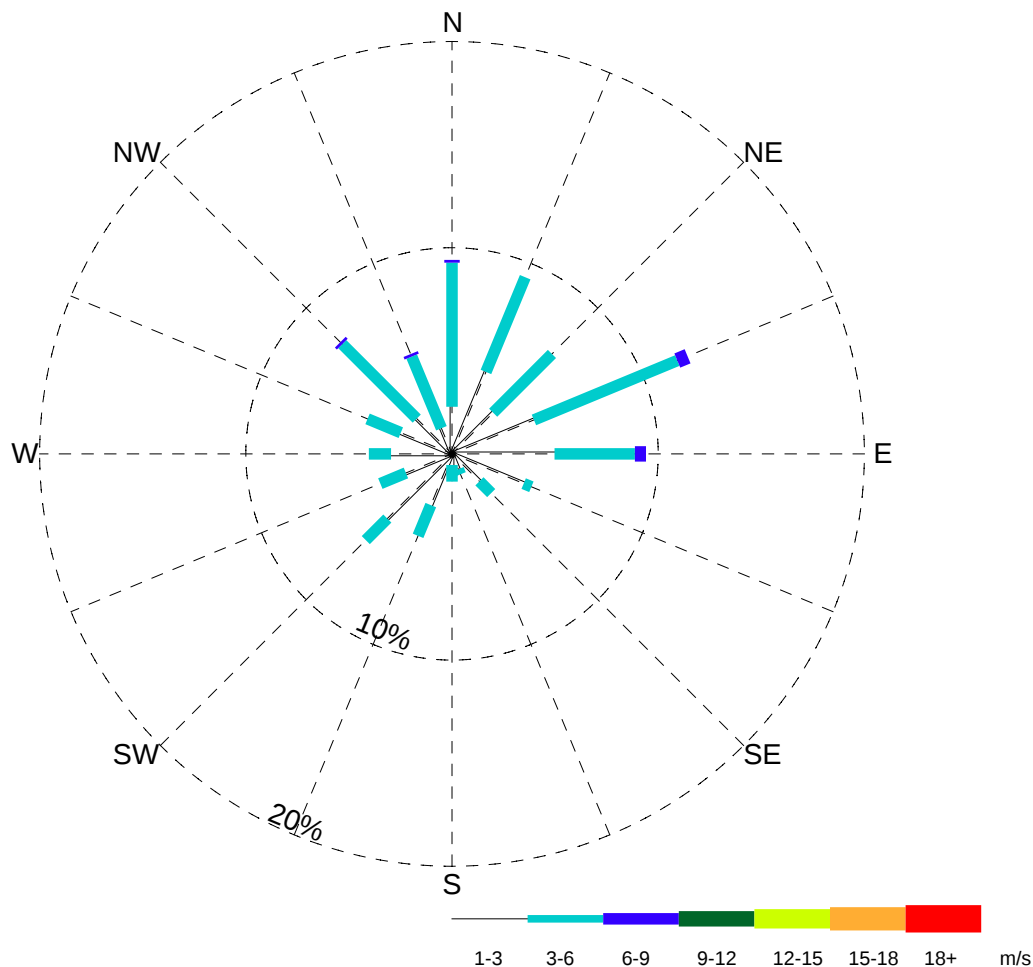
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Figure C-22



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	4.30	7.53	0.54	-	-	-	-	12.37
NE	-	2.82	4.03	-	-	-	-	-	6.86
NNE	-	4.30	4.97	-	-	-	-	-	9.27
N	-	2.29	6.99	0.13	-	-	-	-	9.41
NNW	-	1.34	3.76	0.13	-	-	-	-	5.24
NW	-	2.42	5.11	0.13	-	-	-	-	7.66
WNW	-	2.69	1.75	-	-	-	-	-	4.43
W	-	2.96	1.08	-	-	-	-	-	4.03
WSW	-	2.42	1.34	-	-	-	-	-	3.76
SW	-	4.43	1.48	-	-	-	-	-	5.91
SSW	-	2.69	1.61	-	-	-	-	-	4.30
S	-	0.54	0.81	-	-	-	-	-	1.34
SSE	-	0.81	0.27	-	-	-	-	-	1.08
SE	-	1.88	0.81	-	-	-	-	-	2.69
ESE	-	3.76	0.40	-	-	-	-	-	4.17
E	-	4.97	3.90	0.54	-	-	-	-	9.41
Calm	8.06	-	-	-	-	-	-	-	8.06
Total (%)	8.06	44.62	45.83	1.48	-	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 31 days

Start Date: July 01, 2006

End Date: July 31, 2006

NOTES

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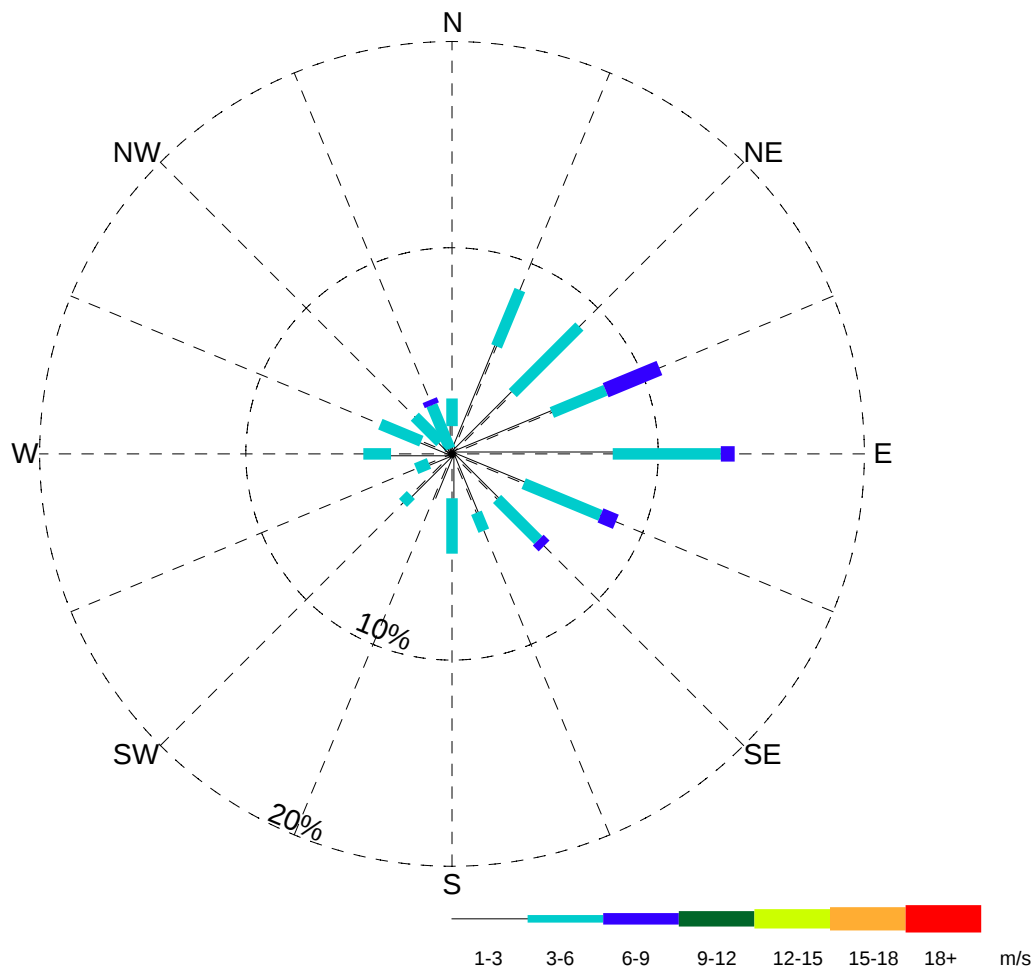
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**YELLOWKNIFE GOLD PROJECT
2008 HYDROMETEOROLOGICAL REPORT**

**Tyhee Station
Wind Rose
July 2006**

PROJECT NO. Y22101057	DWN TM	CHK JAS	REV 0
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Figure C-23



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	5.24	2.82	2.82	-	-	-	-	10.89
NE	-	4.17	4.57	-	-	-	-	-	8.74
NNE	-	5.64	2.96	-	-	-	-	-	8.60
N	-	1.34	1.34	-	-	-	-	-	2.69
NNW	-	0.27	2.29	0.27	-	-	-	-	2.82
NW	-	0.81	1.75	-	-	-	-	-	2.55
WNW	-	1.61	2.15	-	-	-	-	-	3.76
W	-	2.96	1.34	-	-	-	-	-	4.30
WSW	-	1.21	0.67	-	-	-	-	-	1.88
SW	-	2.82	0.54	-	-	-	-	-	3.36
SSW	-	2.29	-	-	-	-	-	-	2.29
S	-	2.15	2.69	-	-	-	-	-	4.84
SSE	-	3.09	0.94	-	-	-	-	-	4.03
SE	-	3.09	2.82	0.40	-	-	-	-	6.32
ESE	-	3.76	4.03	0.81	-	-	-	-	8.60
E	-	7.80	5.24	0.67	-	-	-	-	13.71
Calm	10.62	-	-	-	-	-	-	-	10.62
Total (%)	10.62	48.25	36.16	4.97	-	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 31 days

Start Date: Aug. 01, 2006

End Date: Aug. 31, 2006

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**Tyhee Station
Wind Rose
August 2006**

PROJECT NO.
Y22101057

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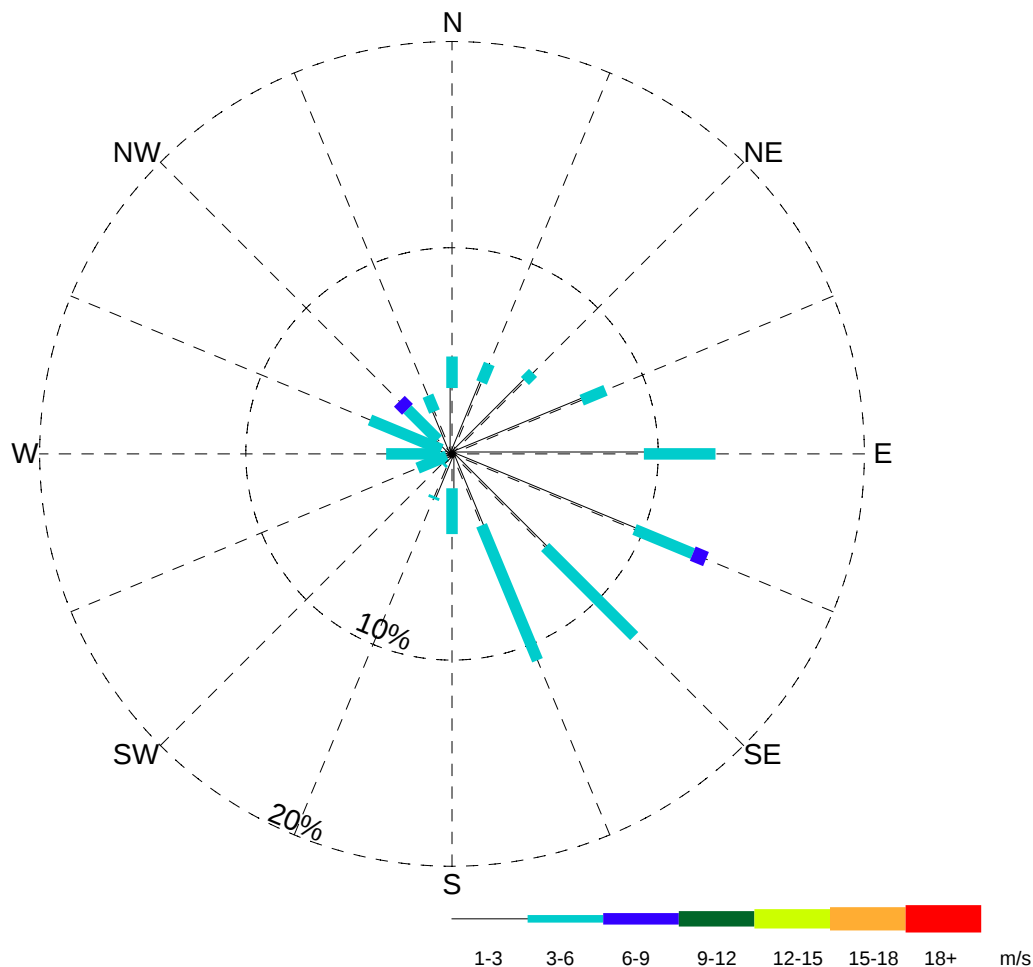
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Figure C-24



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	6.81	1.25	-	-	-	-	-	8.06
NE	-	5.00	0.56	-	-	-	-	-	5.56
NNE	-	3.75	0.97	-	-	-	-	-	4.72
N	-	3.19	1.53	-	-	-	-	-	4.72
NNW	-	2.22	0.83	-	-	-	-	-	3.06
NW	-	0.97	2.08	0.56	-	-	-	-	3.61
WNW	-	0.56	3.75	-	-	-	-	-	4.31
W	-	0.69	2.50	-	-	-	-	-	3.19
WSW	-	0.28	1.53	-	-	-	-	-	1.81
SW	-	0.56	0.14	-	-	-	-	-	0.69
SSW	-	2.22	0.14	-	-	-	-	-	2.36
S	-	1.67	2.22	-	-	-	-	-	3.89
SSE	-	3.75	7.08	-	-	-	-	-	10.83
SE	-	6.39	6.11	-	-	-	-	-	12.50
ESE	-	9.58	3.06	0.69	-	-	-	-	13.33
E	-	9.31	3.47	-	-	-	-	-	12.78
Calm	4.58	-	-	-	-	-	-	-	4.58
Total (%)	4.58	56.94	37.22	1.25	-	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 30 days

Start Date: Sep. 01, 2006

End Date: Sep. 30, 2006

NOTES

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**Tyhee Station
Wind Rose
September 2006**

PROJECT NO.
Y22101057

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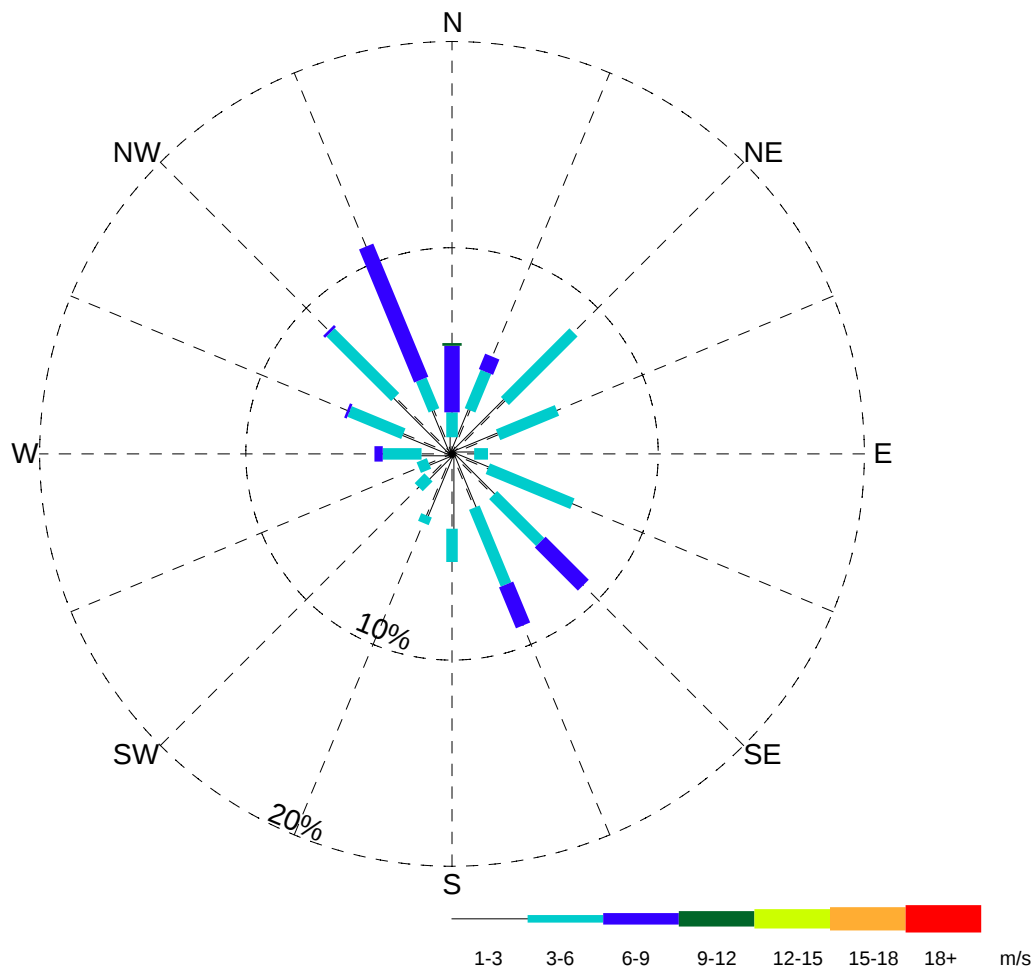
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Figure C-25



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	2.42	3.09	-	-	-	-	-	5.51
NE	-	3.63	4.70	-	-	-	-	-	8.33
NNE	-	2.29	2.02	0.81	-	-	-	-	5.11
N	-	0.81	1.21	3.23	0.13	-	-	-	5.38
NNW	-	2.29	1.61	6.99	-	-	-	-	10.89
NW	-	3.90	4.43	0.13	-	-	-	-	8.47
WNW	-	2.55	2.82	0.13	-	-	-	-	5.51
W	-	1.48	1.88	0.40	-	-	-	-	3.76
WSW	-	1.21	0.54	-	-	-	-	-	1.75
SW	-	1.61	0.67	-	-	-	-	-	2.29
SSW	-	3.23	0.40	-	-	-	-	-	3.63
S	-	3.63	1.61	-	-	-	-	-	5.24
SSE	-	2.82	4.03	2.15	-	-	-	-	9.01
SE	-	2.82	3.23	2.96	-	-	-	-	9.01
ESE	-	1.88	4.43	-	-	-	-	-	6.32
E	-	1.08	0.67	-	-	-	-	-	1.75
Calm	8.06	-	-	-	-	-	-	-	8.06
Total (%)	8.06	37.63	37.37	16.80	0.13	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 31 days

Start Date: Oct. 01, 2006

End Date: Oct. 31, 2006

NOTES

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**Tyhee Station
Wind Rose
October 2006**

PROJECT NO.
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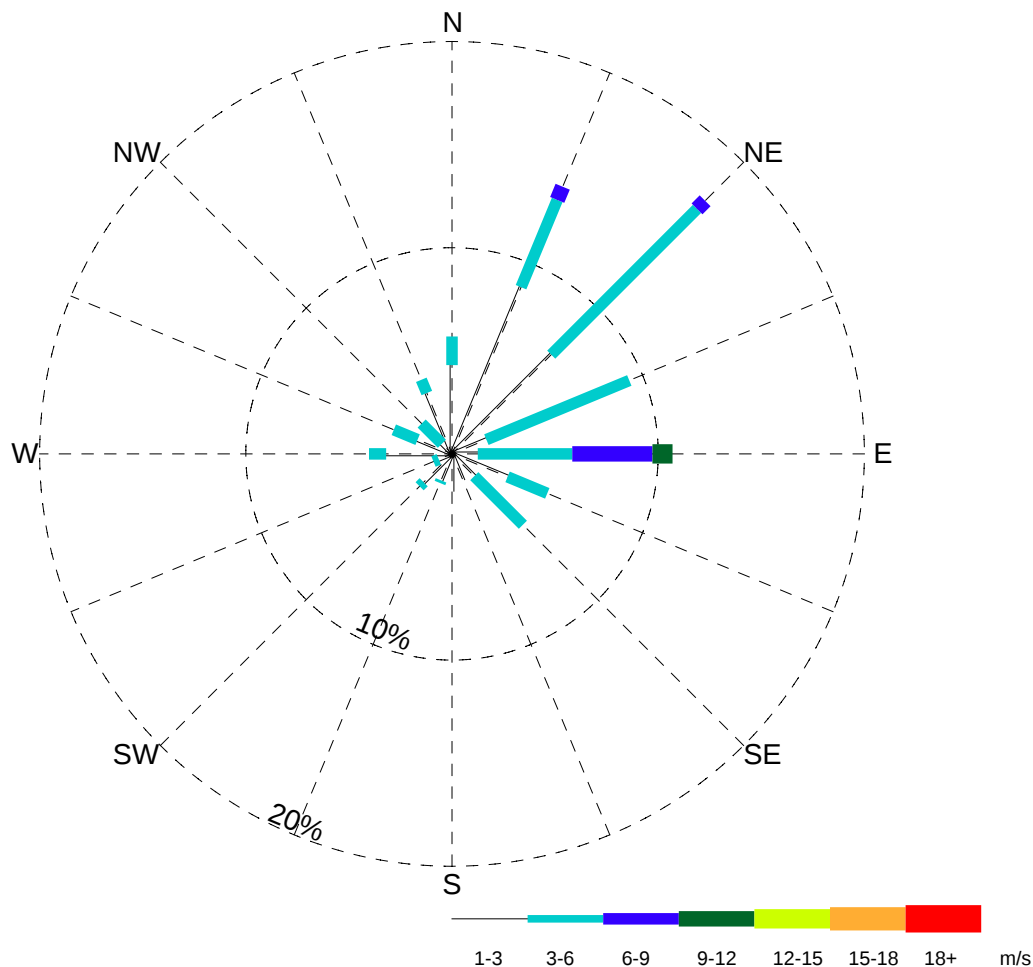
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Figure C-26



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	1.81	7.50	-	-	-	-	-	9.31
NE	-	6.81	10.00	0.56	-	-	-	-	17.36
NNE	-	8.75	4.58	0.69	-	-	-	-	14.03
N	-	4.31	1.39	-	-	-	-	-	5.69
NNW	-	3.19	0.69	-	-	-	-	-	3.89
NW	-	0.69	1.39	-	-	-	-	-	2.08
WNW	-	1.81	1.25	-	-	-	-	-	3.06
W	-	3.19	0.83	-	-	-	-	-	4.03
WSW	-	0.69	0.28	-	-	-	-	-	0.97
SW	-	1.94	0.28	-	-	-	-	-	2.22
SSW	-	1.39	0.14	-	-	-	-	-	1.53
S	-	1.81	-	-	-	-	-	-	1.81
SSE	-	1.39	-	-	-	-	-	-	1.39
SE	-	1.53	3.33	-	-	-	-	-	4.86
ESE	-	2.92	2.08	-	-	-	-	-	5.00
E	-	1.25	4.58	3.89	0.97	-	-	-	10.69
Calm	12.08	-	-	-	-	-	-	-	12.08
Total (%)	12.08	43.47	38.33	5.14	0.97	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 30 days

Start Date: Nov. 01, 2006

End Date: Nov. 30, 2006

NOTES

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**Tyhee Station
Wind Rose
November 2006**

PROJECT NO.
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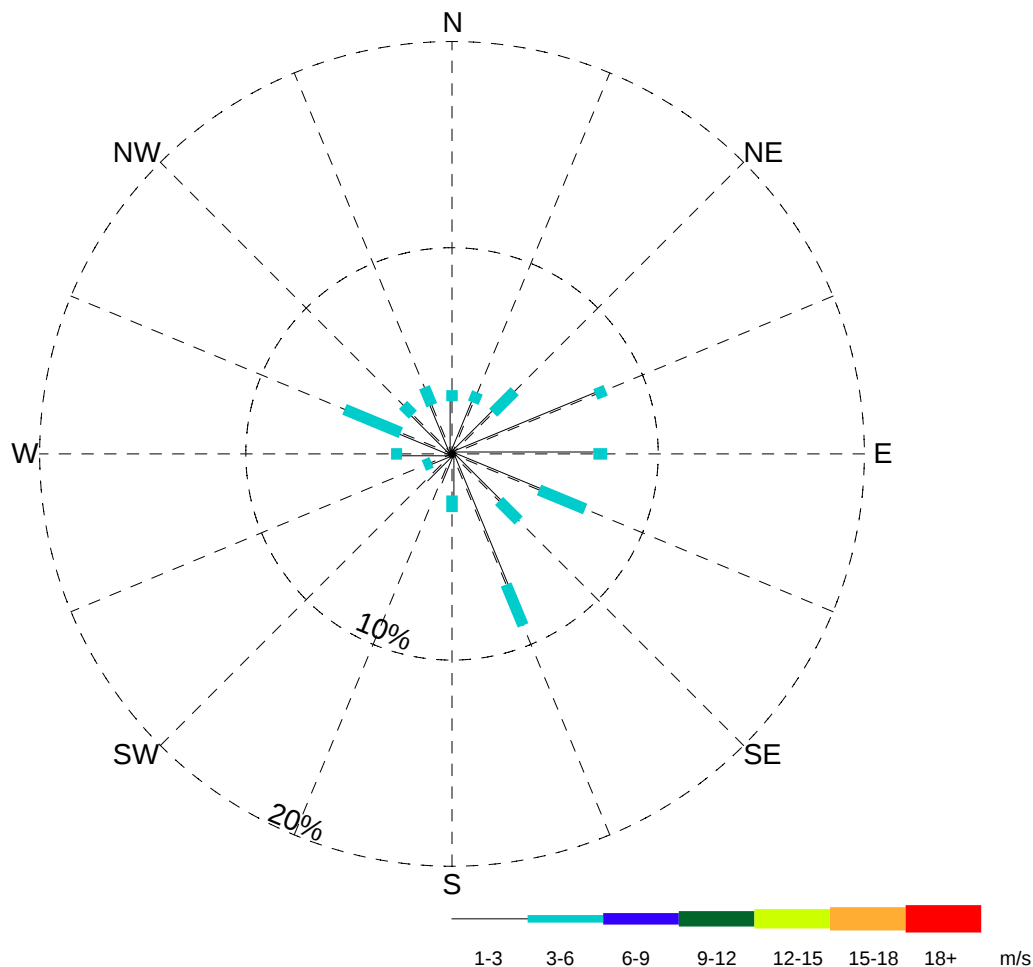
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Figure C-27



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	7.53	0.54	-	-	-	-	-	8.06
NE	-	2.82	1.48	-	-	-	-	-	4.30
NNE	-	2.69	0.54	-	-	-	-	-	3.23
N	-	2.55	0.54	-	-	-	-	-	3.09
NNW	-	2.55	0.94	-	-	-	-	-	3.49
NW	-	2.69	0.67	-	-	-	-	-	3.36
WNW	-	2.69	2.96	-	-	-	-	-	5.64
W	-	2.42	0.54	-	-	-	-	-	2.96
WSW	-	1.08	0.40	-	-	-	-	-	1.48
SW	-	1.75	-	-	-	-	-	-	1.75
SSW	-	1.48	-	-	-	-	-	-	1.48
S	-	2.02	0.81	-	-	-	-	-	2.82
SSE	-	6.86	2.15	-	-	-	-	-	9.01
SE	-	3.23	1.34	-	-	-	-	-	4.57
ESE	-	4.57	2.42	-	-	-	-	-	6.99
E	-	6.86	0.67	-	-	-	-	-	7.53
Calm	30.24	-	-	-	-	-	-	-	30.24
Total (%)	30.24	53.76	15.99	-	-	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 31 days

Start Date: Dec. 01, 2006

End Date: Dec. 31, 2006

NOTES

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YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Rose
December 2006**

PROJECT NO.
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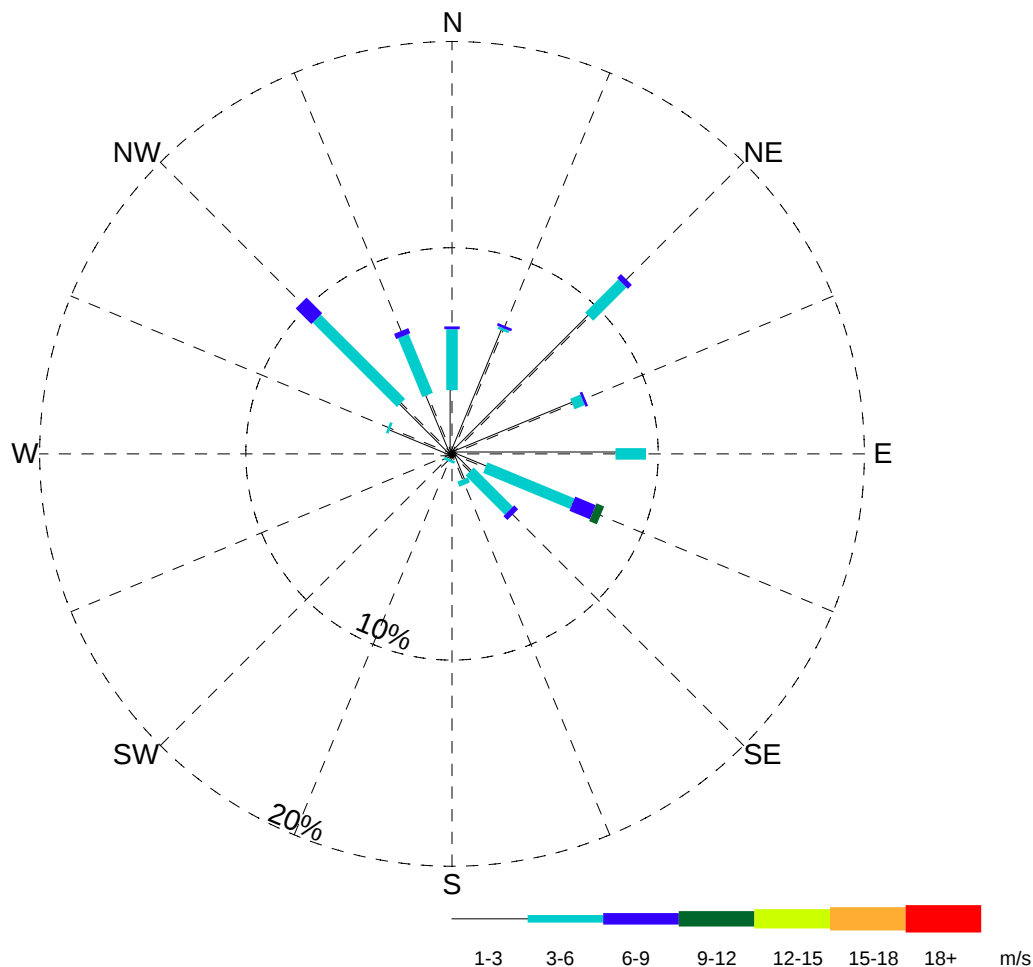
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Figure C-28



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	6.32	0.54	0.13	-	-	-	-	6.99
NE	-	9.41	2.29	0.27	-	-	-	-	11.96
NNE	-	6.45	0.13	0.13	-	-	-	-	6.72
N	-	3.09	2.96	0.13	-	-	-	-	6.18
NNW	-	3.09	3.09	0.27	-	-	-	-	6.45
NW	-	3.49	5.78	1.08	-	-	-	-	10.35
WNW	-	3.23	0.13	-	-	-	-	-	3.36
W	-	0.54	-	-	-	-	-	-	0.54
WSW	-	0.54	-	-	-	-	-	-	0.54
SW	-	0.81	-	-	-	-	-	-	0.81
SSW	-	0.27	0.13	-	-	-	-	-	0.40
S	-	0.27	-	-	-	-	-	-	0.27
SSE	-	1.34	0.27	-	-	-	-	-	1.61
SE	-	1.21	2.69	0.27	-	-	-	-	4.17
ESE	-	1.75	4.57	1.08	0.40	-	-	-	7.80
E	-	7.93	1.48	-	-	-	-	-	9.41
Calm	22.45	-	-	-	-	-	-	-	22.45
Total (%)	22.45	49.73	24.06	3.36	0.40	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 31 days

Start Date: Jan. 01, 2007

End Date: Jan. 31, 2007

NOTES

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**Tyhee Station
Wind Rose
January 2007**

PROJECT NO.
Y22101057

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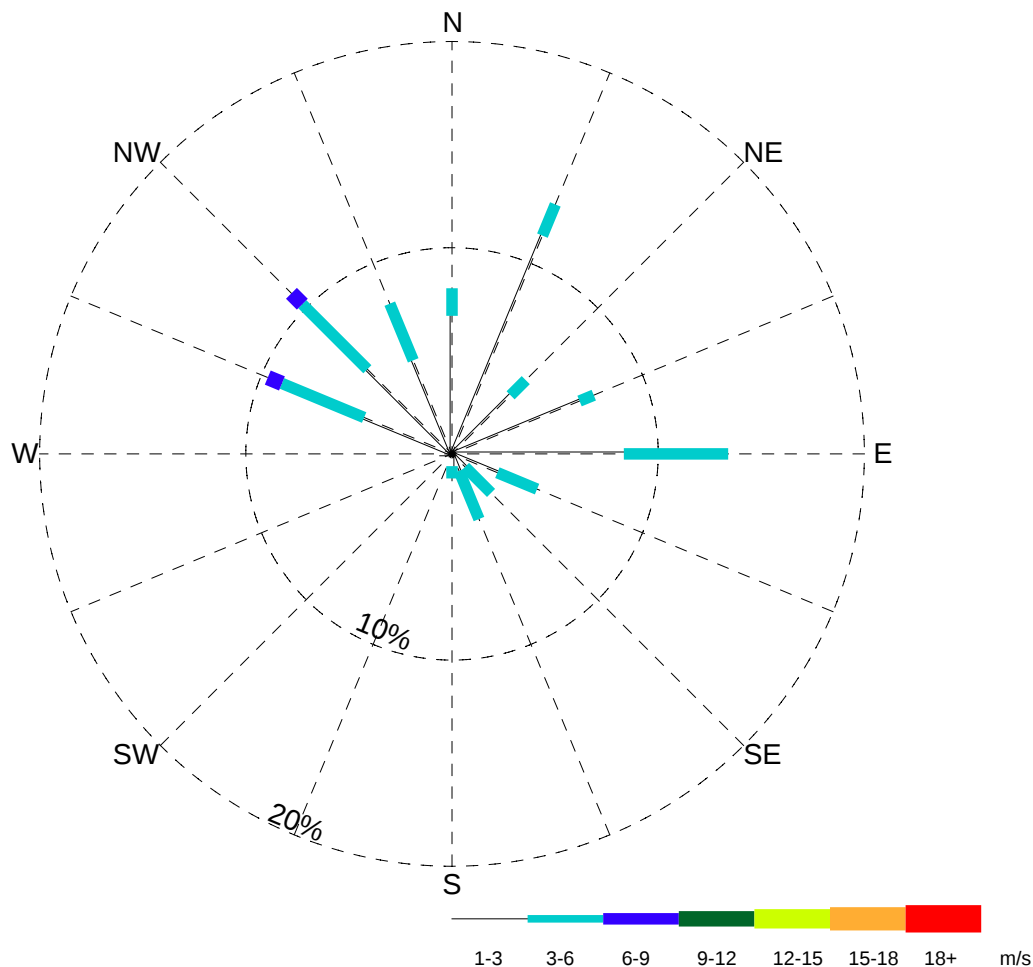
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Figure C-29



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	6.70	0.74	-	-	-	-	-	7.44
NE	-	4.02	1.04	-	-	-	-	-	5.06
NNE	-	11.46	1.64	-	-	-	-	-	13.10
N	-	6.70	1.34	-	-	-	-	-	8.04
NNW	-	4.91	2.98	-	-	-	-	-	7.89
NW	-	5.80	4.46	0.74	-	-	-	-	11.01
WNW	-	4.61	4.32	0.74	-	-	-	-	9.67
W	-	0.60	-	-	-	-	-	-	0.60
WSW	-	0.15	-	-	-	-	-	-	0.15
SW	-	-	-	-	-	-	-	-	-
SSW	-	0.15	-	-	-	-	-	-	0.15
S	-	0.60	0.60	-	-	-	-	-	1.19
SSE	-	0.89	2.53	-	-	-	-	-	3.42
SE	-	0.89	1.79	-	-	-	-	-	2.68
ESE	-	2.38	2.08	-	-	-	-	-	4.46
E	-	8.33	5.06	-	-	-	-	-	13.39
Calm	11.76	-	-	-	-	-	-	-	11.76
Total (%)	11.76	58.19	28.57	1.49	-	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 28 days

Start Date: Feb. 01, 2007

End Date: Feb. 28, 2007

NOTES

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**YELLOWKNIFE GOLD PROJECT
2008 HYDROMETEOROLOGICAL REPORT**

**Tyhee Station
Wind Rose
February 2007**

PROJECT NO.
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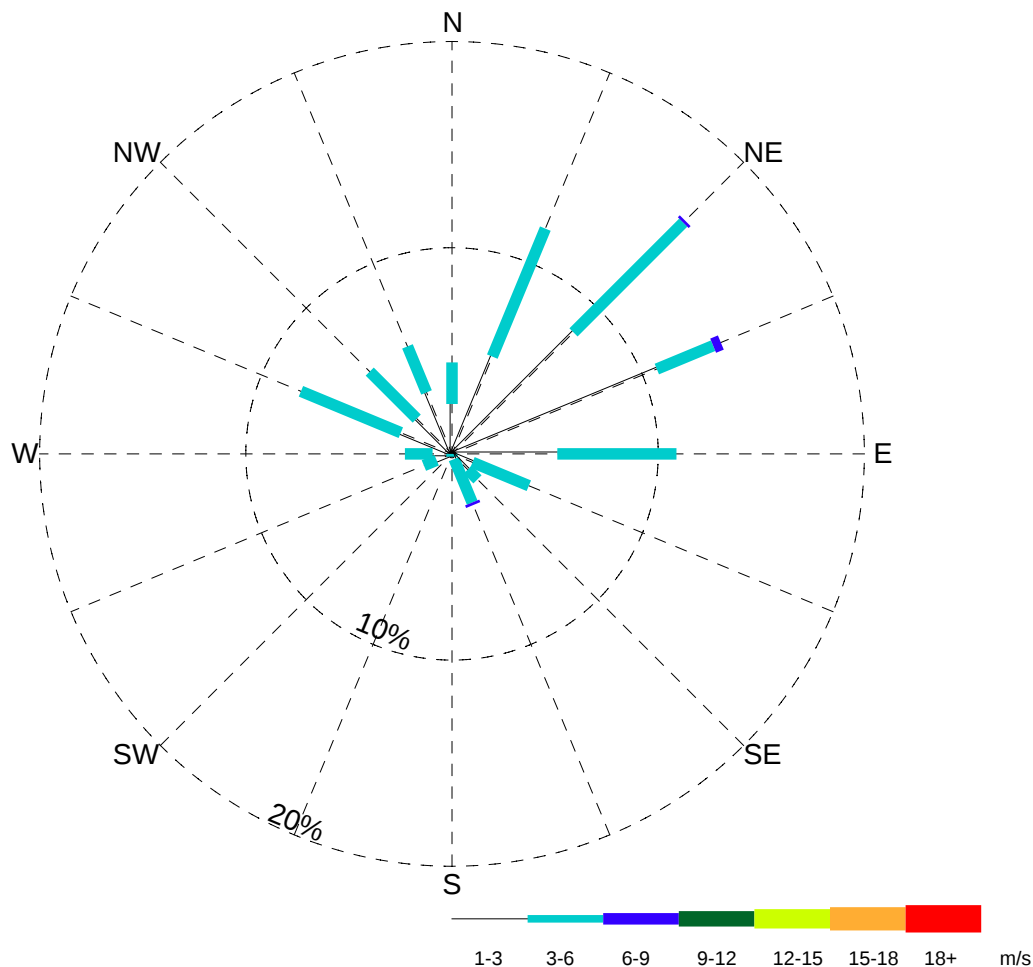
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Figure C-30



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	10.75	2.96	0.40	-	-	-	-	14.11
NE	-	8.33	7.53	0.13	-	-	-	-	15.99
NNE	-	5.11	6.72	-	-	-	-	-	11.83
N	-	2.42	2.02	-	-	-	-	-	4.43
NNW	-	3.23	2.42	-	-	-	-	-	5.64
NW	-	2.42	3.23	-	-	-	-	-	5.64
WNW	-	2.69	5.24	-	-	-	-	-	7.93
W	-	0.94	1.34	-	-	-	-	-	2.29
WSW	-	0.81	0.67	-	-	-	-	-	1.48
SW	-	0.13	-	-	-	-	-	-	0.13
SSW	-	0.13	-	-	-	-	-	-	0.13
S	-	-	0.13	-	-	-	-	-	0.13
SSE	-	0.27	2.29	0.13	-	-	-	-	2.69
SE	-	1.08	0.67	-	-	-	-	-	1.75
ESE	-	1.08	2.96	-	-	-	-	-	4.03
E	-	5.11	5.78	-	-	-	-	-	10.89
Calm	10.89	-	-	-	-	-	-	-	10.89
Total (%)	10.89	44.49	43.95	0.67	-	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 31 days

Start Date: Mar. 01, 2007

End Date: Mar. 31, 2007

NOTES

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**Tyhee Station
Wind Rose
March 2007**

PROJECT NO.
Y22101057

DWN
TM

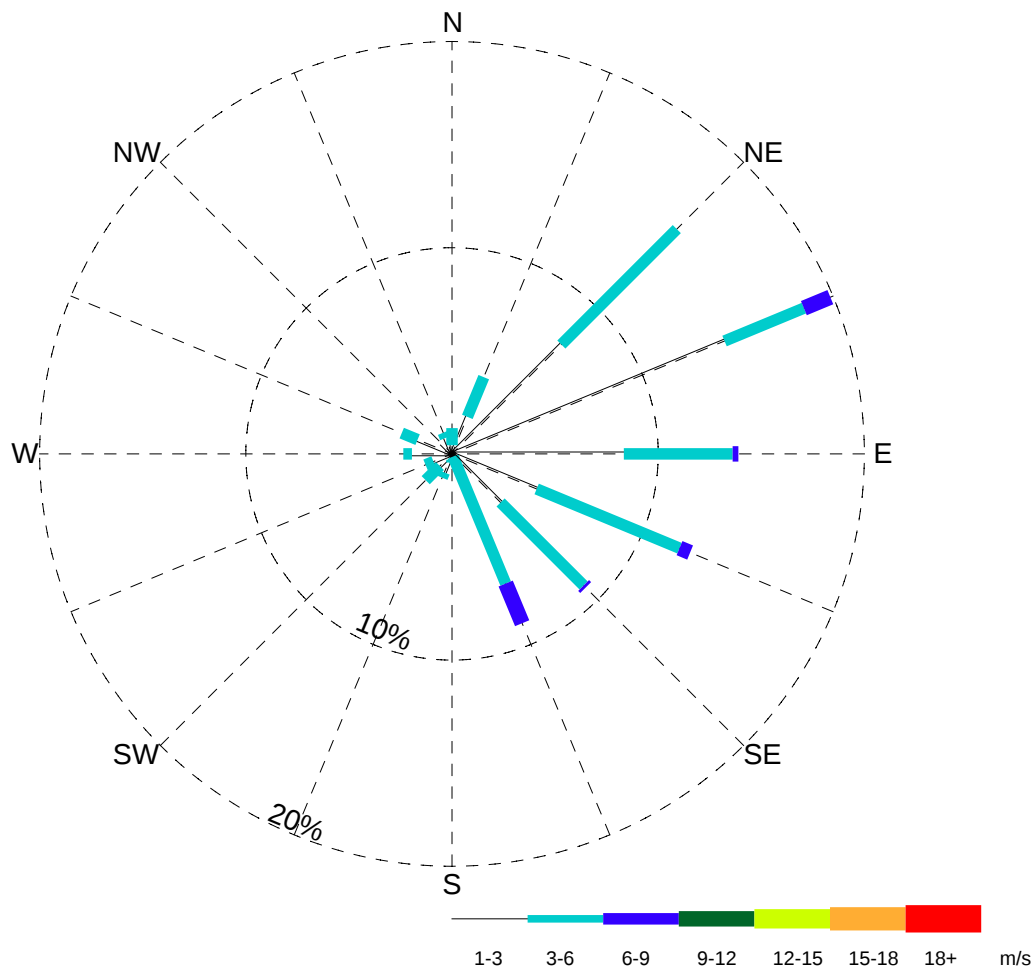
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Figure C-31



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	14.31	4.17	1.39	-	-	-	-	19.86
NE	-	7.50	7.92	-	-	-	-	-	15.42
NNE	-	1.94	2.08	-	-	-	-	-	4.03
N	-	0.42	0.83	-	-	-	-	-	1.25
NNW	-	0.83	0.28	-	-	-	-	-	1.11
NW	-	0.69	-	-	-	-	-	-	0.69
WNW	-	1.81	0.83	-	-	-	-	-	2.64
W	-	1.94	0.42	-	-	-	-	-	2.36
WSW	-	0.97	0.42	-	-	-	-	-	1.39
SW	-	0.83	0.97	-	-	-	-	-	1.81
SSW	-	0.97	0.28	-	-	-	-	-	1.25
S	-	0.28	0.14	-	-	-	-	-	0.42
SSE	-	0.14	6.67	2.08	-	-	-	-	8.89
SE	-	3.33	5.69	0.14	-	-	-	-	9.17
ESE	-	4.44	7.50	0.56	-	-	-	-	12.50
E	-	8.33	5.28	0.28	-	-	-	-	13.89
Calm	3.33	-	-	-	-	-	-	-	3.33
Total (%)	3.33	48.75	43.47	4.44	-	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 30 days

Start Date: Apr. 01, 2007

End Date: Apr. 30, 2007

NOTES

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YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

Tyhee Station
Wind Rose
April 2007

PROJECT NO.
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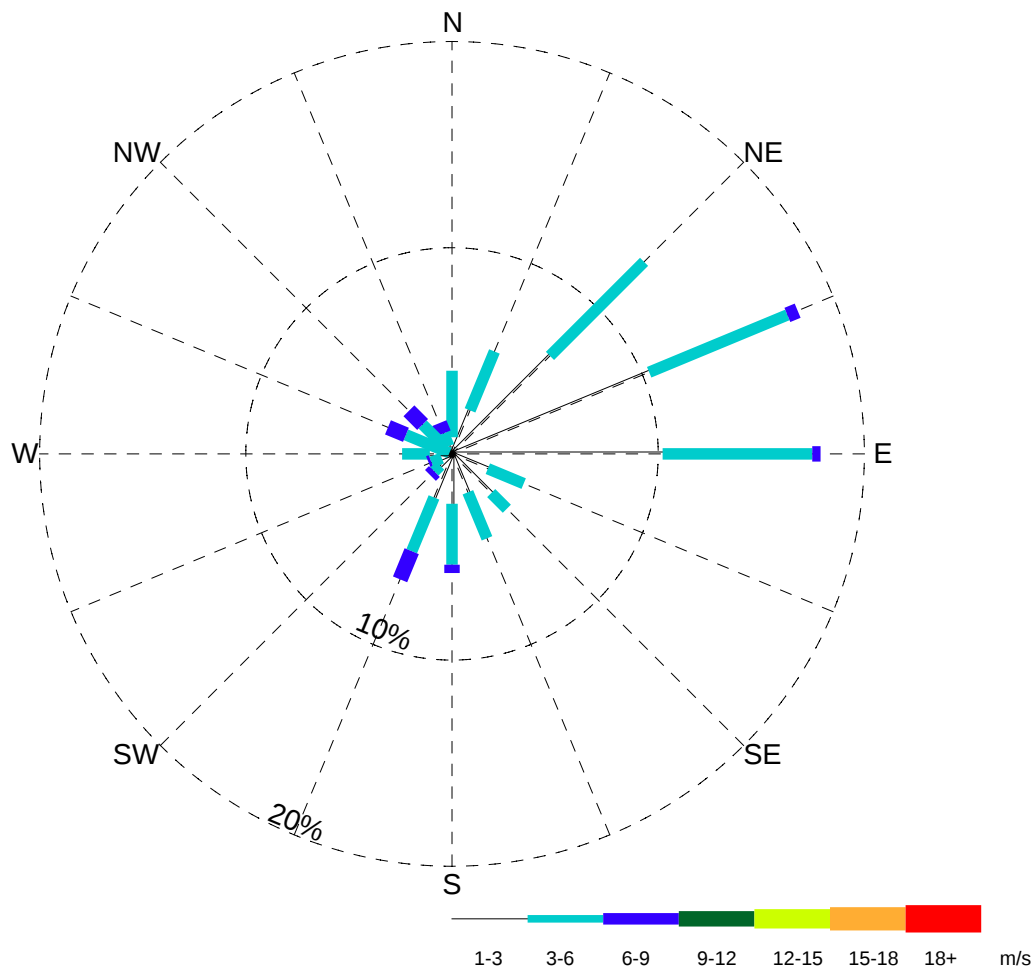
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Figure C-32



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	10.35	7.26	0.54	-	-	-	-	18.15
NE	-	6.72	6.45	-	-	-	-	-	13.17
NNE	-	2.29	3.09	-	-	-	-	-	5.38
N	-	0.81	3.23	-	-	-	-	-	4.03
NNW	-	0.40	0.67	0.54	-	-	-	-	1.61
NW	-	0.40	1.61	0.94	-	-	-	-	2.96
WNW	-	0.13	2.29	0.94	-	-	-	-	3.36
W	-	1.08	1.34	-	-	-	-	-	2.42
WSW	-	0.54	0.54	0.13	-	-	-	-	1.21
SW	-	0.81	0.40	0.27	-	-	-	-	1.48
SSW	-	2.29	2.82	1.48	-	-	-	-	6.59
S	-	2.42	2.96	0.40	-	-	-	-	5.78
SSE	-	2.02	2.42	-	-	-	-	-	4.43
SE	-	2.69	1.08	-	-	-	-	-	3.76
ESE	-	1.88	1.88	-	-	-	-	-	3.76
E	-	10.22	7.26	0.40	-	-	-	-	17.88
Calm	4.03	-	-	-	-	-	-	-	4.03
Total (%)	4.03	45.03	45.30	5.64	-	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 31 days

Start Date: May. 01, 2007

End Date: May. 31, 2007

NOTES

CLIENT



**EBA Engineering
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**Tyhee Station
Wind Rose
May 2007**

PROJECT NO.
Y22101057

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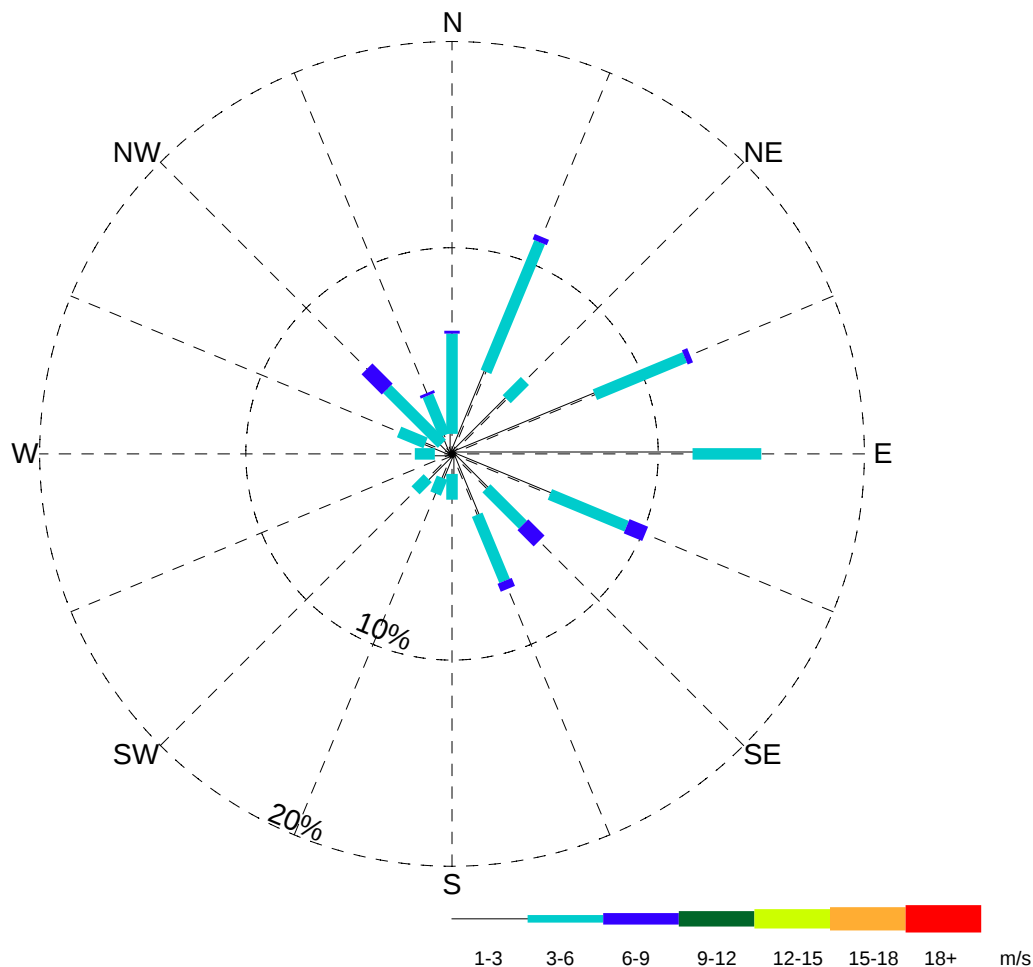
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Figure C-33



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	7.50	4.72	0.28	-	-	-	-	12.50
NE	-	3.75	1.25	-	-	-	-	-	5.00
NNE	-	4.31	6.81	0.28	-	-	-	-	11.39
N	-	0.97	4.86	0.14	-	-	-	-	5.97
NNW	-	0.97	2.08	0.14	-	-	-	-	3.19
NW	-	0.69	3.75	1.39	-	-	-	-	5.83
WNW	-	1.39	1.39	-	-	-	-	-	2.78
W	-	0.83	0.97	-	-	-	-	-	1.81
WSW	-	0.56	-	-	-	-	-	-	0.56
SW	-	1.67	0.83	-	-	-	-	-	2.50
SSW	-	1.25	0.83	-	-	-	-	-	2.08
S	-	0.97	1.25	-	-	-	-	-	2.22
SSE	-	3.19	3.47	0.42	-	-	-	-	7.08
SE	-	2.36	2.50	1.11	-	-	-	-	5.97
ESE	-	5.14	4.03	0.97	-	-	-	-	10.14
E	-	11.67	3.33	-	-	-	-	-	15.00
Calm	5.97	-	-	-	-	-	-	-	5.97
Total (%)	5.97	47.22	42.08	4.72	-	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 30 days

Start Date: June 01, 2007

End Date: June 30, 2007

NOTES

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**Tyhee Station
Wind Rose
June 2007**

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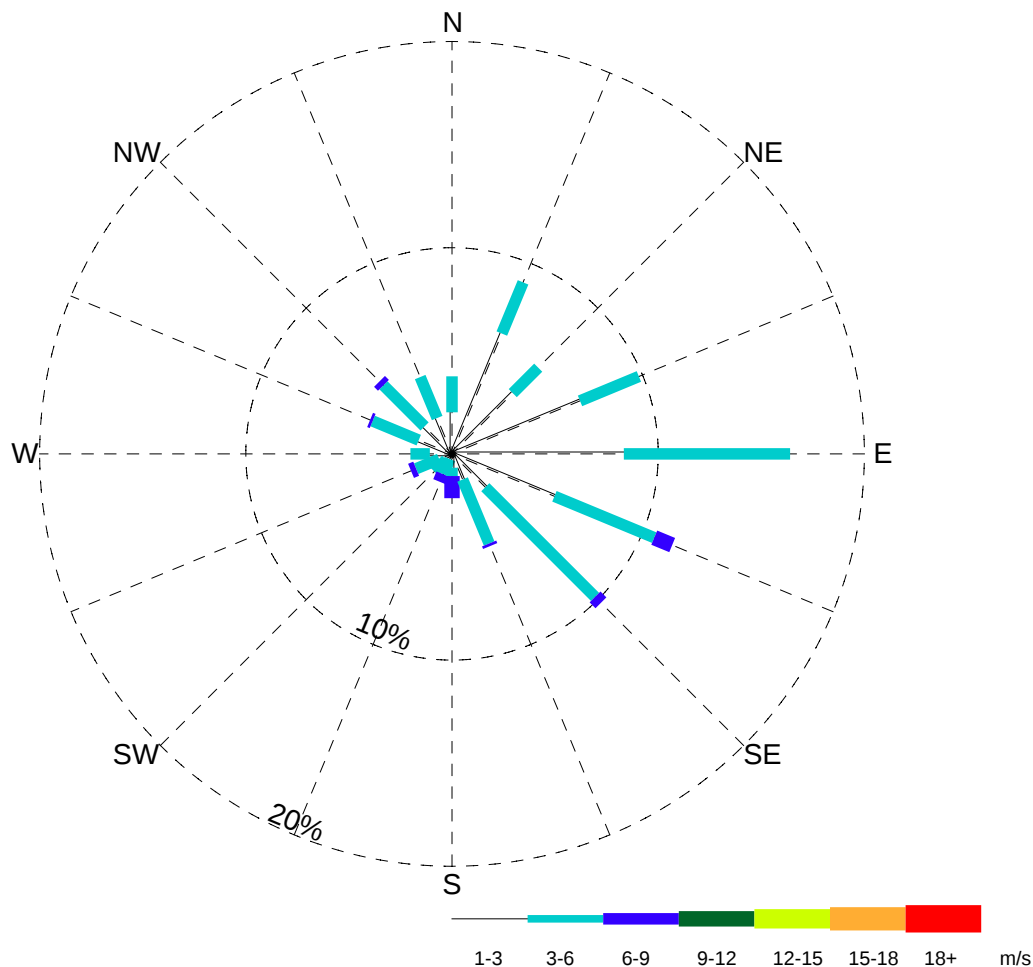
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Figure C-34



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	6.72	3.09	-	-	-	-	-	9.81
NE	-	4.17	1.75	-	-	-	-	-	5.91
NNE	-	6.32	2.69	-	-	-	-	-	9.01
N	-	2.02	1.75	-	-	-	-	-	3.76
NNW	-	1.88	2.15	-	-	-	-	-	4.03
NW	-	1.88	2.82	0.27	-	-	-	-	4.97
WNW	-	1.75	2.42	0.13	-	-	-	-	4.30
W	-	1.08	0.94	-	-	-	-	-	2.02
WSW	-	0.67	1.21	0.27	-	-	-	-	2.15
SW	-	0.40	0.81	-	-	-	-	-	1.21
SSW	-	0.27	0.81	0.40	-	-	-	-	1.48
S	-	0.67	0.40	1.08	-	-	-	-	2.15
SSE	-	1.34	3.36	0.13	-	-	-	-	4.84
SE	-	2.29	7.53	0.40	-	-	-	-	10.22
ESE	-	5.38	5.24	0.94	-	-	-	-	11.56
E	-	8.33	8.06	-	-	-	-	-	16.40
Calm	6.18	-	-	-	-	-	-	-	6.18
Total (%)	6.18	45.16	45.03	3.63	-	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 31 days

Start Date: July 01, 2007

End Date: July 31, 2007

NOTES

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2008 HYDROMETEOROLOGICAL REPORT**

**Tyhee Station
Wind Rose
July 2007**

PROJECT NO.
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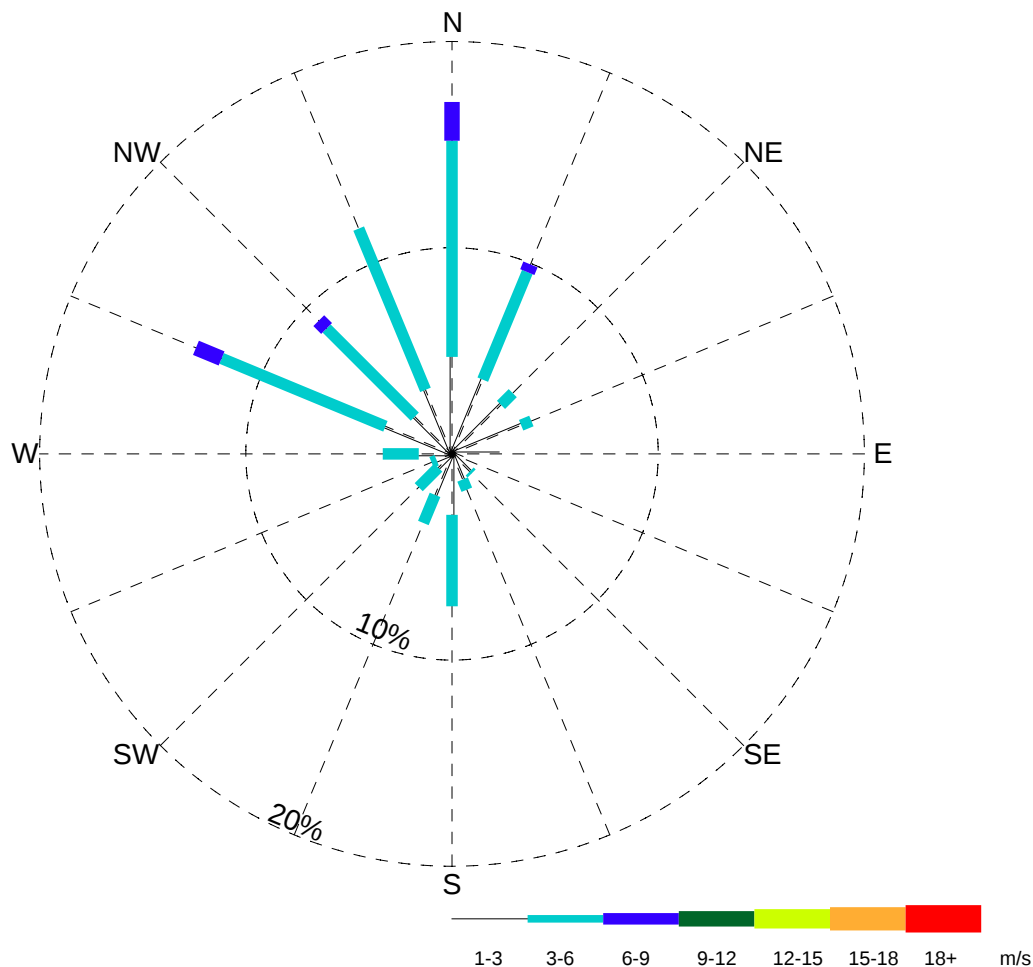
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Figure C-35



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	3.63	0.54	-	-	-	-	-	4.17
NE	-	3.36	0.81	-	-	-	-	-	4.17
NNE	-	3.90	5.64	0.40	-	-	-	-	9.95
N	-	4.70	10.48	1.88	-	-	-	-	17.07
NNW	-	3.36	8.47	-	-	-	-	-	11.83
NW	-	2.55	6.05	0.54	-	-	-	-	9.14
WNW	-	3.49	8.60	1.34	-	-	-	-	13.44
W	-	1.61	1.75	-	-	-	-	-	3.36
WSW	-	0.81	0.27	-	-	-	-	-	1.08
SW	-	0.94	1.34	-	-	-	-	-	2.29
SSW	-	2.15	1.48	-	-	-	-	-	3.63
S	-	2.96	4.43	-	-	-	-	-	7.39
SSE	-	1.34	0.54	-	-	-	-	-	1.88
SE	-	1.21	0.13	-	-	-	-	-	1.34
ESE	-	0.54	-	-	-	-	-	-	0.54
E	-	2.29	-	-	-	-	-	-	2.29
Calm	6.45	-	-	-	-	-	-	-	6.45
Total (%)	6.45	38.84	50.54	4.17	-	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 31 days

Start Date: Aug. 01, 2007

End Date: Aug. 31, 2007

NOTES

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**Tyhee Station
Wind Rose
August 2007**

PROJECT NO.
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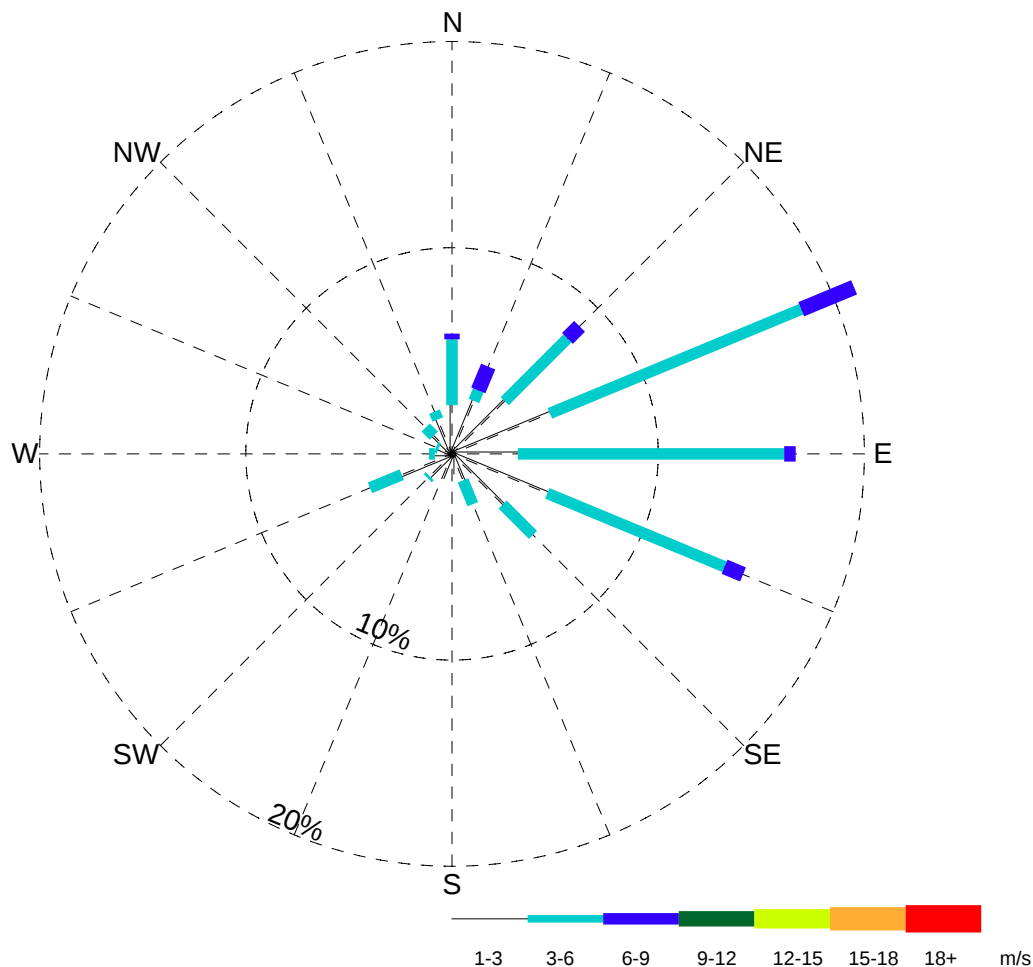
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Figure C-36



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	5.14	13.19	2.78	-	-	-	-	21.11
NE	-	3.61	4.31	0.83	-	-	-	-	8.75
NNE	-	2.78	0.56	1.25	-	-	-	-	4.58
N	-	2.36	3.19	0.28	-	-	-	-	5.83
NNW	-	1.81	0.42	-	-	-	-	-	2.22
NW	-	1.25	0.56	-	-	-	-	-	1.81
WNW	-	0.69	0.14	-	-	-	-	-	0.83
W	-	0.83	0.28	-	-	-	-	-	1.11
WSW	-	2.64	1.67	-	-	-	-	-	4.31
SW	-	1.53	0.14	-	-	-	-	-	1.67
SSW	-	1.25	-	-	-	-	-	-	1.25
S	-	0.97	-	-	-	-	-	-	0.97
SSE	-	1.39	1.25	-	-	-	-	-	2.64
SE	-	3.47	2.08	-	-	-	-	-	5.56
ESE	-	5.00	9.31	0.97	-	-	-	-	15.28
E	-	3.19	12.92	0.56	-	-	-	-	16.67
Calm	5.42	-	-	-	-	-	-	-	5.42
Total (%)	5.42	37.92	50.00	6.67	-	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 30 days

Start Date: Sep. 01, 2007

End Date: Sep. 30, 2007

NOTES

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**Tyhee Station
Wind Rose
September 2007**

PROJECT NO.
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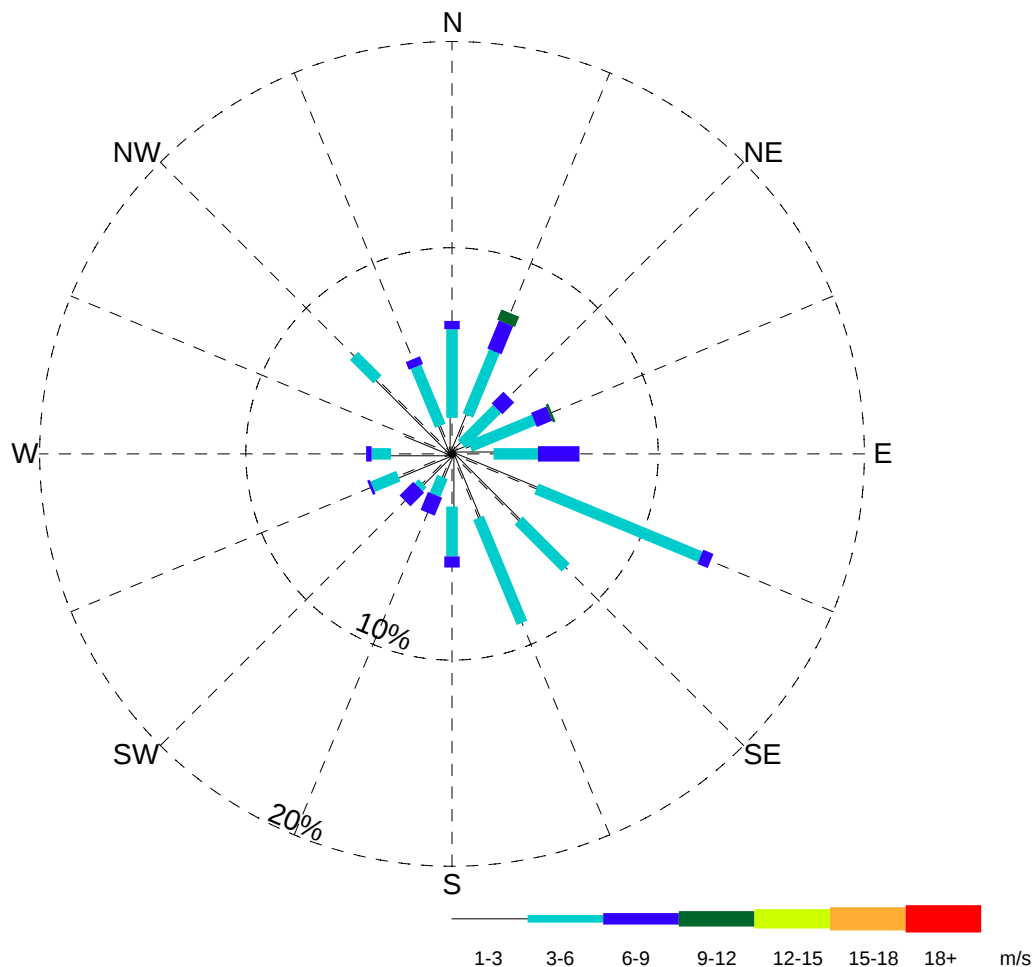
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Figure C-37



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	0.94	3.36	0.81	0.13	-	-	-	5.24
NE	-	0.67	2.42	0.81	-	-	-	-	3.90
NNE	-	2.02	3.36	1.48	0.54	-	-	-	7.39
N	-	1.75	4.30	0.40	-	-	-	-	6.45
NNW	-	1.48	3.09	0.40	-	-	-	-	4.97
NW	-	5.11	1.61	-	-	-	-	-	6.72
WNW	-	2.42	-	-	-	-	-	-	2.42
W	-	2.96	0.94	0.27	-	-	-	-	4.17
WSW	-	2.82	1.34	0.13	-	-	-	-	4.30
SW	-	2.02	0.27	0.94	-	-	-	-	3.23
SSW	-	1.21	0.94	0.94	-	-	-	-	3.09
S	-	2.55	2.42	0.54	-	-	-	-	5.51
SSE	-	3.36	5.51	-	-	-	-	-	8.87
SE	-	4.57	3.23	-	-	-	-	-	7.80
ESE	-	4.43	8.60	0.54	-	-	-	-	13.57
E	-	2.02	2.15	2.02	-	-	-	-	6.18
Calm	6.18	-	-	-	-	-	-	-	6.18
Total (%)	6.18	40.32	43.55	9.27	0.67	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 31 days

Start Date: Oct. 01, 2007

End Date: Oct. 31, 2007

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**Tyhee Station
Wind Rose
October 2007**

PROJECT NO.
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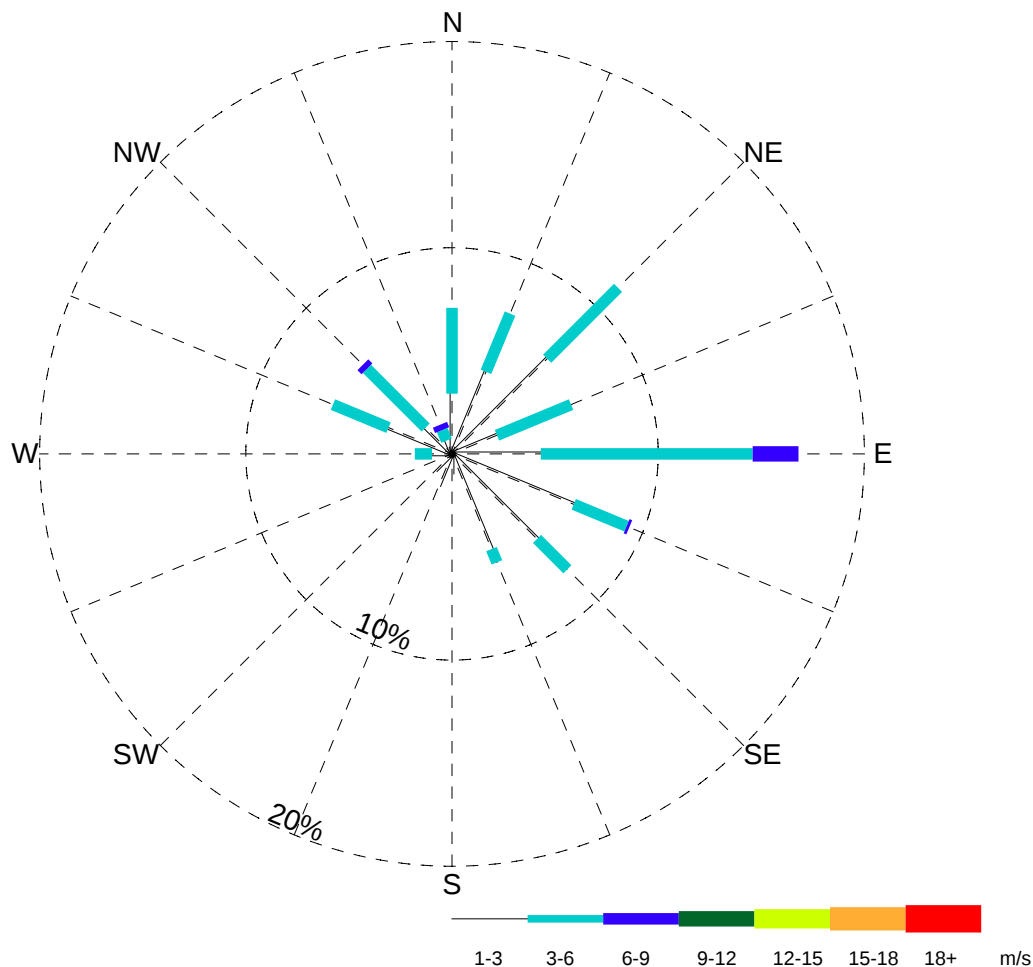
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Figure C-38



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	2.36	3.89	-	-	-	-	-	6.25
NE	-	6.53	4.86	-	-	-	-	-	11.39
NNE	-	4.31	3.06	-	-	-	-	-	7.36
N	-	2.92	4.17	-	-	-	-	-	7.08
NNW	-	0.69	0.56	0.28	-	-	-	-	1.53
NW	-	1.81	4.03	0.28	-	-	-	-	6.11
WNW	-	3.33	2.92	-	-	-	-	-	6.25
W	-	0.97	0.83	-	-	-	-	-	1.81
WSW	-	0.28	-	-	-	-	-	-	0.28
SW	-	1.11	-	-	-	-	-	-	1.11
SSW	-	1.67	-	-	-	-	-	-	1.67
S	-	0.97	-	-	-	-	-	-	0.97
SSE	-	5.00	0.69	-	-	-	-	-	5.69
SE	-	5.83	2.08	-	-	-	-	-	7.92
ESE	-	6.39	2.78	0.14	-	-	-	-	9.31
E	-	4.31	10.28	2.22	-	-	-	-	16.81
Calm	8.47	-	-	-	-	-	-	-	8.47
Total (%)	8.47	48.47	40.14	2.92	-	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 30 days

Start Date: Nov. 01, 2007

End Date: Nov. 30, 2007

NOTES

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**Tyhee Station
Wind Rose
November 2007**

PROJECT NO.
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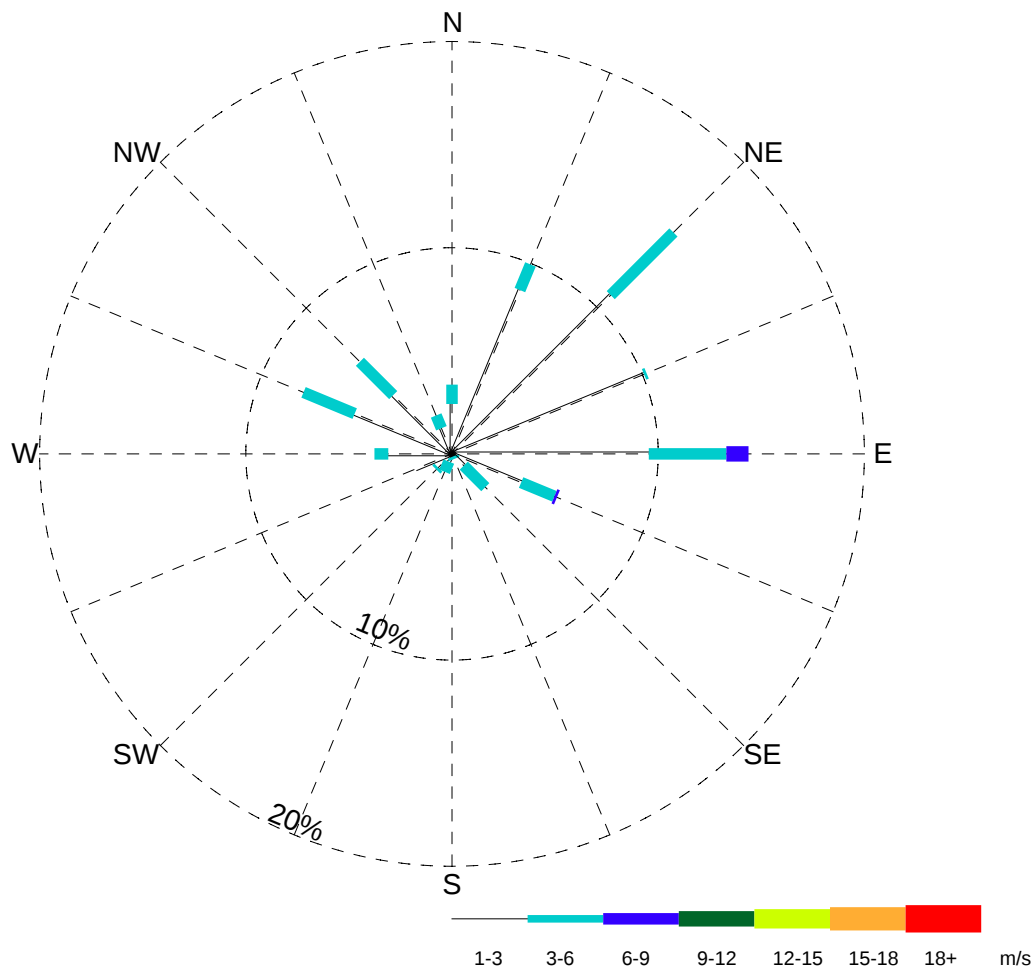
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Figure C-39



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	10.08	0.13	-	-	-	-	-	10.22
NE	-	10.89	4.30	-	-	-	-	-	15.19
NNE	-	8.60	1.34	-	-	-	-	-	9.95
N	-	2.42	0.94	-	-	-	-	-	3.36
NNW	-	1.34	0.67	-	-	-	-	-	2.02
NW	-	4.03	2.29	-	-	-	-	-	6.32
WNW	-	5.11	2.69	-	-	-	-	-	7.80
W	-	3.09	0.67	-	-	-	-	-	3.76
WSW	-	1.88	-	-	-	-	-	-	1.88
SW	-	0.94	0.13	-	-	-	-	-	1.08
SSW	-	0.40	0.54	-	-	-	-	-	0.94
S	-	0.13	-	-	-	-	-	-	0.13
SSE	-	0.13	0.13	-	-	-	-	-	0.27
SE	-	0.81	1.48	-	-	-	-	-	2.29
ESE	-	3.63	1.75	0.13	-	-	-	-	5.51
E	-	9.54	3.76	1.08	-	-	-	-	14.38
Calm	14.92	-	-	-	-	-	-	-	14.92
Total (%)	14.92	63.04	20.83	1.21	-	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 31 days

Start Date: Dec. 01, 2007

End Date: Dec. 31, 2007

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**Tyhee Station
Wind Rose
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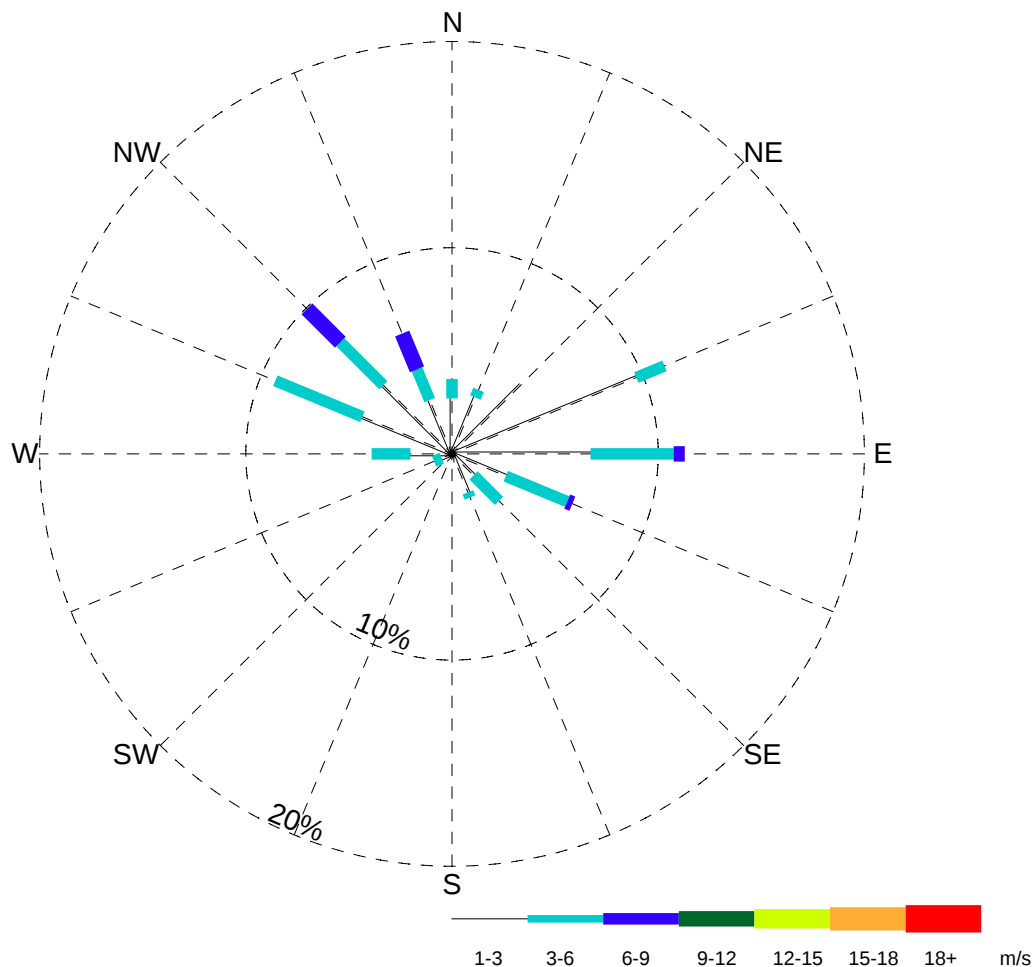
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Figure C-40



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	9.68	1.48	-	-	-	-	-	11.16
NE	-	4.70	-	-	-	-	-	-	4.70
NNE	-	2.96	0.40	-	-	-	-	-	3.36
N	-	2.69	0.94	-	-	-	-	-	3.63
NNW	-	2.82	1.61	1.88	-	-	-	-	6.32
NW	-	4.70	2.96	2.29	-	-	-	-	9.95
WNW	-	4.70	4.57	-	-	-	-	-	9.27
W	-	2.02	1.88	-	-	-	-	-	3.90
WSW	-	0.54	0.40	-	-	-	-	-	0.94
SW	-	0.40	-	-	-	-	-	-	0.40
SSW	-	0.27	-	-	-	-	-	-	0.27
S	-	0.40	-	-	-	-	-	-	0.40
SSE	-	2.02	0.27	-	-	-	-	-	2.29
SE	-	1.48	1.75	-	-	-	-	-	3.23
ESE	-	2.82	3.23	0.27	-	-	-	-	6.32
E	-	6.72	4.03	0.54	-	-	-	-	11.29
Calm	22.58	-	-	-	-	-	-	-	22.58
Total (%)	22.58	48.92	23.52	4.97	-	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 31 days

Start Date: Jan. 01, 2008

End Date: Jan. 31, 2008

NOTES

CLIENT



EBA Engineering Consultants Ltd. 

**YELLOWKNIFE GOLD PROJECT
2008 HYDROMETEOROLOGICAL REPORT**

**Tyhee Station
Wind Rose
January 2008**

PROJECT NO.

Y22101057

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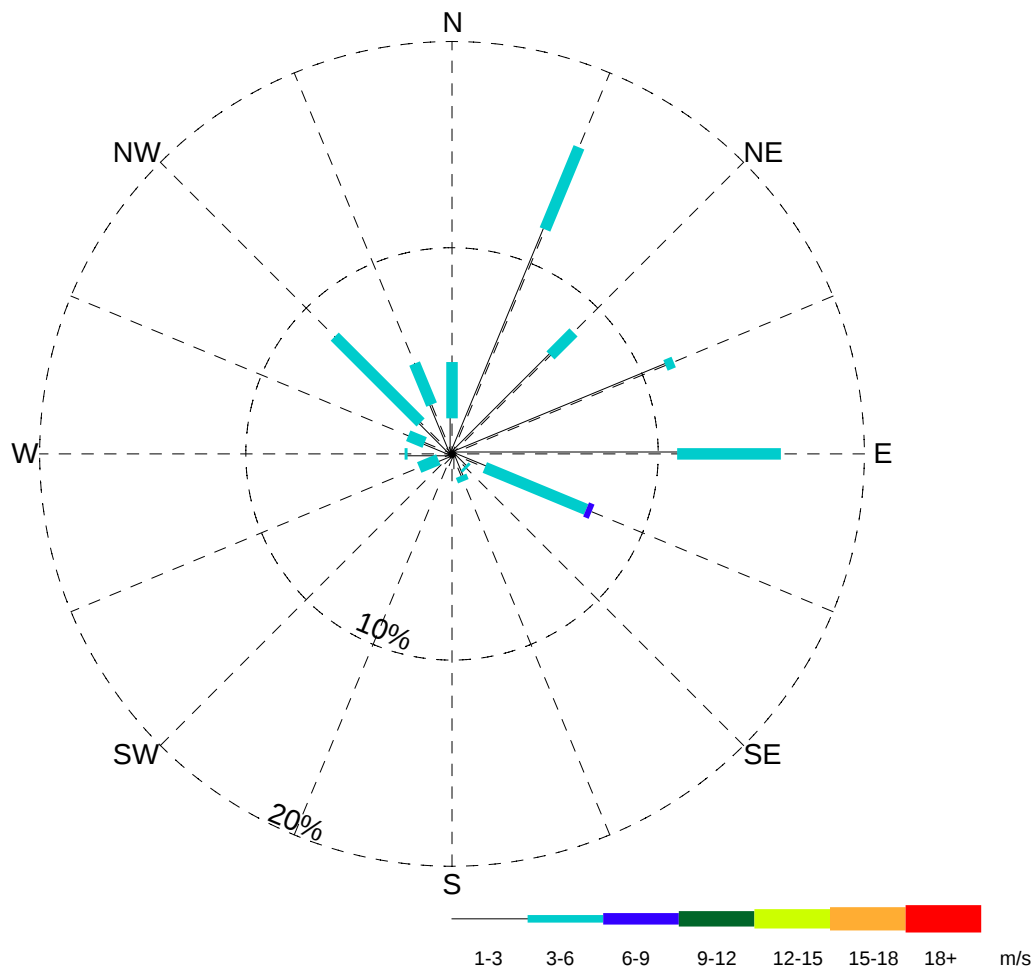
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Figure C-41



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	11.21	0.43	-	-	-	-	-	11.64
NE	-	6.75	1.58	-	-	-	-	-	8.33
NNE	-	11.78	4.31	-	-	-	-	-	16.09
N	-	1.72	2.73	-	-	-	-	-	4.45
NNW	-	2.59	2.15	-	-	-	-	-	4.74
NW	-	2.15	5.89	-	-	-	-	-	8.05
WNW	-	1.44	0.86	-	-	-	-	-	2.30
W	-	2.15	0.14	-	-	-	-	-	2.30
WSW	-	0.72	1.01	-	-	-	-	-	1.72
SW	-	0.57	-	-	-	-	-	-	0.57
SSW	-	0.57	-	-	-	-	-	-	0.57
S	-	0.72	-	-	-	-	-	-	0.72
SSE	-	1.15	0.29	-	-	-	-	-	1.44
SE	-	0.86	0.14	-	-	-	-	-	1.01
ESE	-	1.72	5.32	0.29	-	-	-	-	7.33
E	-	10.92	5.03	-	-	-	-	-	15.95
Calm	12.79	-	-	-	-	-	-	-	12.79
Total (%)	12.79	57.04	29.89	0.29	-	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 29 days

Start Date: Feb. 01, 2008

End Date: Feb. 29, 2008

NOTES

CLIENT



EBA Engineering Consultants Ltd. 

**YELLOWKNIFE GOLD PROJECT
2008 HYDROMETEOROLOGICAL REPORT**

**Tyhee Station
Wind Rose
February 2008**

PROJECT NO.
Y22101057

DWN
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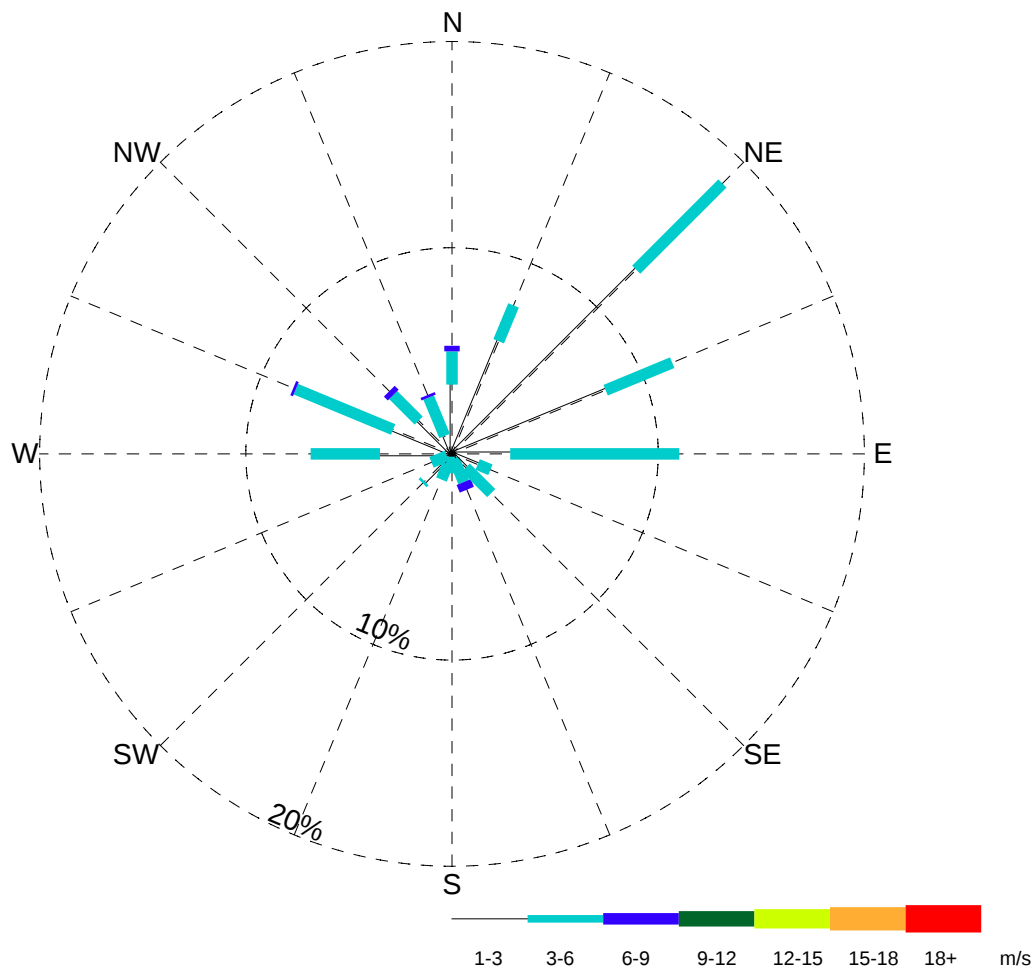
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Figure C-42



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	8.06	3.49	-	-	-	-	-	11.56
NE	-	12.63	5.91	-	-	-	-	-	18.55
NNE	-	5.91	1.88	-	-	-	-	-	7.80
N	-	3.36	1.61	0.27	-	-	-	-	5.24
NNW	-	0.94	2.02	0.13	-	-	-	-	3.09
NW	-	2.29	1.75	0.27	-	-	-	-	4.30
WNW	-	3.09	5.11	0.13	-	-	-	-	8.33
W	-	3.49	3.36	-	-	-	-	-	6.86
WSW	-	0.27	0.81	-	-	-	-	-	1.08
SW	-	1.88	0.13	-	-	-	-	-	2.02
SSW	-	0.54	0.81	-	-	-	-	-	1.34
S	-	0.13	0.81	-	-	-	-	-	0.94
SSE	-	0.27	1.21	0.40	-	-	-	-	1.88
SE	-	0.94	1.75	-	-	-	-	-	2.69
ESE	-	1.34	0.67	-	-	-	-	-	2.02
E	-	2.82	8.20	-	-	-	-	-	11.02
Calm	11.29	-	-	-	-	-	-	-	11.29
Total (%)	11.29	47.98	39.52	1.21	-	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 31 days

Start Date: Mar. 01, 2008

End Date: Mar. 31, 2008

NOTES

CLIENT



EBA Engineering Consultants Ltd. 

**YELLOWKNIFE GOLD PROJECT
2008 HYDROMETEOROLOGICAL REPORT**

**Tyhee Station
Wind Rose
March 2008**

PROJECT NO.
Y22101057

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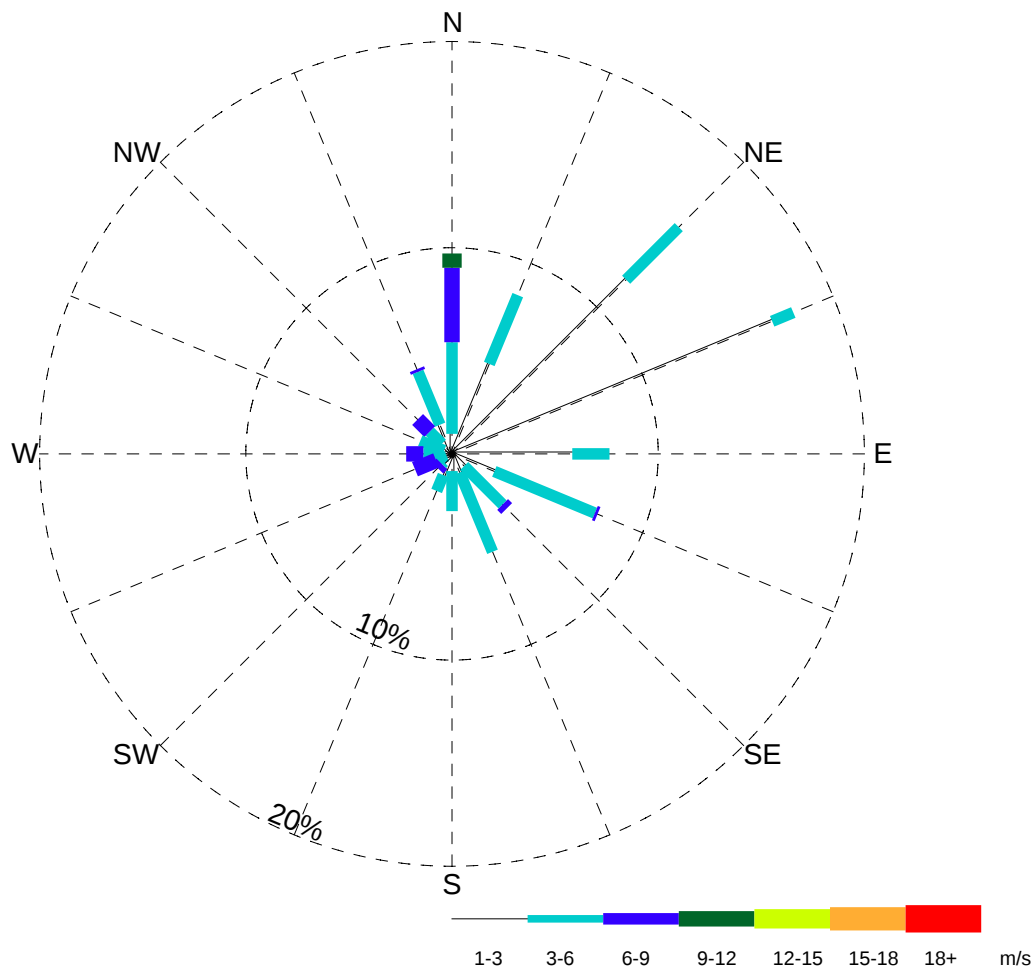
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Figure C-43



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	16.81	1.11	-	-	-	-	-	17.92
NE	-	11.94	3.61	-	-	-	-	-	15.56
NNE	-	4.72	3.61	-	-	-	-	-	8.33
N	-	0.97	4.44	3.61	0.69	-	-	-	9.72
NNW	-	1.53	2.78	0.14	-	-	-	-	4.44
NW	-	0.69	0.83	0.83	-	-	-	-	2.36
WNW	-	0.42	1.25	-	-	-	-	-	1.67
W	-	0.56	0.83	0.83	-	-	-	-	2.22
WSW	-	0.28	0.56	1.11	-	-	-	-	1.94
SW	-	0.56	0.14	0.28	-	-	-	-	0.97
SSW	-	1.11	0.83	-	-	-	-	-	1.94
S	-	0.83	1.94	-	-	-	-	-	2.78
SSE	-	0.97	4.17	-	-	-	-	-	5.14
SE	-	0.83	2.64	0.28	-	-	-	-	3.75
ESE	-	2.22	5.28	0.14	-	-	-	-	7.64
E	-	5.83	1.81	-	-	-	-	-	7.64
Calm	5.97	-	-	-	-	-	-	-	5.97
Total (%)	5.97	50.28	35.83	7.22	0.69	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 30 days

Start Date: Apr. 01, 2008

End Date: Apr. 30, 2008

NOTES

CLIENT



EBA Engineering Consultants Ltd. 

**YELLOWKNIFE GOLD PROJECT
2008 HYDROMETEOROLOGICAL REPORT**

**Tyhee Station
Wind Rose
April 2008**

PROJECT NO.
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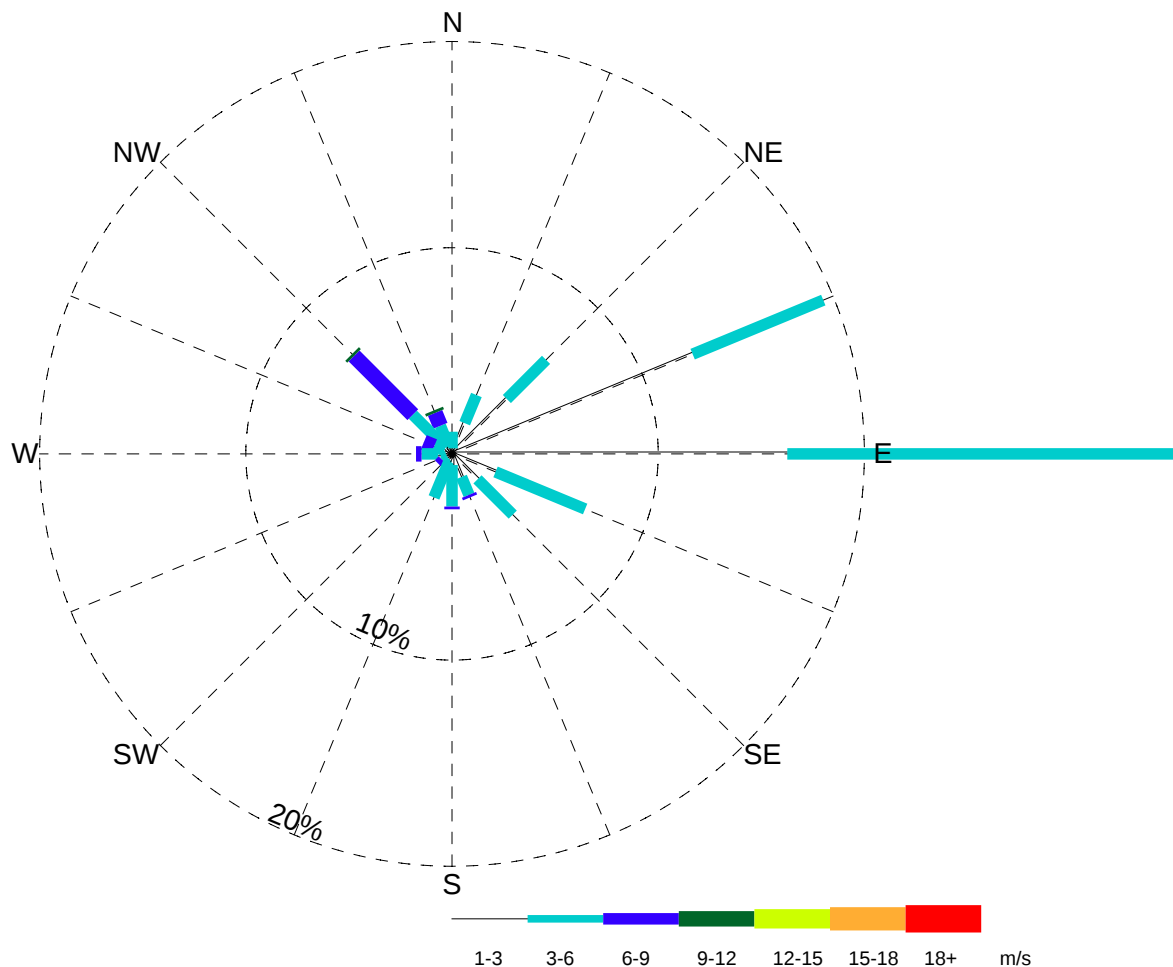
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Figure C-44



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	12.63	6.86	-	-	-	-	-	19.49
NE	-	3.76	2.69	-	-	-	-	-	6.45
NNE	-	1.61	1.48	-	-	-	-	-	3.09
N	-	0.27	0.81	-	-	-	-	-	1.08
NNW	-	0.40	1.08	0.67	0.13	-	-	-	2.29
NW	-	0.67	2.02	4.03	0.13	-	-	-	6.86
WNW	-	0.40	0.54	0.54	-	-	-	-	1.48
W	-	0.67	0.81	0.27	-	-	-	-	1.75
WSW	-	0.27	0.27	-	-	-	-	-	0.54
SW	-	0.27	0.27	0.27	-	-	-	-	0.81
SSW	-	0.40	1.88	-	-	-	-	-	2.29
S	-	0.54	2.02	0.13	-	-	-	-	2.69
SSE	-	1.21	0.94	0.13	-	-	-	-	2.29
SE	-	1.75	2.42	-	-	-	-	-	4.17
ESE	-	2.29	4.70	-	-	-	-	-	6.99
E	-	16.26	19.09	-	-	-	-	-	35.35
Calm	2.42	-	-	-	-	-	-	-	2.42
Total (%)	2.42	43.41	47.85	6.05	0.27	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 31 days

Start Date: May. 01, 2008

End Date: May. 31, 2008

NOTES

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YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Rose
May 2008**

PROJECT NO.
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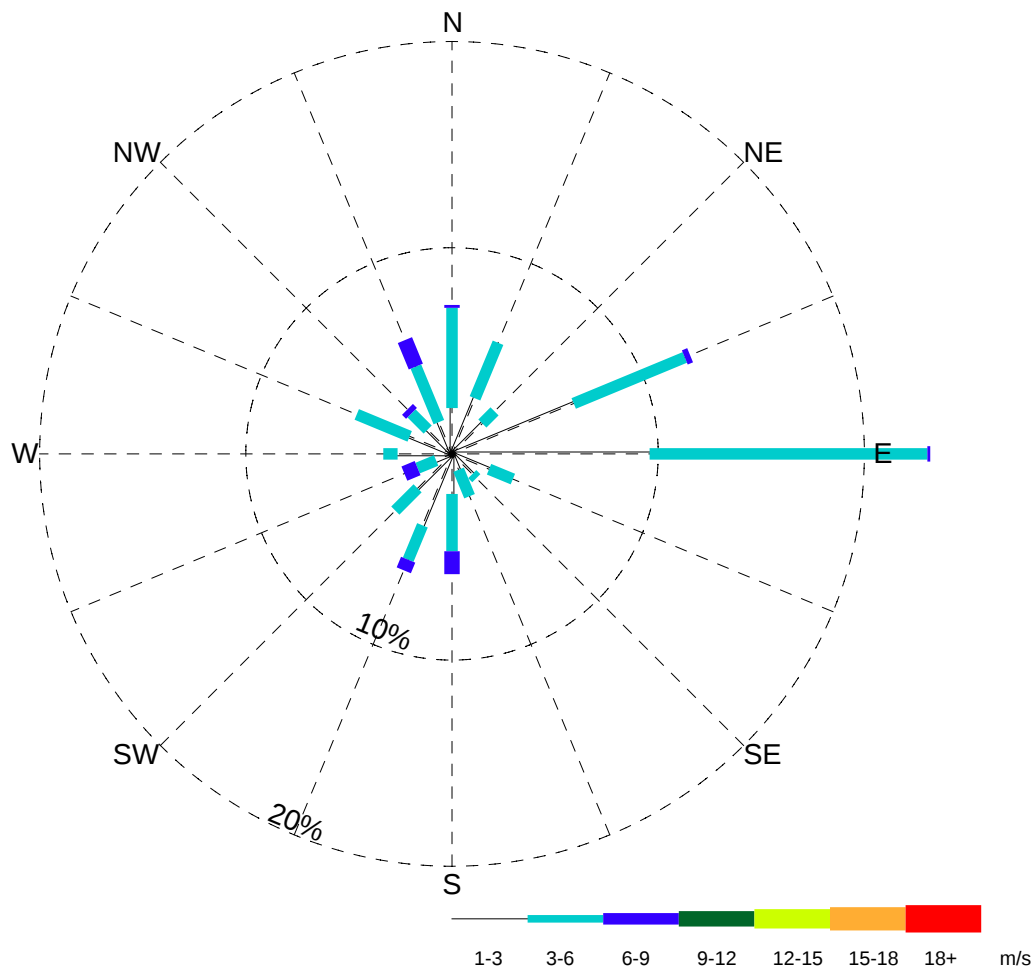
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Figure C-45



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	6.39	5.83	0.28	-	-	-	-	12.50
NE	-	2.08	0.83	-	-	-	-	-	2.92
NNE	-	2.92	2.92	-	-	-	-	-	5.83
N	-	2.22	4.86	0.14	-	-	-	-	7.22
NNW	-	1.67	2.92	1.39	-	-	-	-	5.97
NW	-	1.67	1.11	0.28	-	-	-	-	3.06
WNW	-	2.22	2.78	-	-	-	-	-	5.00
W	-	2.64	0.69	-	-	-	-	-	3.33
WSW	-	0.83	0.97	0.69	-	-	-	-	2.50
SW	-	2.36	1.53	-	-	-	-	-	3.89
SSW	-	3.75	1.81	0.56	-	-	-	-	6.11
S	-	1.94	2.78	1.11	-	-	-	-	5.83
SSE	-	0.83	1.39	-	-	-	-	-	2.22
SE	-	1.39	0.28	-	-	-	-	-	1.67
ESE	-	1.94	1.25	-	-	-	-	-	3.19
E	-	9.58	13.47	0.14	-	-	-	-	23.19
Calm	5.56	-	-	-	-	-	-	-	5.56
Total (%)	5.56	44.44	45.42	4.58	-	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 30 days

Start Date: June 01, 2008

End Date: June 30, 2008

NOTES

CLIENT



EBA Engineering Consultants Ltd. 

**YELLOWKNIFE GOLD PROJECT
2008 HYDROMETEOROLOGICAL REPORT**

**Tyhee Station
Wind Rose
June 2008**

PROJECT NO.
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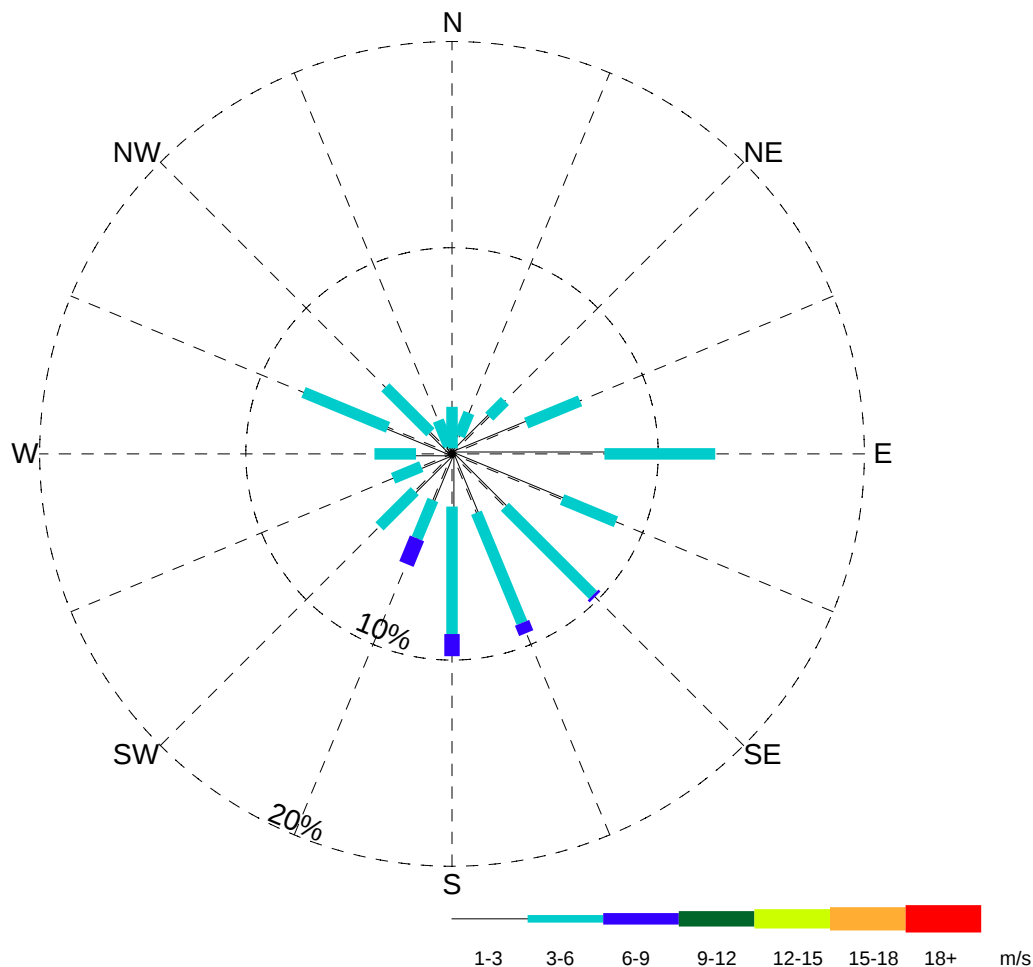
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Figure C-46



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	3.90	2.82	-	-	-	-	-	6.72
NE	-	2.55	1.08	-	-	-	-	-	3.63
NNE	-	0.94	1.21	-	-	-	-	-	2.15
N	-	0.27	2.02	-	-	-	-	-	2.29
NNW	-	0.40	1.34	-	-	-	-	-	1.75
NW	-	1.48	3.09	-	-	-	-	-	4.57
WNW	-	3.36	4.43	-	-	-	-	-	7.80
W	-	1.75	2.02	-	-	-	-	-	3.76
WSW	-	1.61	1.48	-	-	-	-	-	3.09
SW	-	2.55	2.42	-	-	-	-	-	4.97
SSW	-	2.42	2.02	1.34	-	-	-	-	5.78
S	-	2.55	6.18	1.08	-	-	-	-	9.81
SSE	-	3.09	5.78	0.54	-	-	-	-	9.41
SE	-	3.63	6.05	0.13	-	-	-	-	9.81
ESE	-	5.78	2.82	-	-	-	-	-	8.60
E	-	7.39	5.38	-	-	-	-	-	12.77
Calm	3.09	-	-	-	-	-	-	-	3.09
Total (%)	3.09	43.68	50.13	3.09	-	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 31 days

Start Date: July 01, 2008

End Date: July 31, 2008

NOTES

CLIENT



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YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Rose
July 2008**

PROJECT NO.
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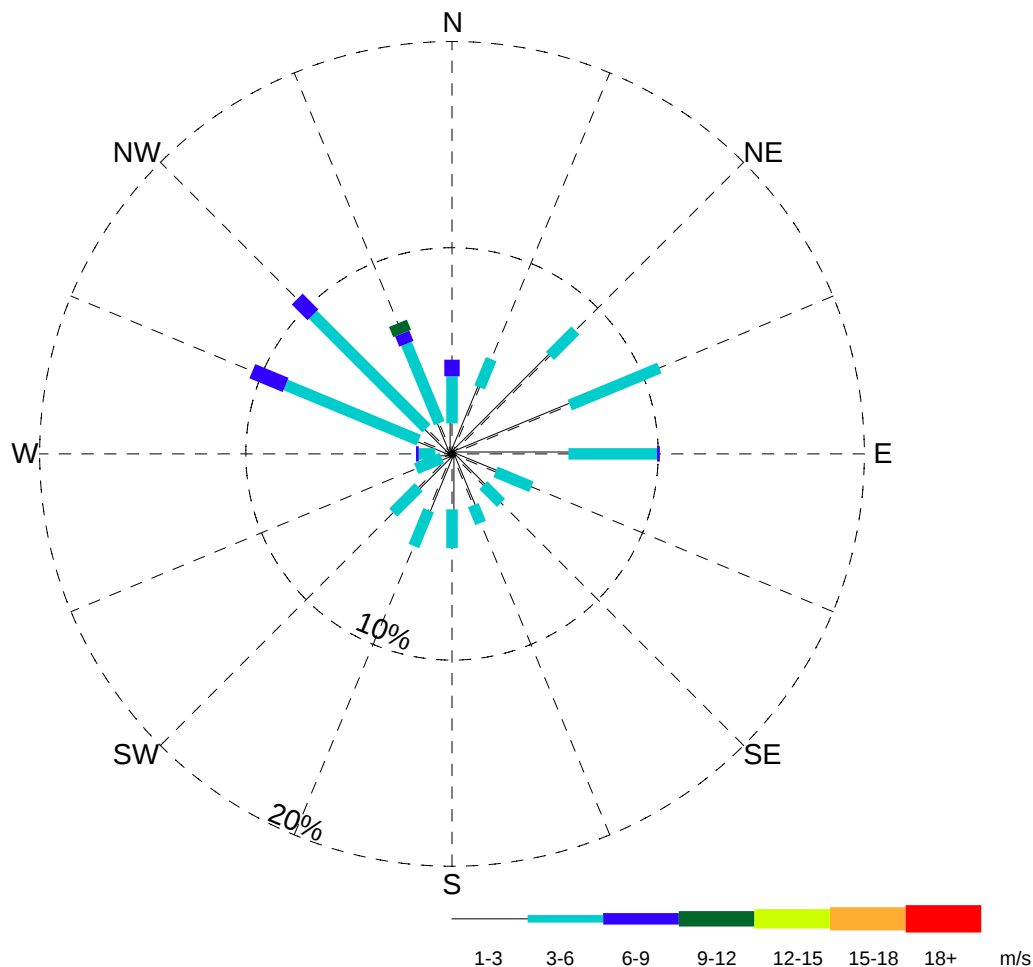
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Figure C-47



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	6.18	4.70	-	-	-	-	-	10.89
NE	-	6.72	1.75	-	-	-	-	-	8.47
NNE	-	3.49	1.48	-	-	-	-	-	4.97
N	-	1.48	2.29	0.81	-	-	-	-	4.57
NNW	-	1.61	4.17	0.54	0.54	-	-	-	6.86
NW	-	1.75	7.80	1.08	-	-	-	-	10.62
WNW	-	1.75	6.99	1.75	-	-	-	-	10.48
W	-	0.81	0.81	0.13	-	-	-	-	1.75
WSW	-	0.54	1.34	-	-	-	-	-	1.88
SW	-	2.29	1.75	-	-	-	-	-	4.03
SSW	-	2.96	1.88	-	-	-	-	-	4.84
S	-	2.69	1.88	-	-	-	-	-	4.57
SSE	-	2.69	0.94	-	-	-	-	-	3.63
SE	-	2.15	1.21	-	-	-	-	-	3.36
ESE	-	2.29	1.88	-	-	-	-	-	4.17
E	-	5.64	4.30	0.13	-	-	-	-	10.08
Calm	4.84	-	-	-	-	-	-	-	4.84
Total (%)	4.84	45.03	45.16	4.43	0.54	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 31 days

Start Date: Aug. 01, 2008

End Date: Aug. 31, 2008

NOTES

CLIENT



**EBA Engineering
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**YELLOWKNIFE GOLD PROJECT
2008 HYDROMETEOROLOGICAL REPORT**

**Tyhee Station
Wind Rose
August 2008**

PROJECT NO.
Y22101057

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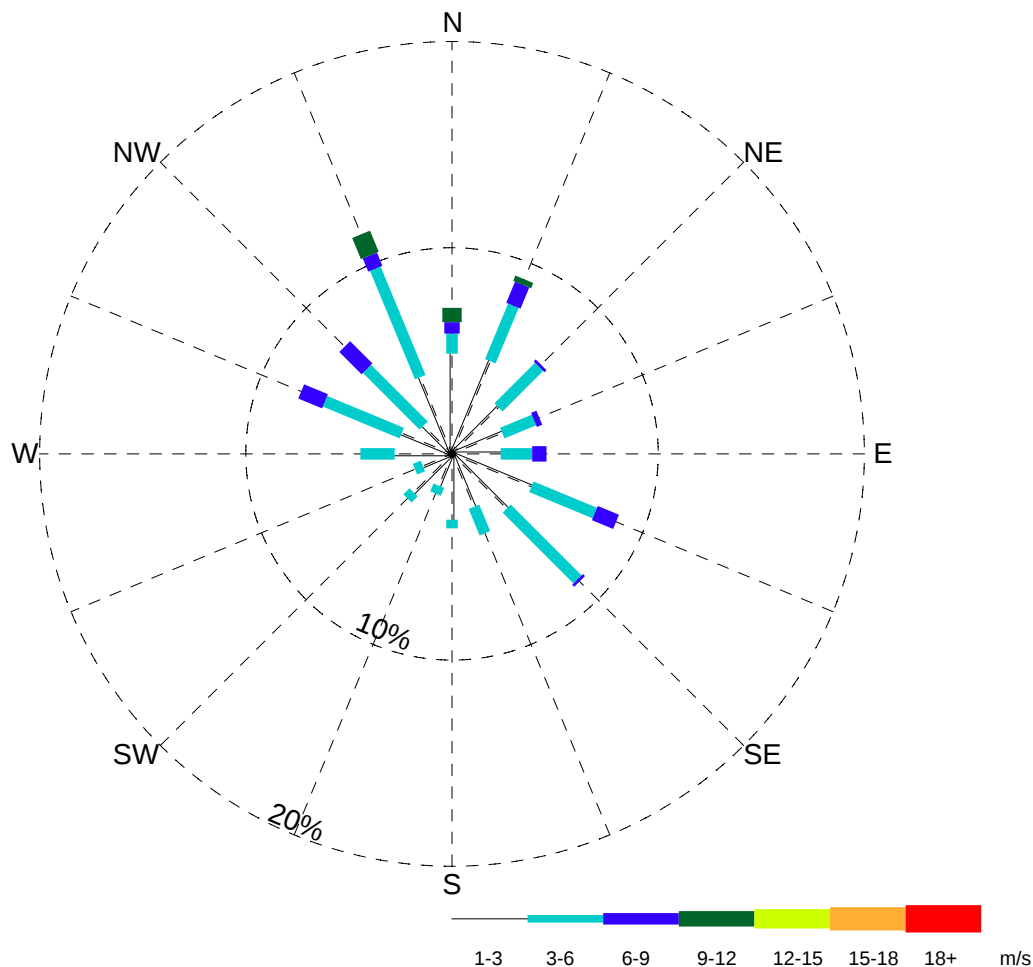
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Figure C-48



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	2.64	1.67	0.28	-	-	-	-	4.58
NE	-	3.19	2.78	0.14	-	-	-	-	6.11
NNE	-	4.86	2.92	1.11	0.28	-	-	-	9.17
N	-	4.86	0.97	0.56	0.69	-	-	-	7.08
NNW	-	4.03	5.69	0.69	1.11	-	-	-	11.53
NW	-	1.94	3.89	1.53	-	-	-	-	7.36
WNW	-	2.64	4.03	1.25	-	-	-	-	7.92
W	-	2.78	1.67	-	-	-	-	-	4.44
WSW	-	1.53	0.42	-	-	-	-	-	1.94
SW	-	2.64	0.42	-	-	-	-	-	3.06
SSW	-	1.67	0.42	-	-	-	-	-	2.08
S	-	3.19	0.42	-	-	-	-	-	3.61
SSE	-	2.78	1.39	-	-	-	-	-	4.17
SE	-	3.75	4.86	0.14	-	-	-	-	8.75
ESE	-	4.17	3.33	1.11	-	-	-	-	8.61
E	-	2.36	1.53	0.69	-	-	-	-	4.58
Calm	5.00	-	-	-	-	-	-	-	5.00
Total (%)	5.00	49.03	36.39	7.50	2.08	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 30 days

Start Date: Sep. 01, 2008

End Date: Sep. 30, 2008

NOTES

CLIENT



EBA Engineering Consultants Ltd. 

**YELLOWKNIFE GOLD PROJECT
2008 HYDROMETEOROLOGICAL REPORT**

**Tyhee Station
Wind Rose
September 2008**

PROJECT NO.
Y22101057

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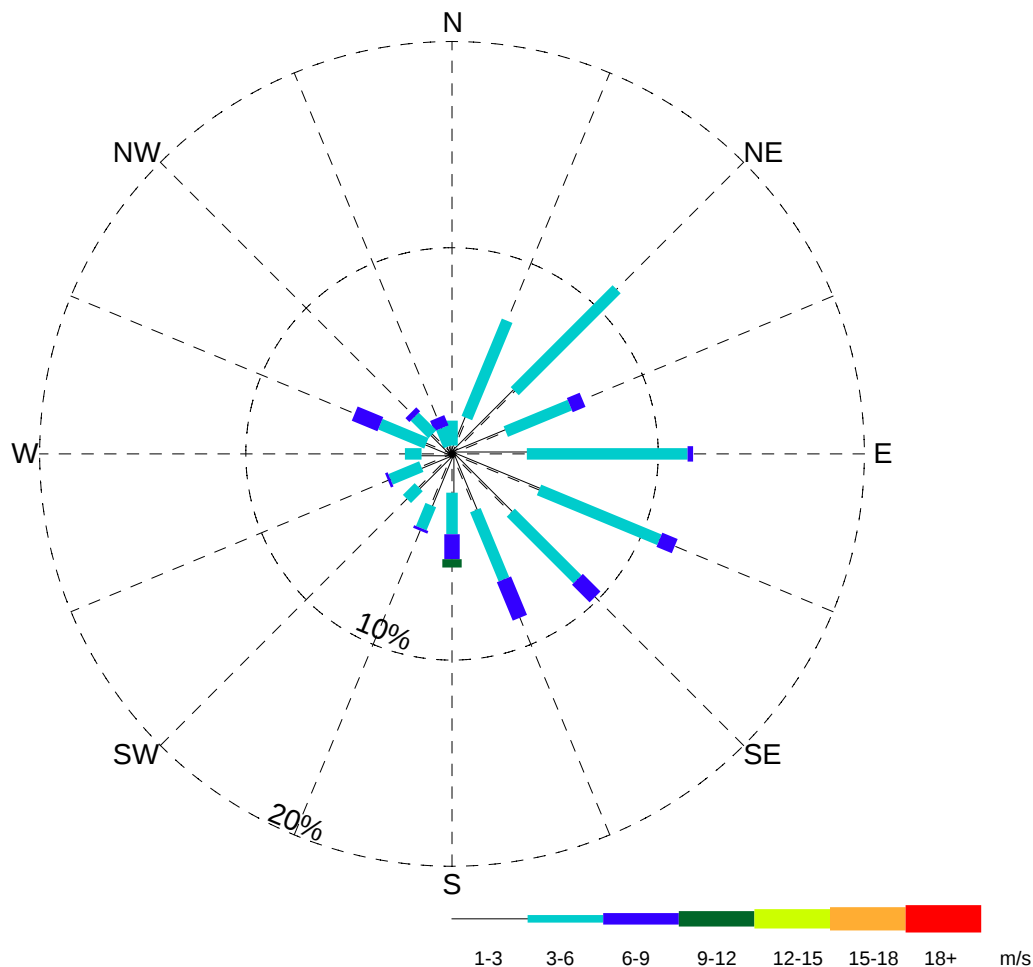
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July 2009

Figure C-49



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	2.82	3.36	0.67	-	-	-	-	6.86
NE	-	4.30	6.99	-	-	-	-	-	11.29
NNE	-	1.88	5.11	-	-	-	-	-	6.99
N	-	0.40	1.21	-	-	-	-	-	1.61
NNW	-	0.40	0.94	0.54	-	-	-	-	1.88
NW	-	1.34	1.21	0.27	-	-	-	-	2.82
WNW	-	1.34	2.42	1.34	-	-	-	-	5.11
W	-	1.48	0.81	-	-	-	-	-	2.29
WSW	-	1.61	1.61	0.13	-	-	-	-	3.36
SW	-	2.29	0.81	-	-	-	-	-	3.09
SSW	-	2.69	1.21	0.13	-	-	-	-	4.03
S	-	1.88	2.02	1.21	0.40	-	-	-	5.51
SSE	-	2.96	3.63	2.02	-	-	-	-	8.60
SE	-	4.03	4.57	1.21	-	-	-	-	9.81
ESE	-	4.57	6.32	0.81	-	-	-	-	11.69
E	-	3.63	7.80	0.27	-	-	-	-	11.69
Calm	3.36	-	-	-	-	-	-	-	3.36
Total (%)	3.36	37.63	50.00	8.60	0.40	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 31 days

Start Date: Oct. 01, 2008

End Date: Oct. 31, 2008

NOTES

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YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Rose
October 2008**

PROJECT NO.
Y22101057

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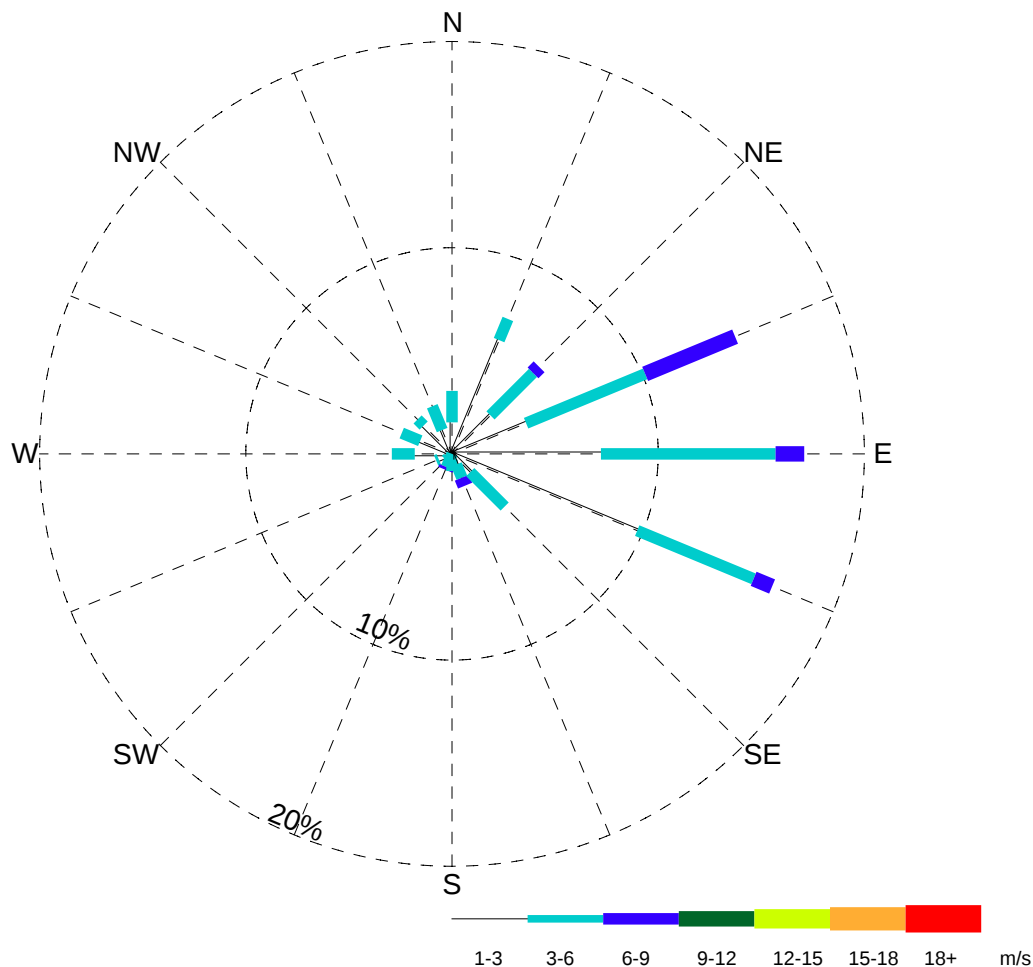
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July 2009

Figure C-50



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	3.89	6.25	4.72	-	-	-	-	14.86
NE	-	2.64	2.92	0.42	-	-	-	-	5.97
NNE	-	5.97	1.11	-	-	-	-	-	7.08
N	-	1.53	1.53	-	-	-	-	-	3.06
NNW	-	1.25	1.25	-	-	-	-	-	2.50
NW	-	1.94	0.42	-	-	-	-	-	2.36
WNW	-	1.67	0.97	-	-	-	-	-	2.64
W	-	1.81	1.11	-	-	-	-	-	2.92
WSW	-	0.69	0.14	-	-	-	-	-	0.83
SW	-	0.28	0.14	-	-	-	-	-	0.42
SSW	-	-	0.69	0.14	-	-	-	-	0.83
S	-	0.28	0.56	-	-	-	-	-	0.83
SSE	-	0.56	0.69	0.42	-	-	-	-	1.67
SE	-	1.25	2.36	-	-	-	-	-	3.61
ESE	-	9.72	6.11	0.97	-	-	-	-	16.81
E	-	7.22	8.47	1.39	-	-	-	-	17.08
Calm	16.53	-	-	-	-	-	-	-	16.53
Total (%)	16.53	40.69	34.72	8.06	-	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 30 days

Start Date: Nov. 01, 2008

End Date: Nov. 30, 2008

NOTES

CLIENT



**EBA Engineering
Consultants Ltd.**



**YELLOWKNIFE GOLD PROJECT
2008 HYDROMETEOROLOGICAL REPORT**

**Tyhee Station
Wind Rose
November 2008**

PROJECT NO.
Y22101057

DWN
TM

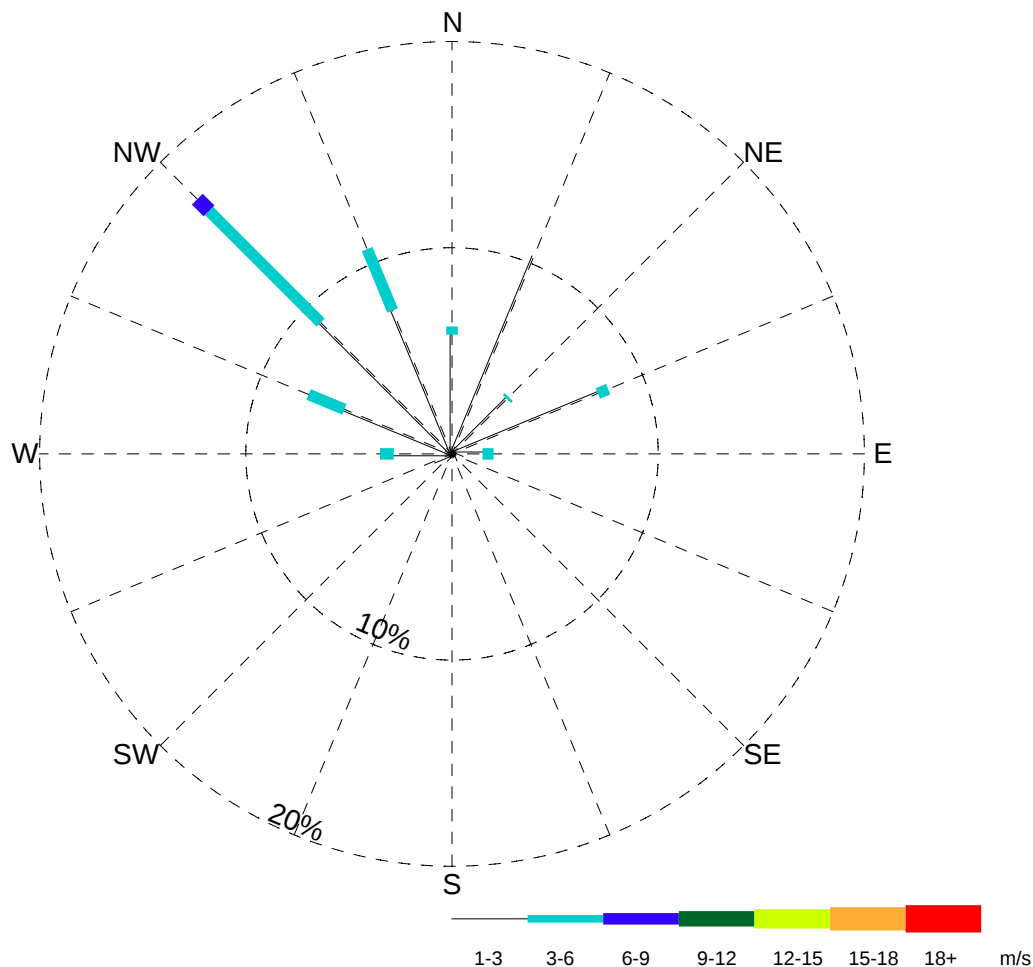
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July 2009

Figure C-51



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	7.66	0.54	-	-	-	-	-	8.20
NE	-	3.76	0.13	-	-	-	-	-	3.90
NNE	-	10.35	-	-	-	-	-	-	10.35
N	-	5.78	0.40	-	-	-	-	-	6.18
NNW	-	7.53	3.23	-	-	-	-	-	10.75
NW	-	9.01	7.66	0.81	-	-	-	-	17.47
WNW	-	5.64	1.88	-	-	-	-	-	7.53
W	-	2.82	0.67	-	-	-	-	-	3.49
WSW	-	0.94	-	-	-	-	-	-	0.94
SW	-	0.40	-	-	-	-	-	-	0.40
SSW	-	-	-	-	-	-	-	-	-
S	-	-	-	-	-	-	-	-	-
SSE	-	0.40	-	-	-	-	-	-	0.40
SE	-	0.13	-	-	-	-	-	-	0.13
ESE	-	0.54	-	-	-	-	-	-	0.54
E	-	1.48	0.54	-	-	-	-	-	2.02
Calm	27.69	-	-	-	-	-	-	-	27.69
Total (%)	27.69	56.45	15.05	0.81	-	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 31 days

Start Date: Dec. 01, 2008

End Date: Dec. 31, 2008

NOTES

CLIENT



EBA Engineering Consultants Ltd. 

**YELLOWKNIFE GOLD PROJECT
2008 HYDROMETEOROLOGICAL REPORT**

**Tyhee Station
Wind Rose
December 2008**

PROJECT NO.
Y22101057

DWN
TM

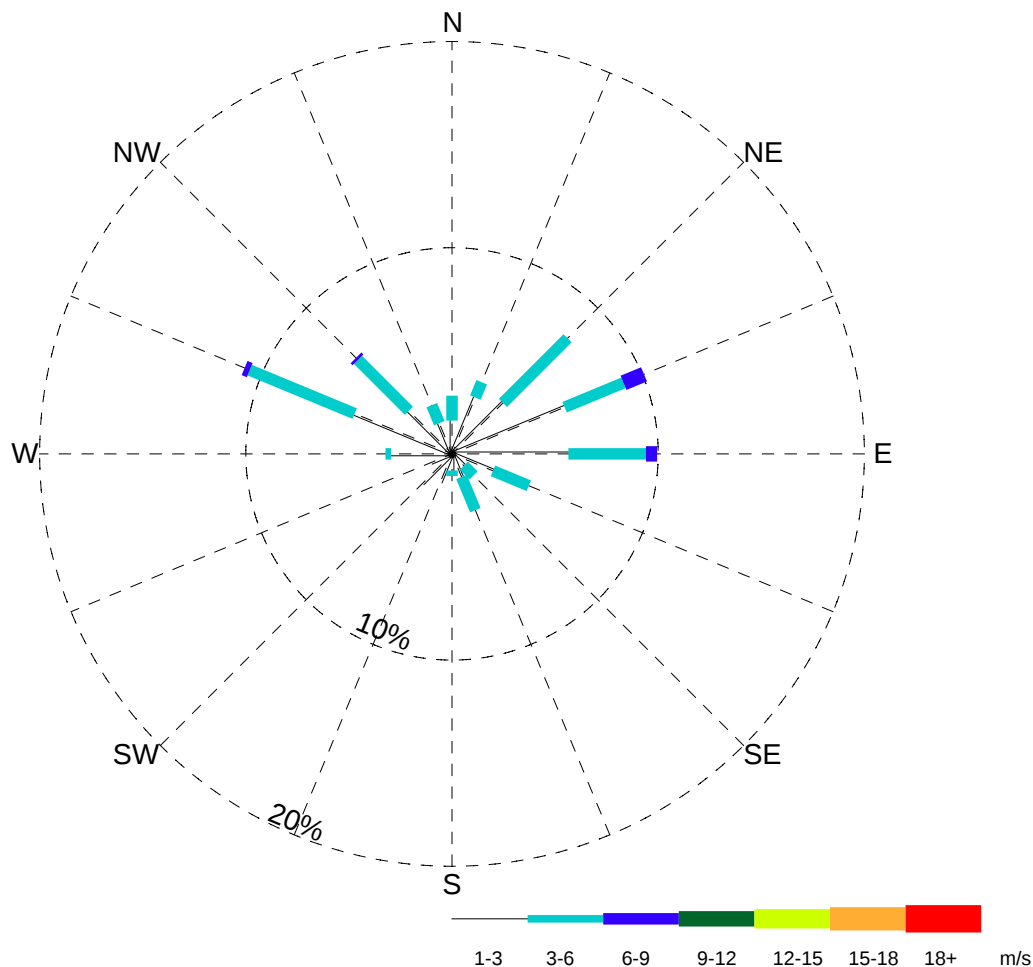
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DATE
July 2009

Figure C-52



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	5.91	3.09	1.08	-	-	-	-	10.08
NE	-	3.49	4.43	-	-	-	-	-	7.93
NNE	-	2.96	0.81	-	-	-	-	-	3.76
N	-	1.61	1.21	-	-	-	-	-	2.82
NNW	-	1.61	0.94	-	-	-	-	-	2.55
NW	-	2.96	3.49	0.13	-	-	-	-	6.59
WNW	-	5.11	5.51	0.27	-	-	-	-	10.89
W	-	2.96	0.27	-	-	-	-	-	3.23
WSW	-	1.08	-	-	-	-	-	-	1.08
SW	-	2.02	-	-	-	-	-	-	2.02
SSW	-	1.48	-	-	-	-	-	-	1.48
S	-	0.81	0.27	-	-	-	-	-	1.08
SSE	-	1.21	1.75	-	-	-	-	-	2.96
SE	-	0.81	0.67	-	-	-	-	-	1.48
ESE	-	2.15	1.88	-	-	-	-	-	4.03
E	-	5.64	3.76	0.54	-	-	-	-	9.95
Calm	28.09	-	-	-	-	-	-	-	28.09
Total (%)	28.09	41.80	28.09	2.02	-	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 31 days

Start Date: Jan. 01, 2009

End Date: Jan. 31, 2009

NOTES

CLIENT



**EBA Engineering
Consultants Ltd.**



YELLOWKNIFE GOLD PROJECT 2009 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Rose
January 2009**

PROJECT NO.
Y22101103

DWN
RED

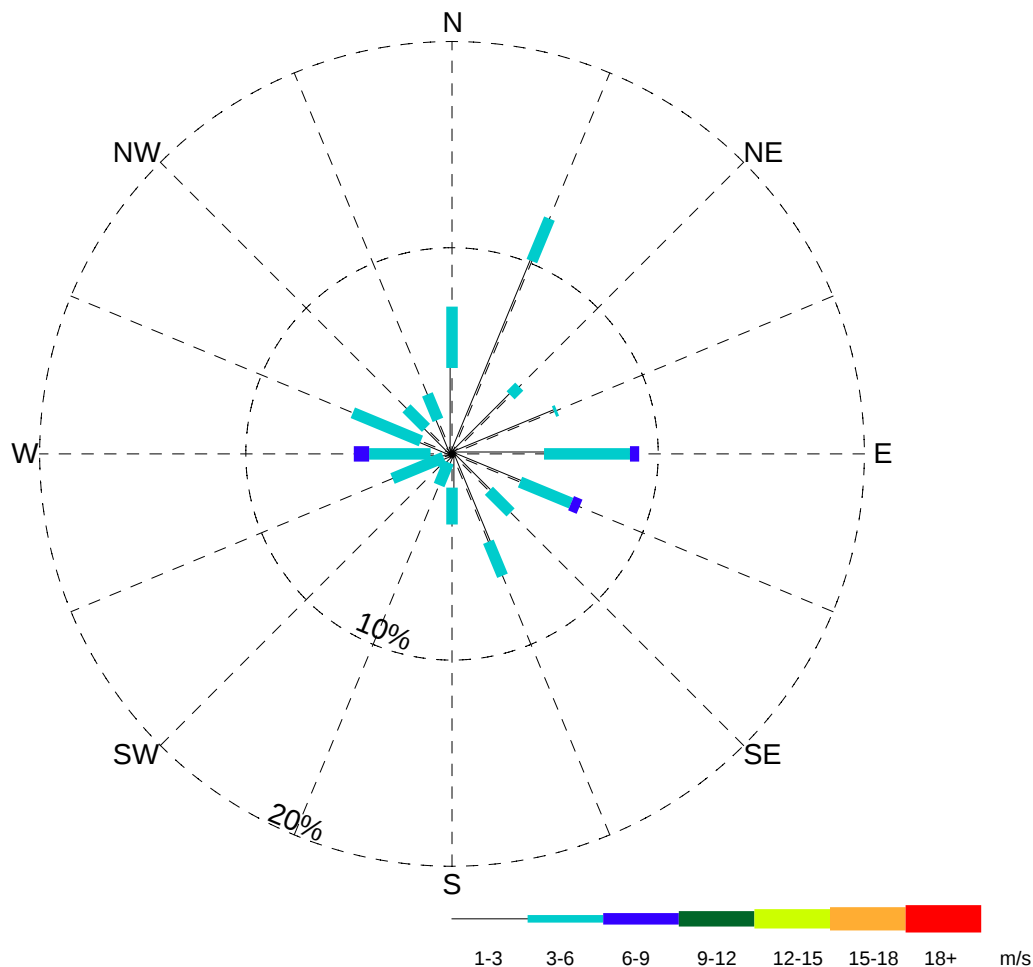
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DATE
February 2010

Figure C-53



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	5.36	0.15	-	-	-	-	-	5.51
NE	-	4.02	0.60	-	-	-	-	-	4.61
NNE	-	10.12	2.23	-	-	-	-	-	12.35
N	-	4.17	2.98	-	-	-	-	-	7.14
NNW	-	1.79	1.34	-	-	-	-	-	3.12
NW	-	1.79	1.34	-	-	-	-	-	3.12
WNW	-	1.64	3.57	-	-	-	-	-	5.21
W	-	1.04	2.98	0.74	-	-	-	-	4.76
WSW	-	0.45	2.68	-	-	-	-	-	3.12
SW	-	0.60	0.30	-	-	-	-	-	0.89
SSW	-	0.45	1.19	-	-	-	-	-	1.64
S	-	1.64	1.79	-	-	-	-	-	3.42
SSE	-	4.61	1.79	-	-	-	-	-	6.40
SE	-	2.53	1.49	-	-	-	-	-	4.02
ESE	-	3.57	2.68	0.45	-	-	-	-	6.70
E	-	4.46	4.17	0.45	-	-	-	-	9.08
Calm	18.90	-	-	-	-	-	-	-	18.90
Total (%)	18.90	48.21	31.25	1.64	-	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 28 days

Start Date: Feb. 01, 2009

End Date: Feb. 28, 2009

NOTES

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YELLOWKNIFE GOLD PROJECT 2009 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Rose
February 2009**

PROJECT NO.
Y22101103

DWN
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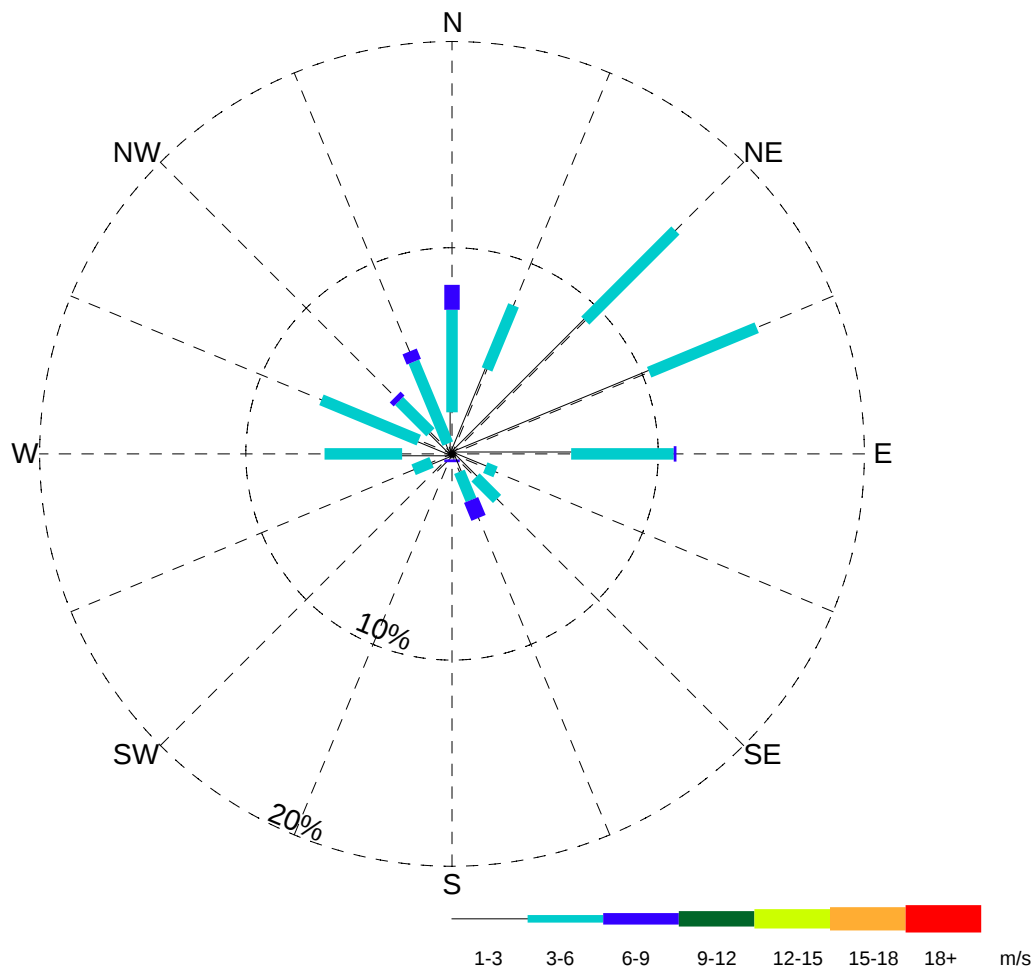
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DATE
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Figure C-54



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	10.35	5.64	-	-	-	-	-	15.99
NE	-	9.14	6.18	-	-	-	-	-	15.32
NNE	-	4.43	3.36	-	-	-	-	-	7.80
N	-	2.02	4.97	1.21	-	-	-	-	8.20
NNW	-	0.54	4.30	0.54	-	-	-	-	5.38
NW	-	1.48	2.15	0.27	-	-	-	-	3.90
WNW	-	1.75	5.11	-	-	-	-	-	6.86
W	-	2.42	3.76	-	-	-	-	-	6.18
WSW	-	1.08	0.94	-	-	-	-	-	2.02
SW	-	1.08	-	-	-	-	-	-	1.08
SSW	-	0.13	-	-	-	-	-	-	0.13
S	-	0.27	-	0.13	-	-	-	-	0.40
SSE	-	0.94	1.48	0.94	-	-	-	-	3.36
SE	-	1.61	1.48	-	-	-	-	-	3.09
ESE	-	1.75	0.54	-	-	-	-	-	2.29
E	-	5.78	4.97	0.13	-	-	-	-	10.89
Calm	7.12	-	-	-	-	-	-	-	7.12
Total (%)	7.12	44.76	44.89	3.23	-	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 31 days

Start Date: Mar. 01, 2009

End Date: Mar. 31, 2009

NOTES

CLIENT



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YELLOWKNIFE GOLD PROJECT 2009 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Rose
March 2009**

PROJECT NO.
Y22101103

DWN
RED

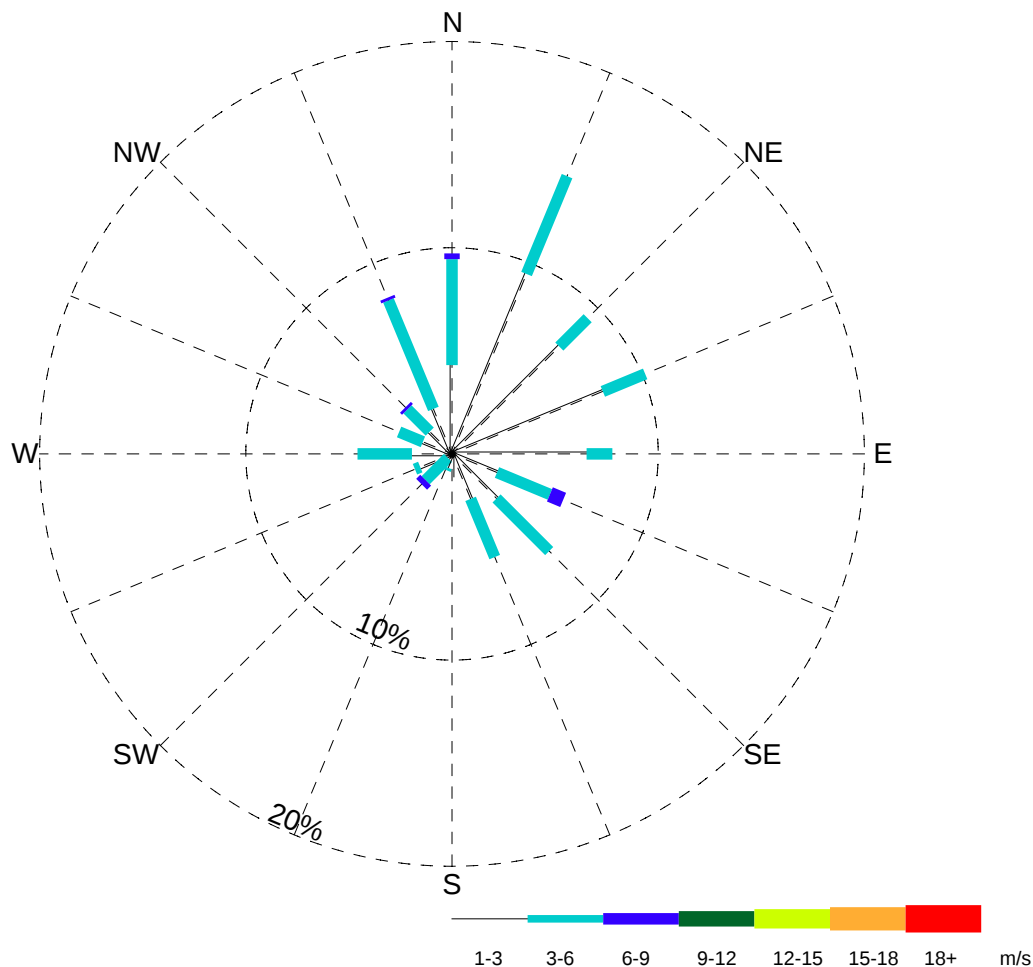
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Figure C-55



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	7.92	2.22	-	-	-	-	-	10.14
NE	-	7.36	1.94	-	-	-	-	-	9.31
NNE	-	9.44	5.14	-	-	-	-	-	14.58
N	-	4.31	5.14	0.28	-	-	-	-	9.72
NNW	-	2.36	5.69	0.14	-	-	-	-	8.19
NW	-	1.53	1.53	0.14	-	-	-	-	3.19
WNW	-	1.53	1.25	-	-	-	-	-	2.78
W	-	1.94	2.64	-	-	-	-	-	4.58
WSW	-	1.67	0.28	-	-	-	-	-	1.94
SW	-	0.28	1.53	0.28	-	-	-	-	2.08
SSW	-	0.69	0.14	-	-	-	-	-	0.83
S	-	1.11	-	-	-	-	-	-	1.11
SSE	-	2.36	3.06	-	-	-	-	-	5.42
SE	-	3.06	3.61	-	-	-	-	-	6.67
ESE	-	2.36	2.78	0.69	-	-	-	-	5.83
E	-	6.53	1.25	-	-	-	-	-	7.78
Calm	5.83	-	-	-	-	-	-	-	5.83
Total (%)	5.83	54.44	38.19	1.53	-	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 30 days

Start Date: Apr. 01, 2009

End Date: Apr. 30, 2009

NOTES

CLIENT



**EBA Engineering
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YELLOWKNIFE GOLD PROJECT 2009 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Rose
April 2009**

PROJECT NO.
Y22101103

DWN
RED

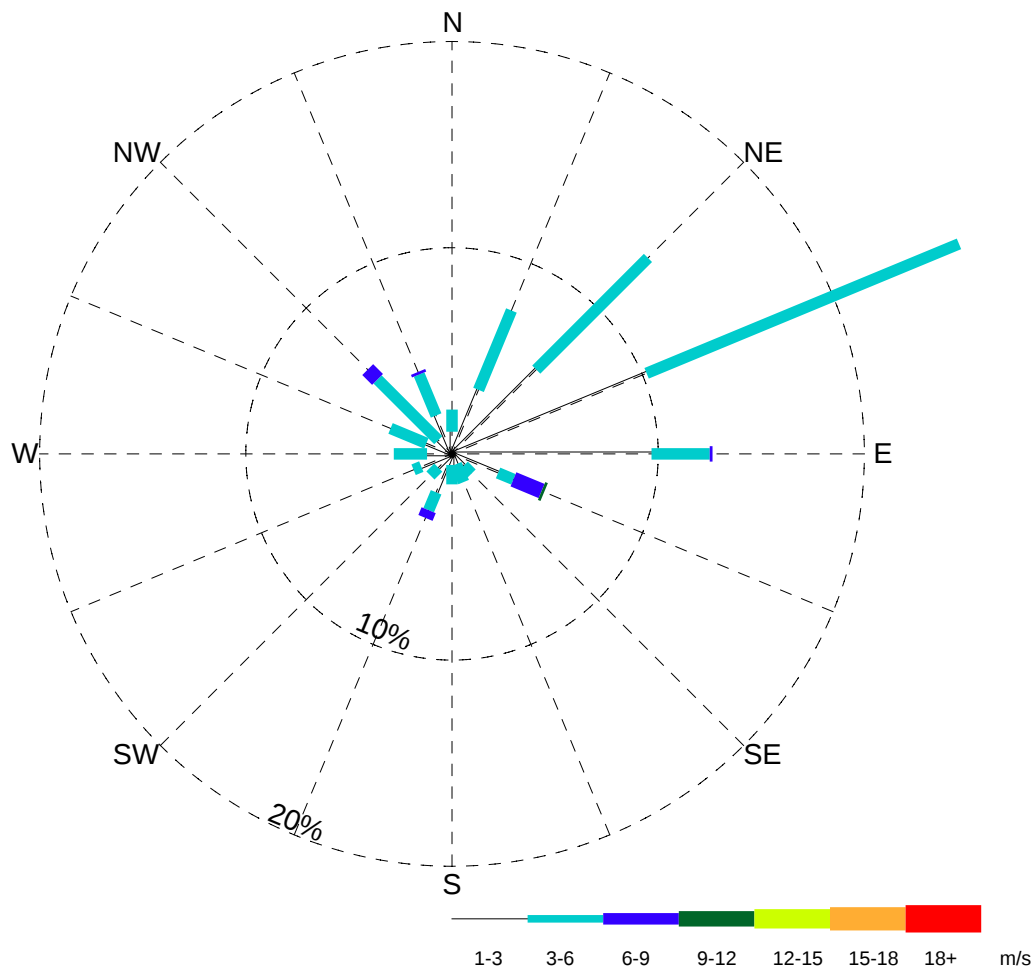
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DATE
February 2010

Figure C-56



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	10.22	16.40	-	-	-	-	-	26.61
NE	-	5.78	7.66	-	-	-	-	-	13.44
NNE	-	3.36	4.17	-	-	-	-	-	7.53
N	-	1.08	1.08	-	-	-	-	-	2.15
NNW	-	2.02	2.15	0.13	-	-	-	-	4.30
NW	-	0.94	4.17	0.67	-	-	-	-	5.78
WNW	-	1.34	1.88	-	-	-	-	-	3.23
W	-	1.21	1.61	-	-	-	-	-	2.82
WSW	-	1.61	0.40	-	-	-	-	-	2.02
SW	-	0.94	0.54	-	-	-	-	-	1.48
SSW	-	2.02	0.94	0.40	-	-	-	-	3.36
S	-	0.54	0.94	-	-	-	-	-	1.48
SSE	-	0.54	0.94	-	-	-	-	-	1.48
SE	-	0.81	0.54	-	-	-	-	-	1.34
ESE	-	2.42	0.81	1.48	0.13	-	-	-	4.84
E	-	9.68	2.82	0.13	-	-	-	-	12.63
Calm	5.51	-	-	-	-	-	-	-	5.51
Total (%)	5.51	44.49	47.04	2.82	0.13	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 31 days

Start Date: May. 01, 2009

End Date: May. 31, 2009

NOTES

CLIENT



EBA Engineering Consultants Ltd. 

**YELLOWKNIFE GOLD PROJECT
2009 HYDROMETEOROLOGICAL REPORT**

**Tyhee Station
Wind Rose
May 2009**

PROJECT NO.
Y22101103

DWN
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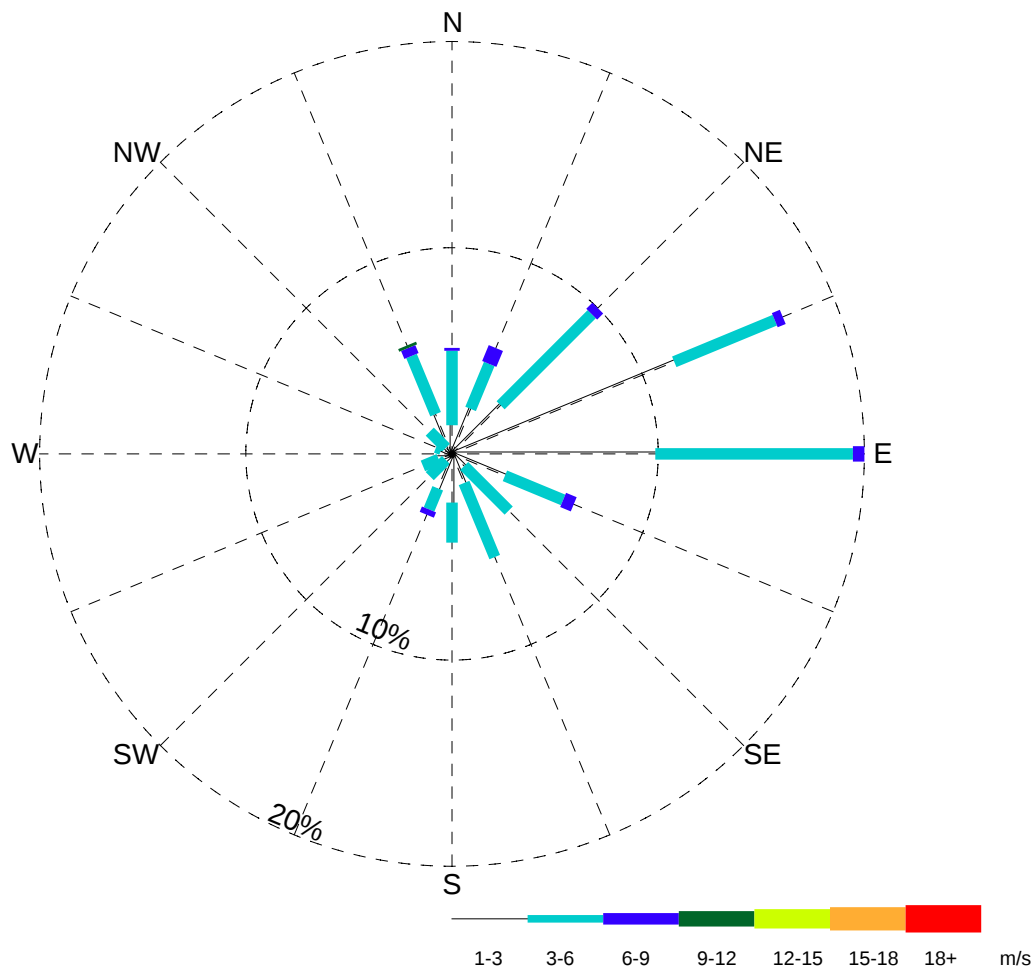
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DATE
February 2010

Figure C-57



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	11.67	5.28	0.42	-	-	-	-	17.36
NE	-	3.33	6.25	0.42	-	-	-	-	10.00
NNE	-	2.36	2.36	0.83	-	-	-	-	5.56
N	-	1.39	3.61	0.14	-	-	-	-	5.14
NNW	-	2.08	3.06	0.42	0.14	-	-	-	5.69
NW	-	0.42	1.11	-	-	-	-	-	1.53
WNW	-	0.56	0.28	-	-	-	-	-	0.83
W	-	0.69	-	-	-	-	-	-	0.69
WSW	-	0.69	0.83	-	-	-	-	-	1.53
SW	-	0.42	1.11	-	-	-	-	-	1.53
SSW	-	1.81	1.11	0.28	-	-	-	-	3.19
S	-	2.36	1.94	-	-	-	-	-	4.31
SSE	-	1.53	3.89	-	-	-	-	-	5.42
SE	-	0.83	3.06	-	-	-	-	-	3.89
ESE	-	2.78	3.06	0.56	-	-	-	-	6.39
E	-	9.86	9.58	0.56	-	-	-	-	20.00
Calm	6.94	-	-	-	-	-	-	-	6.94
Total (%)	6.94	42.78	46.53	3.61	0.14	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 30 days

Start Date: June 01, 2009

End Date: June 30, 2009

NOTES

CLIENT



EBA Engineering Consultants Ltd. 

**YELLOWKNIFE GOLD PROJECT
2009 HYDROMETEOROLOGICAL REPORT**

**Tyhee Station
Wind Rose
June 2009**

PROJECT NO.
Y22101103

DWN
RED

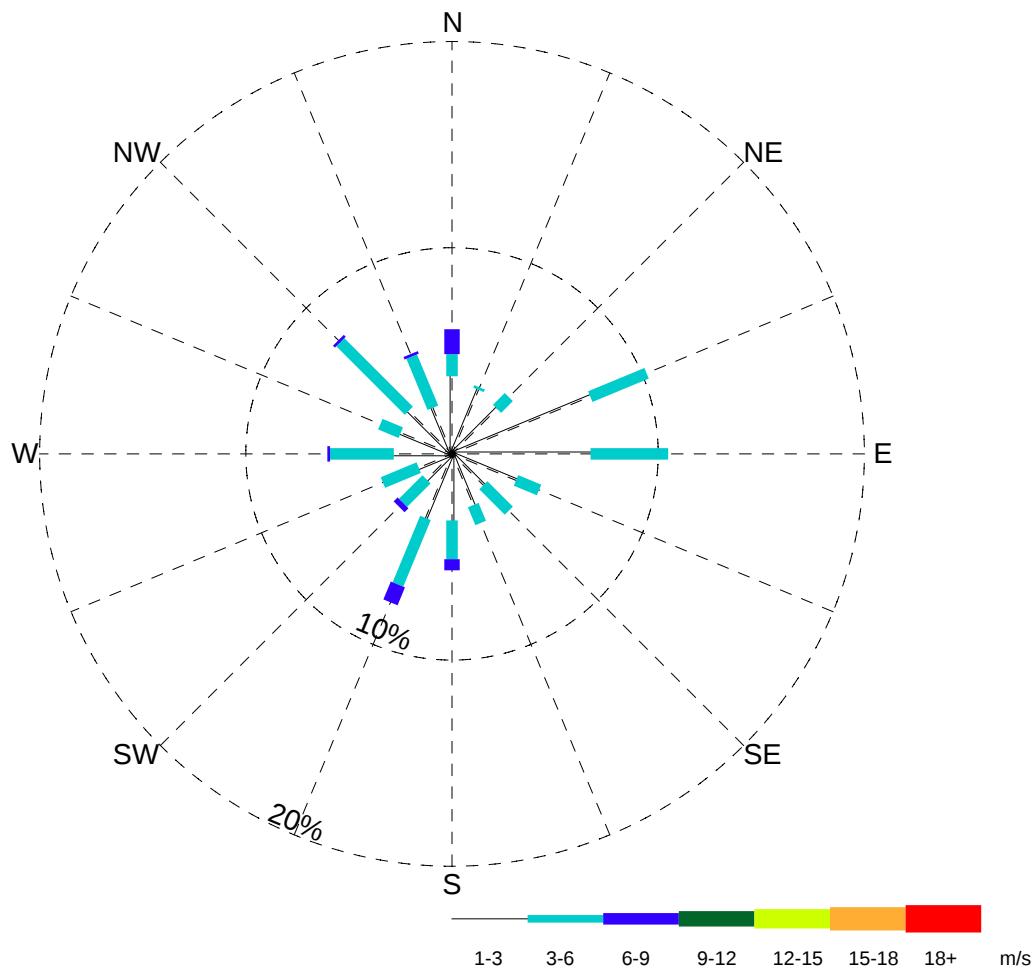
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February 2010

Figure C-58



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	7.26	2.96	-	-	-	-	-	10.22
NE	-	3.09	0.81	-	-	-	-	-	3.90
NNE	-	3.36	0.13	-	-	-	-	-	3.49
N	-	3.76	1.08	1.21	-	-	-	-	6.05
NNW	-	2.42	2.69	0.13	-	-	-	-	5.24
NW	-	2.96	4.70	0.13	-	-	-	-	7.80
WNW	-	2.69	1.08	-	-	-	-	-	3.76
W	-	2.82	3.09	0.13	-	-	-	-	6.05
WSW	-	1.75	1.88	-	-	-	-	-	3.63
SW	-	1.75	1.61	0.27	-	-	-	-	3.63
SSW	-	3.36	3.49	0.94	-	-	-	-	7.80
S	-	3.23	1.88	0.54	-	-	-	-	5.64
SSE	-	2.69	0.94	-	-	-	-	-	3.63
SE	-	2.15	1.75	-	-	-	-	-	3.90
ESE	-	3.36	1.21	-	-	-	-	-	4.57
E	-	6.72	3.76	-	-	-	-	-	10.48
Calm	10.22	-	-	-	-	-	-	-	10.22
Total (%)	10.22	53.36	33.06	3.36	-	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 31 days

Start Date: July 01, 2009

End Date: July 31, 2009

NOTES

CLIENT



**EBA Engineering
Consultants Ltd.**



**YELLOWKNIFE GOLD PROJECT
2009 HYDROMETEOROLOGICAL REPORT**

**Tyhee Station
Wind Rose
July 2009**

PROJECT NO.
Y22101103

DWN
RED

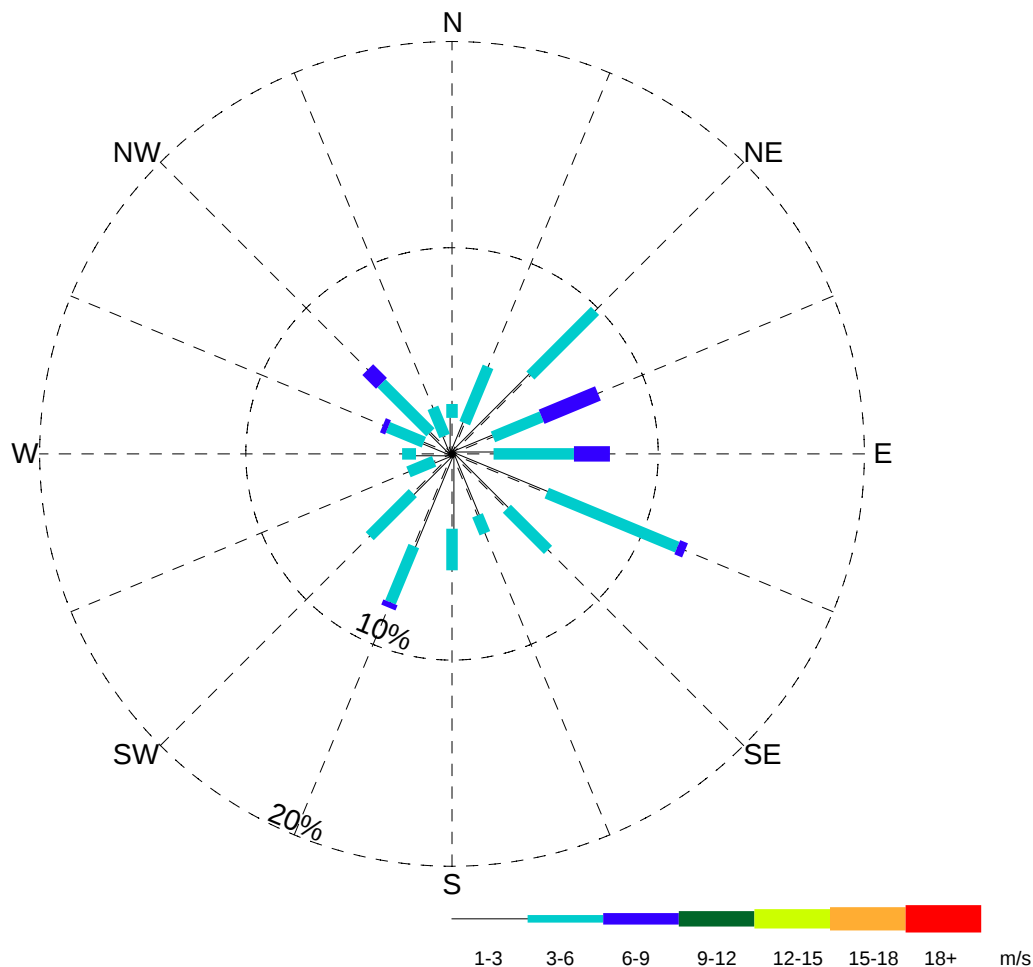
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February 2010

Figure C-59



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	2.15	2.55	2.96	-	-	-	-	7.66
NE	-	5.38	4.43	-	-	-	-	-	9.81
NNE	-	1.61	2.96	-	-	-	-	-	4.57
N	-	1.75	0.67	-	-	-	-	-	2.42
NNW	-	0.94	1.48	-	-	-	-	-	2.42
NW	-	1.48	3.36	0.94	-	-	-	-	5.78
WNW	-	1.48	1.88	0.27	-	-	-	-	3.63
W	-	1.75	0.67	-	-	-	-	-	2.42
WSW	-	0.94	1.34	-	-	-	-	-	2.29
SW	-	2.69	2.96	-	-	-	-	-	5.64
SSW	-	4.84	2.96	0.27	-	-	-	-	8.06
S	-	3.63	2.02	-	-	-	-	-	5.64
SSE	-	3.23	0.94	-	-	-	-	-	4.17
SE	-	3.76	2.82	-	-	-	-	-	6.59
ESE	-	4.97	6.86	0.40	-	-	-	-	12.23
E	-	2.02	3.90	1.75	-	-	-	-	7.66
Calm	9.01	-	-	-	-	-	-	-	9.01
Total (%)	9.01	42.61	41.80	6.59	-	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 23 days

Start Date: Aug. 01, 2009

End Date: Aug. 23, 2009

NOTES

CLIENT



EBA Engineering Consultants Ltd. 

**YELLOWKNIFE GOLD PROJECT
2009 HYDROMETEOROLOGICAL REPORT**

**Tyhee Station
Wind Rose
August 2009**

PROJECT NO.
Y22101103

DWN
RED

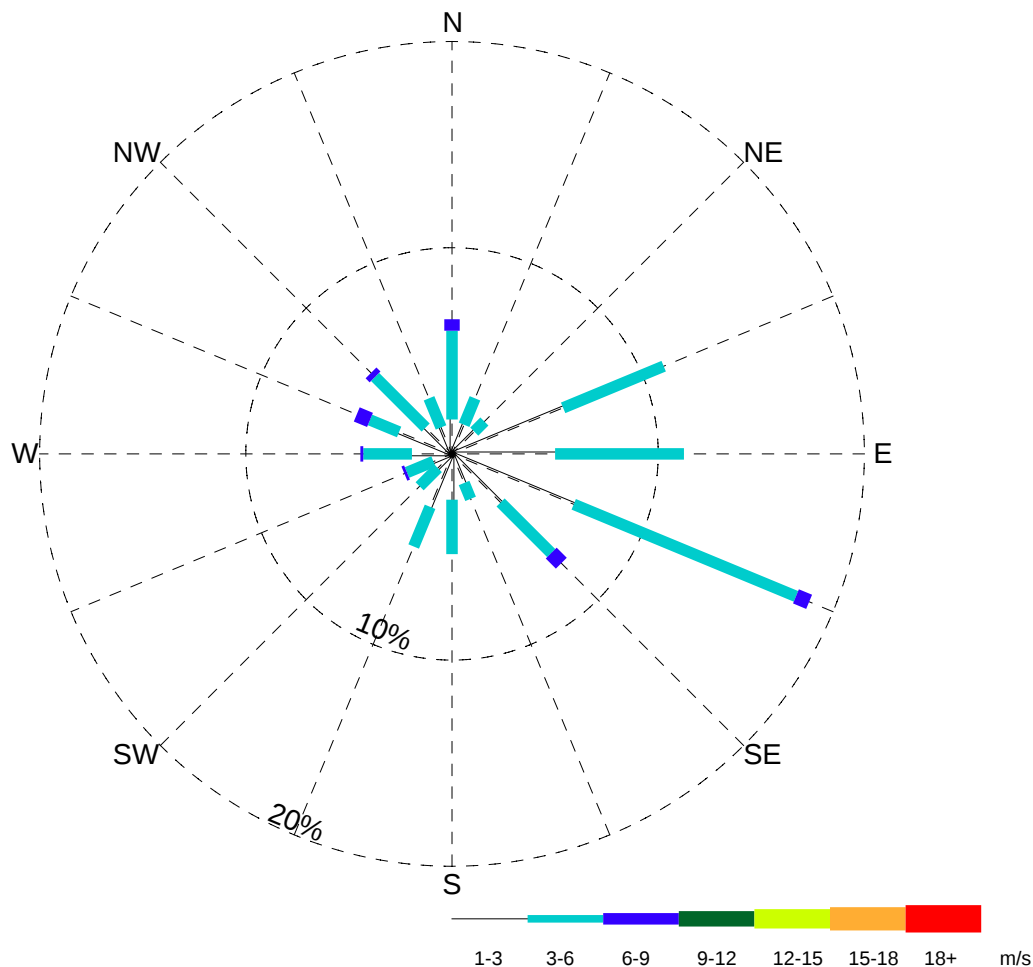
CHK
JAS

REV
0

OFFICE
EBA-VANC

DATE
February 2010

Figure C-60



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	5.83	5.28	-	-	-	-	-	11.11
NE	-	1.53	0.69	-	-	-	-	-	2.22
NNE	-	1.53	1.39	-	-	-	-	-	2.92
N	-	1.67	4.31	0.56	-	-	-	-	6.53
NNW	-	1.39	1.53	-	-	-	-	-	2.92
NW	-	1.81	3.47	0.28	-	-	-	-	5.56
WNW	-	2.78	1.53	0.69	-	-	-	-	5.00
W	-	1.94	2.36	0.14	-	-	-	-	4.44
WSW	-	0.97	1.39	0.14	-	-	-	-	2.50
SW	-	0.97	1.25	-	-	-	-	-	2.22
SSW	-	2.78	2.08	-	-	-	-	-	4.86
S	-	2.22	2.64	-	-	-	-	-	4.86
SSE	-	1.53	0.83	-	-	-	-	-	2.36
SE	-	3.33	3.47	0.69	-	-	-	-	7.50
ESE	-	6.39	11.67	0.69	-	-	-	-	18.75
E	-	5.00	6.25	-	-	-	-	-	11.25
Calm	5.00	-	-	-	-	-	-	-	5.00
Total (%)	5.00	41.67	50.14	3.19	-	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 30 days

Start Date: Sep. 01, 2009

End Date: Sep. 30, 2009

NOTES

CLIENT



**EBA Engineering
Consultants Ltd.**



**YELLOWKNIFE GOLD PROJECT
2009 HYDROMETEOROLOGICAL REPORT**

**Tyhee Station
Wind Rose
September 2009**

PROJECT NO.
Y22101103

DWN
RED

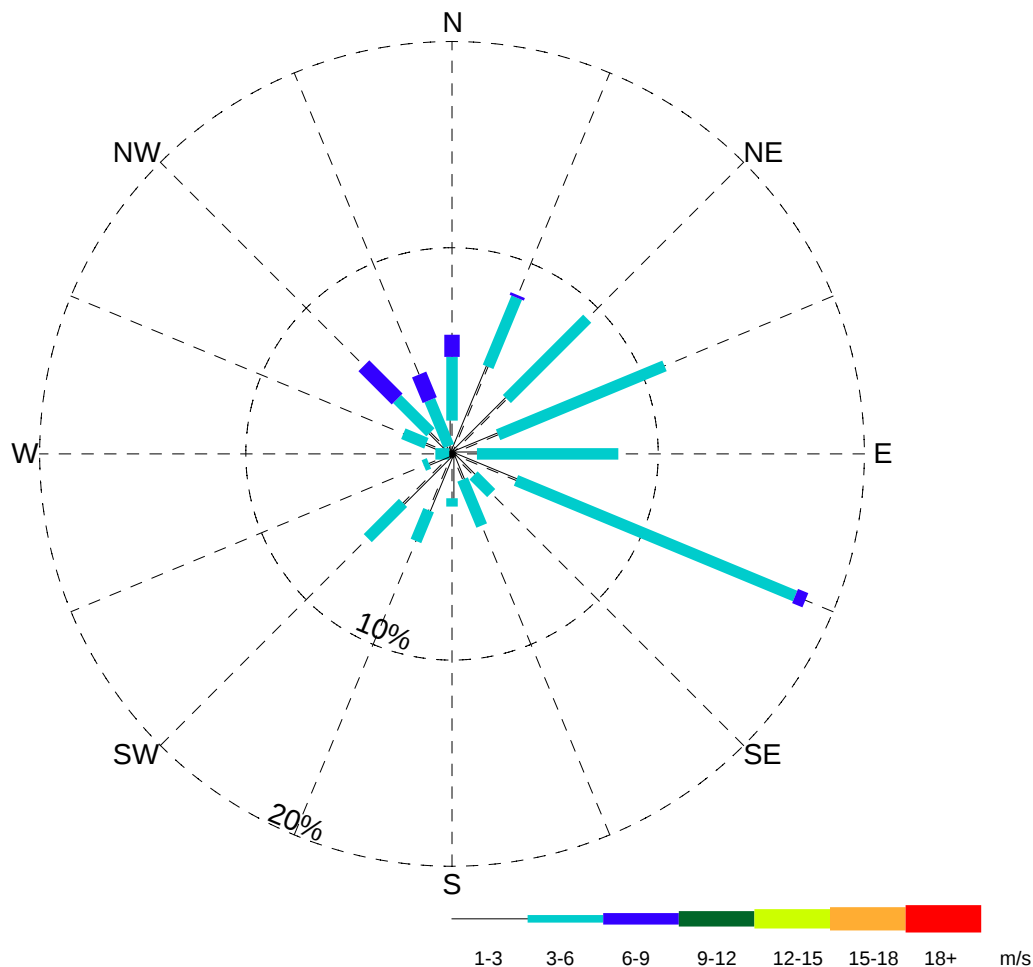
CHK
JAS

REV
0

OFFICE
EBA-VANC

DATE
February 2010

Figure C-61



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	2.42	8.74	-	-	-	-	-	11.16
NE	-	3.76	5.51	-	-	-	-	-	9.27
NNE	-	4.57	3.63	0.13	-	-	-	-	8.33
N	-	1.61	3.09	1.08	-	-	-	-	5.78
NNW	-	0.40	2.42	1.34	-	-	-	-	4.17
NW	-	1.48	2.29	2.29	-	-	-	-	6.05
WNW	-	1.34	1.21	-	-	-	-	-	2.55
W	-	0.13	0.67	-	-	-	-	-	0.81
WSW	-	1.21	0.27	-	-	-	-	-	1.48
SW	-	3.36	2.42	-	-	-	-	-	5.78
SSW	-	2.96	1.61	-	-	-	-	-	4.57
S	-	2.15	0.40	-	-	-	-	-	2.55
SSE	-	1.34	2.42	-	-	-	-	-	3.76
SE	-	1.48	1.21	-	-	-	-	-	2.69
ESE	-	3.36	14.65	0.54	-	-	-	-	18.55
E	-	1.21	6.86	-	-	-	-	-	8.06
Calm	4.43	-	-	-	-	-	-	-	4.43
Total (%)	4.43	32.80	57.39	5.38	-	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 31 days

Start Date: Oct. 01, 2009

End Date: Oct. 31, 2009

NOTES

CLIENT



EBA Engineering Consultants Ltd.



YELLOWKNIFE GOLD PROJECT 2009 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Wind Rose
OCTOBER 2009**

PROJECT NO.
Y22101103

DWN
RED

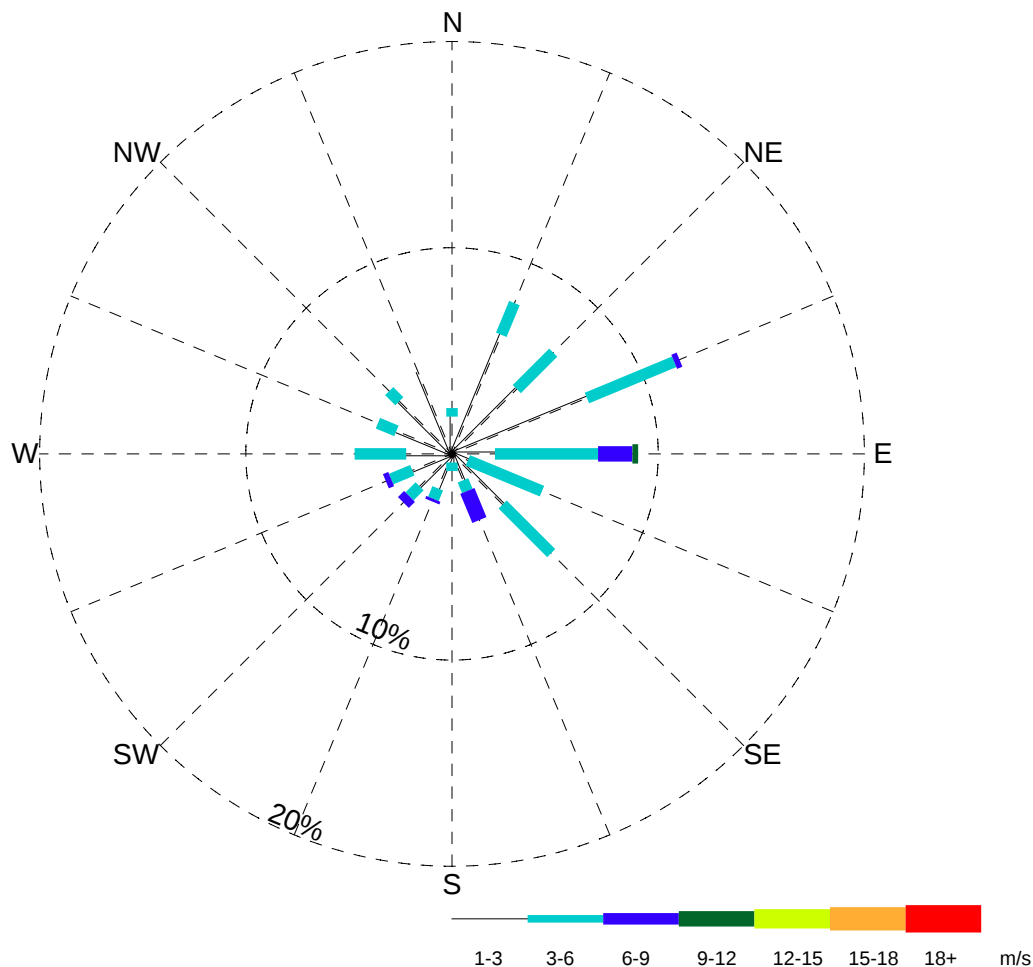
CHK
JAS

REV
0

OFFICE
EBA-VANC

DATE
February 2010

Figure C-62



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	7.08	4.58	0.28	-	-	-	-	11.94
NE	-	4.44	2.50	-	-	-	-	-	6.94
NNE	-	6.25	1.67	-	-	-	-	-	7.92
N	-	1.81	0.42	-	-	-	-	-	2.22
NNW	-	4.31	-	-	-	-	-	-	4.31
NW	-	3.61	0.69	-	-	-	-	-	4.31
WNW	-	2.92	0.97	-	-	-	-	-	3.89
W	-	2.22	2.50	-	-	-	-	-	4.72
WSW	-	2.08	1.11	0.28	-	-	-	-	3.47
SW	-	2.22	0.69	0.42	-	-	-	-	3.33
SSW	-	1.81	0.56	0.14	-	-	-	-	2.50
S	-	0.42	0.42	-	-	-	-	-	0.83
SSE	-	1.39	0.56	1.53	-	-	-	-	3.47
SE	-	3.47	3.33	-	-	-	-	-	6.81
ESE	-	0.83	3.89	-	-	-	-	-	4.72
E	-	2.08	5.00	1.67	0.28	-	-	-	9.03
Calm	19.58	-	-	-	-	-	-	-	19.58
Total (%)	19.58	46.94	28.89	4.31	0.28	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 30 days

Start Date: Nov. 01, 2009

End Date: Nov. 30, 2009

NOTES

CLIENT



**EBA Engineering
Consultants Ltd.**



**YELLOWKNIFE GOLD PROJECT
2009 HYDROMETEOROLOGICAL REPORT**

**Tyhee Station
Wind Rose
November 2009**

PROJECT NO.
Y22101103

DWN
RED

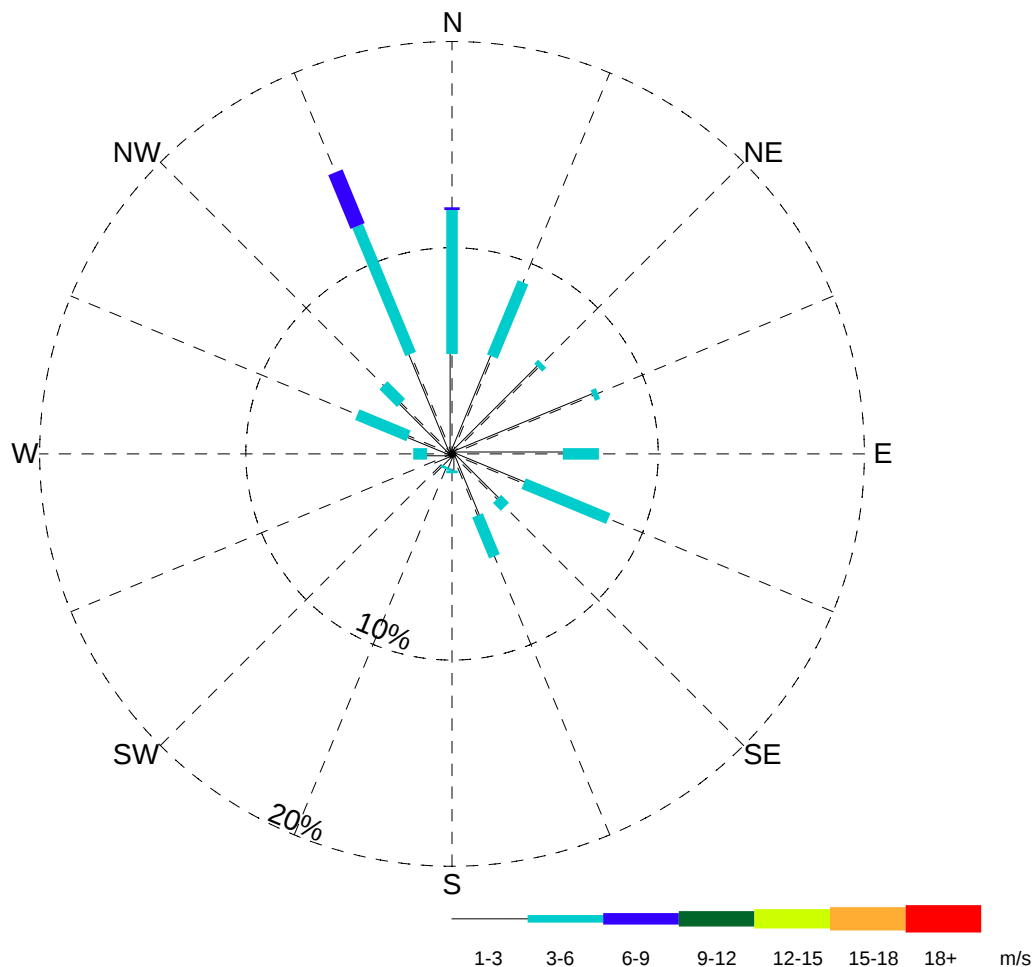
CHK
JAS

REV
0

OFFICE
EBA-VANC

DATE
February 2010

Figure C-63



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	7.39	0.27	-	-	-	-	-	7.66
NE	-	5.91	0.27	-	-	-	-	-	6.18
NNE	-	5.11	3.90	-	-	-	-	-	9.01
N	-	4.84	6.99	0.13	-	-	-	-	11.96
NNW	-	5.24	6.72	2.82	-	-	-	-	14.78
NW	-	3.49	1.21	-	-	-	-	-	4.70
WNW	-	2.29	2.69	-	-	-	-	-	4.97
W	-	1.21	0.67	-	-	-	-	-	1.88
WSW	-	0.94	-	-	-	-	-	-	0.94
SW	-	1.34	-	-	-	-	-	-	1.34
SSW	-	0.67	0.13	-	-	-	-	-	0.81
S	-	0.81	0.13	-	-	-	-	-	0.94
SSE	-	3.23	2.15	-	-	-	-	-	5.38
SE	-	3.09	0.54	-	-	-	-	-	3.63
ESE	-	3.76	4.43	-	-	-	-	-	8.20
E	-	5.38	1.75	-	-	-	-	-	7.12
Calm	10.48	-	-	-	-	-	-	-	10.48
Total (%)	10.48	54.70	31.85	2.96	-	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 31 days

Start Date: Dec. 01, 2009

End Date: Dec. 31, 2009

NOTES

CLIENT



EBA Engineering Consultants Ltd. 

**YELLOWKNIFE GOLD PROJECT
2009 HYDROMETEOROLOGICAL REPORT**

**Tyhee Station
Wind Rose
December 2009**

PROJECT NO.
Y22101103

DWN
RED

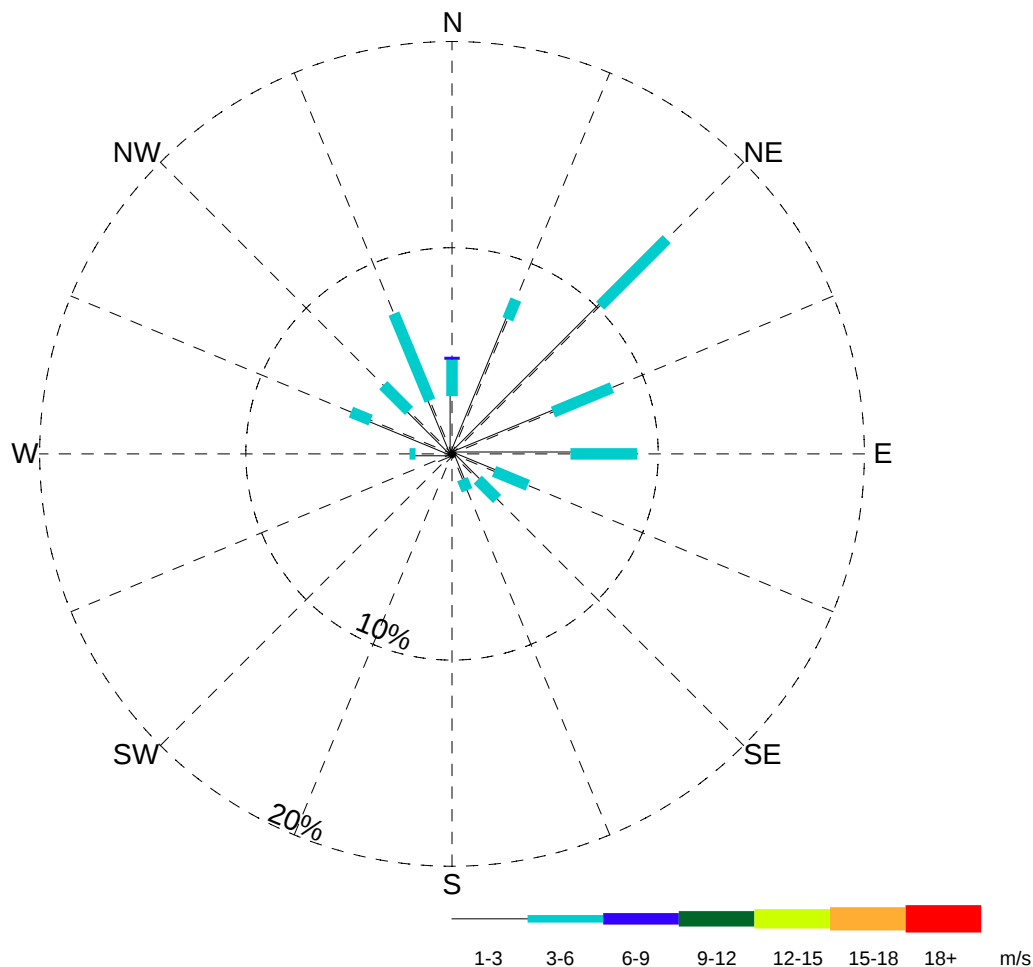
CHK
JAS

REV
0

OFFICE
EBA-VANC

DATE
February 2010

Figure C-64



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	5.30	3.09	-	-	-	-	-	8.40
NE	-	10.16	4.57	-	-	-	-	-	14.73
NNE	-	7.07	1.03	-	-	-	-	-	8.10
N	-	2.80	1.77	0.15	-	-	-	-	4.71
NNW	-	2.80	4.57	-	-	-	-	-	7.36
NW	-	2.95	1.77	-	-	-	-	-	4.71
WNW	-	4.27	1.03	-	-	-	-	-	5.30
W	-	1.77	0.29	-	-	-	-	-	2.06
WSW	-	0.74	-	-	-	-	-	-	0.74
SW	-	0.44	-	-	-	-	-	-	0.44
SSW	-	0.29	-	-	-	-	-	-	0.29
S	-	0.15	-	-	-	-	-	-	0.15
SSE	-	1.33	0.59	-	-	-	-	-	1.91
SE	-	1.77	1.33	-	-	-	-	-	3.09
ESE	-	2.21	1.77	-	-	-	-	-	3.98
E	-	5.74	3.24	-	-	-	-	-	8.98
Calm	25.04	-	-	-	-	-	-	-	25.04
Total (%)	25.04	49.78	25.04	0.15	-	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 28 days

Start Date: Jan. 01, 2010

End Date: Jan. 31, 2010

Comment:

NOTES

Ice affected wind data has been removed from January 20, 2010 @ 10:15 hr. to January 23, 2010 @ 5:30 hr.

STATUS
ISSUED FOR USE

CLIENT

Tyhee NWT Corp

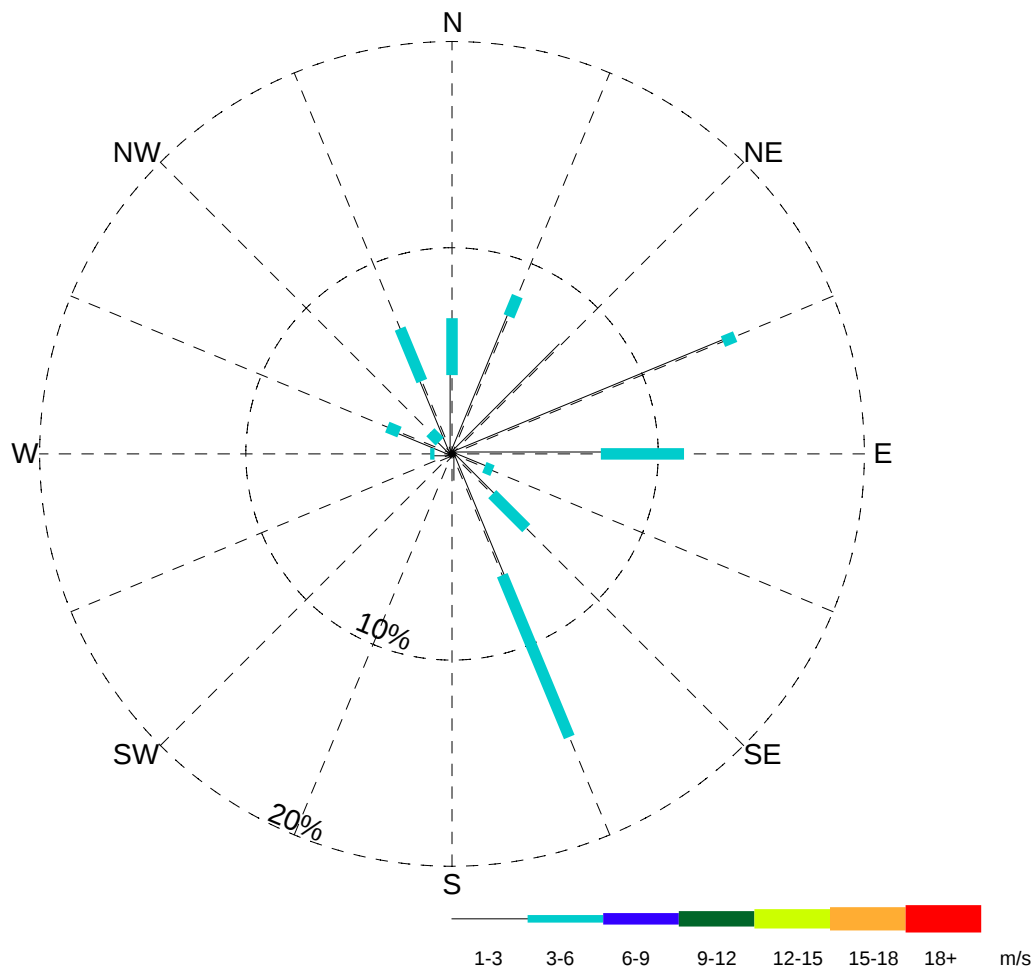
eba
A TETRA TECH COMPANY

YELLOWKNIFE GOLD PROJECT 2010 HYDROMETEOROLOGICAL REPORT

Tyhee Station January 2010 Wind Rose

PROJECT NO.	DWN	CHK	APVD	REV
Y22101170	RED	JAS	JAS	0
OFFICE	DATE			
EBA-VANC	January 2011			

Figure C-65



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	14.23	0.64	-	-	-	-	-	14.86
NE	-	7.43	-	-	-	-	-	-	7.43
NNE	-	7.22	1.06	-	-	-	-	-	8.28
N	-	3.82	2.76	-	-	-	-	-	6.58
NNW	-	3.82	2.76	-	-	-	-	-	6.58
NW	-	0.85	0.64	-	-	-	-	-	1.49
WNW	-	2.76	0.64	-	-	-	-	-	3.40
W	-	0.85	0.21	-	-	-	-	-	1.06
WSW	-	0.64	-	-	-	-	-	-	0.64
SW	-	0.43	-	-	-	-	-	-	0.43
SSW	-	-	-	-	-	-	-	-	-
S	-	1.27	-	-	-	-	-	-	1.27
SSE	-	6.37	8.49	-	-	-	-	-	14.86
SE	-	2.76	2.34	-	-	-	-	-	5.10
ESE	-	1.70	0.43	-	-	-	-	-	2.12
E	-	7.22	4.03	-	-	-	-	-	11.25
Calm	14.65	-	-	-	-	-	-	-	14.65
Total (%)	14.65	61.36	23.99	-	-	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 20 days

Start Date: Feb. 01, 2010

End Date: Feb. 28, 2010

Comment:

NOTES

Ice affected wind data has been removed from February 9, 2010 @ 2:30 hr. to February 17, 2010 @ 13:45 hr.

STATUS
ISSUED FOR USE

CLIENT

Tyhee NWT Corp

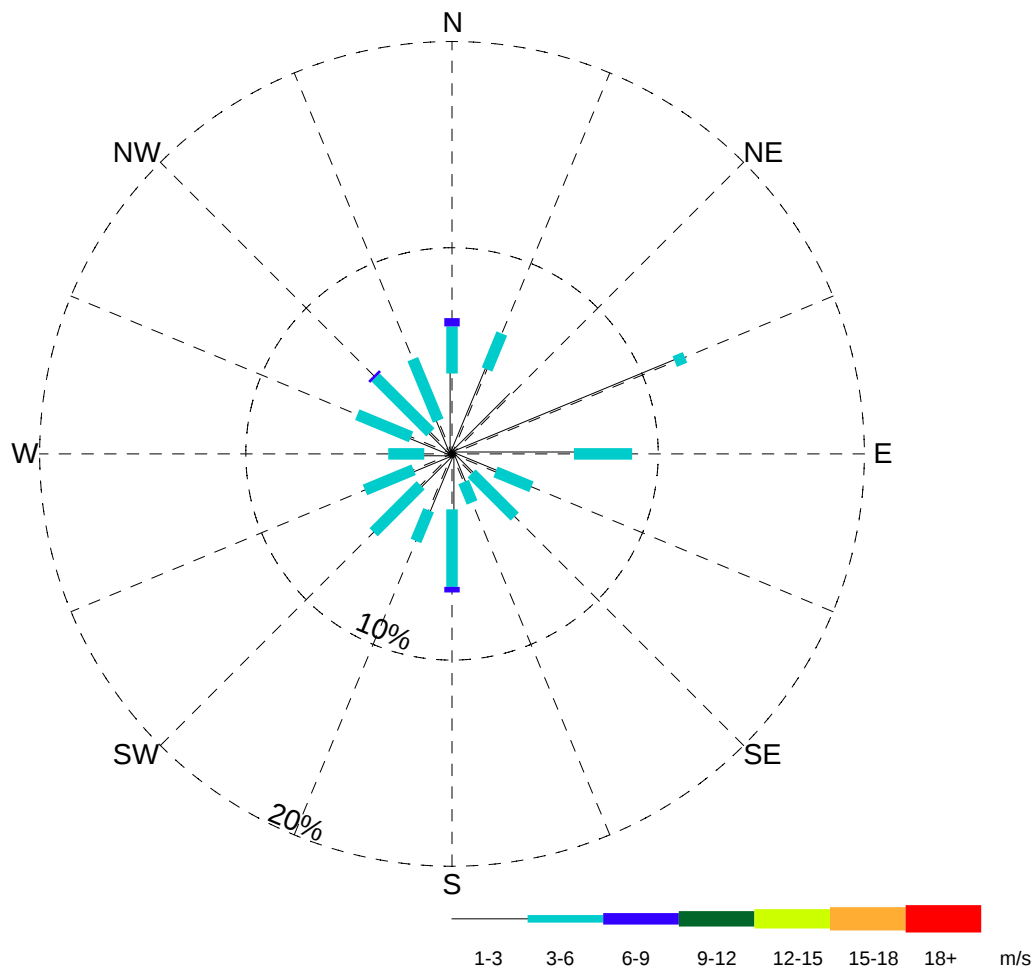
eba
A TETRA TECH COMPANY

YELLOWKNIFE GOLD PROJECT 2010 HYDROMETEOROLOGICAL REPORT

Tyhee Station February 2010 Wind Rose

PROJECT NO. Y22101170	DWN RED	CHK JAS	APVD JAS	REV 0
OFFICE EBA-VANC	DATE January 2011			

Figure C-66



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	11.69	0.54	-	-	-	-	-	12.23
NE	-	4.03	-	-	-	-	-	-	4.03
NNE	-	4.43	1.88	-	-	-	-	-	6.32
N	-	3.90	2.29	0.40	-	-	-	-	6.59
NNW	-	1.75	3.23	-	-	-	-	-	4.97
NW	-	1.48	3.76	0.13	-	-	-	-	5.38
WNW	-	2.15	2.82	-	-	-	-	-	4.97
W	-	1.34	1.75	-	-	-	-	-	3.09
WSW	-	2.02	2.55	-	-	-	-	-	4.57
SW	-	2.15	3.23	-	-	-	-	-	5.38
SSW	-	2.96	1.61	-	-	-	-	-	4.57
S	-	2.69	3.76	0.27	-	-	-	-	6.72
SSE	-	1.48	1.08	-	-	-	-	-	2.55
SE	-	1.34	2.96	-	-	-	-	-	4.30
ESE	-	2.29	1.88	-	-	-	-	-	4.17
E	-	5.91	2.82	-	-	-	-	-	8.74
Calm	11.43	-	-	-	-	-	-	-	11.43
Total (%)	11.43	51.61	36.16	0.81	-	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 31 days

Start Date: Mar. 01, 2010

End Date: Mar. 31, 2010

Comment:

NOTES

CLIENT

Tyhee NWT Corp



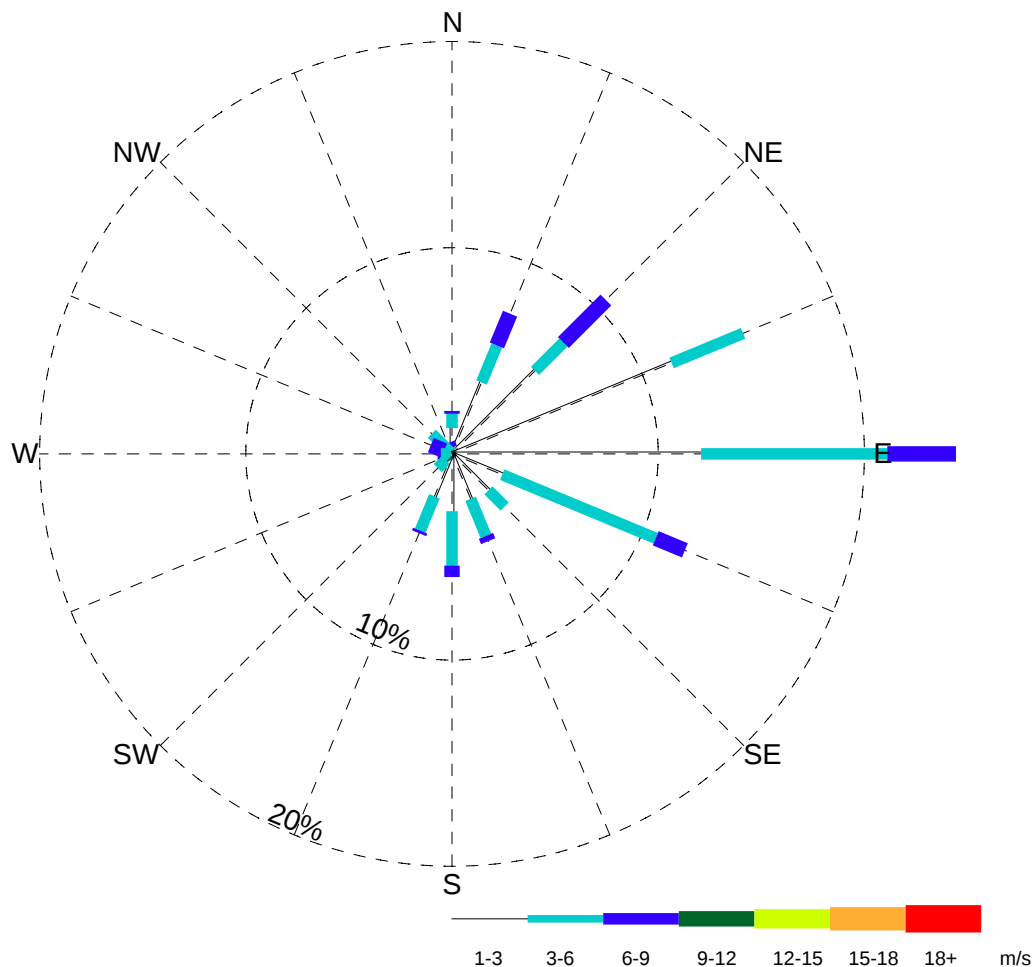
STATUS
ISSUED FOR USE

YELLOWKNIFE GOLD PROJECT 2010 HYDROMETEOROLOGICAL REPORT

Tyhee Station March 2010 Wind Rose

PROJECT NO. Y22101170	DWN RED	CHK JAS	APVD JAS	REV 0
OFFICE EBA-VANC	DATE January 2011			

Figure C-67



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	11.53	3.75	-	-	-	-	-	15.28
NE	-	5.69	1.94	2.92	-	-	-	-	10.56
NNE	-	3.75	1.94	1.67	-	-	-	-	7.36
N	-	1.25	0.69	0.14	-	-	-	-	2.08
NNW	-	0.14	0.14	0.28	-	-	-	-	0.56
NW	-	0.14	1.25	-	-	-	-	-	1.39
WNW	-	0.14	0.28	0.69	-	-	-	-	1.11
W	-	0.28	0.28	0.14	-	-	-	-	0.69
WSW	-	-	0.42	-	-	-	-	-	0.42
SW	-	0.42	0.56	-	-	-	-	-	0.97
SSW	-	2.22	1.81	0.14	-	-	-	-	4.17
S	-	2.78	2.64	0.56	-	-	-	-	5.97
SSE	-	2.36	1.94	0.28	-	-	-	-	4.58
SE	-	2.50	1.11	-	-	-	-	-	3.61
ESE	-	2.64	8.06	1.53	-	-	-	-	12.22
E	-	12.08	9.03	3.33	-	-	-	-	24.44
Calm	4.58	-	-	-	-	-	-	-	4.58
Total (%)	4.58	47.92	35.83	11.67	-	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 30 days

Start Date: Apr. 01, 2010

End Date: Apr. 30, 2010

Comment:

NOTES

CLIENT

Tyhee NWT Corp



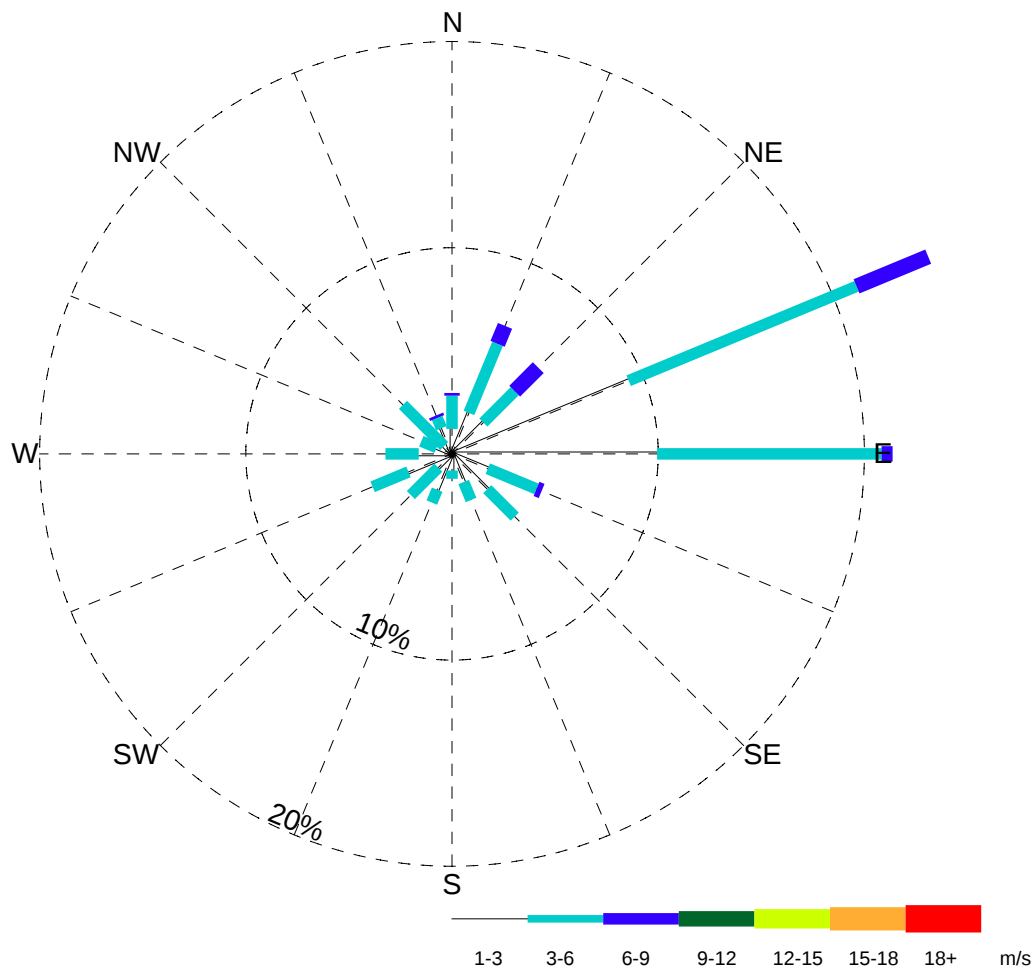
STATUS
ISSUED FOR USE

YELLOWKNIFE GOLD PROJECT 2010 HYDROMETEOROLOGICAL REPORT

Tyhee Station April 2010 Wind Rose

PROJECT NO. Y22101170	DWN RED	CHK JAS	APVD JAS	REV 0
OFFICE EBA-VANC	DATE January 2011			

Figure C-68



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	9.27	11.96	3.76	-	-	-	-	25.00
NE	-	2.15	2.15	1.61	-	-	-	-	5.91
NNE	-	2.15	3.63	0.94	-	-	-	-	6.72
N	-	1.21	1.61	0.13	-	-	-	-	2.96
NNW	-	1.34	0.54	0.13	-	-	-	-	2.02
NW	-	0.54	2.82	-	-	-	-	-	3.36
WNW	-	0.81	0.81	-	-	-	-	-	1.61
W	-	1.61	1.61	-	-	-	-	-	3.23
WSW	-	2.29	1.88	-	-	-	-	-	4.17
SW	-	0.94	1.88	-	-	-	-	-	2.82
SSW	-	1.88	0.67	-	-	-	-	-	2.55
S	-	0.81	0.40	-	-	-	-	-	1.21
SSE	-	1.48	0.94	-	-	-	-	-	2.42
SE	-	2.42	1.88	-	-	-	-	-	4.30
ESE	-	1.88	2.55	0.27	-	-	-	-	4.70
E	-	9.95	10.89	0.54	-	-	-	-	21.37
Calm	5.64	-	-	-	-	-	-	-	5.64
Total (%)	5.64	40.73	46.24	7.39	-	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 31 days

Start Date: May. 01, 2010

End Date: May. 31, 2010

Comment:

NOTES

CLIENT

Tyhee NWT Corp



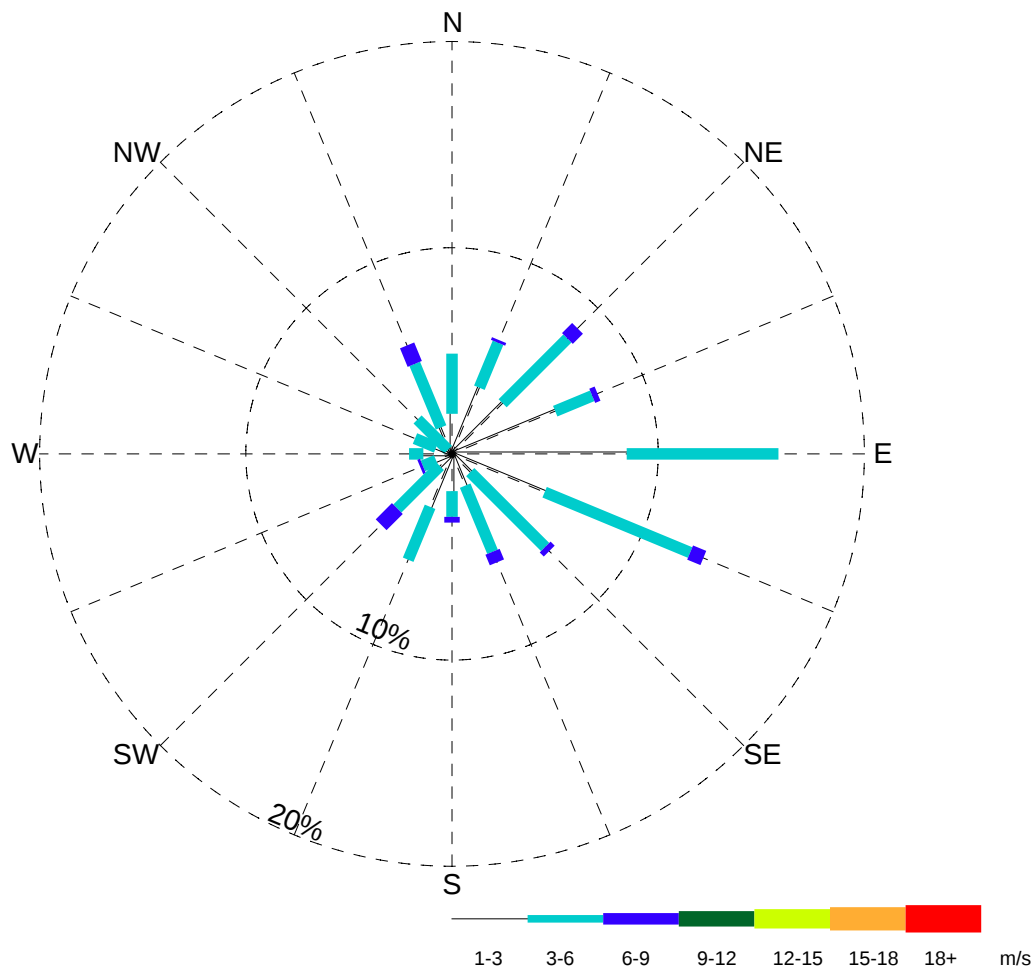
STATUS
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YELLOWKNIFE GOLD PROJECT 2010 HYDROMETEOROLOGICAL REPORT

Tyhee Station May 2010 Wind Rose

PROJECT NO. Y22101170	DWN RED	CHK JAS	APVD JAS	REV 0
OFFICE EBA-VANC	DATE January 2011			

Figure C-69



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	5.42	1.94	0.28	-	-	-	-	7.64
NE	-	3.47	4.44	0.69	-	-	-	-	8.61
NNE	-	3.47	2.36	0.14	-	-	-	-	5.97
N	-	1.94	2.92	-	-	-	-	-	4.86
NNW	-	1.39	3.33	0.97	-	-	-	-	5.69
NW	-	0.28	2.08	-	-	-	-	-	2.36
WNW	-	0.83	1.11	-	-	-	-	-	1.94
W	-	1.39	0.69	-	-	-	-	-	2.08
WSW	-	0.83	0.69	0.14	-	-	-	-	1.67
SW	-	0.83	2.92	1.11	-	-	-	-	4.86
SSW	-	2.78	2.78	-	-	-	-	-	5.56
S	-	1.81	1.25	0.28	-	-	-	-	3.33
SSE	-	1.67	3.47	0.56	-	-	-	-	5.69
SE	-	1.25	5.14	0.28	-	-	-	-	6.67
ESE	-	4.86	7.64	0.69	-	-	-	-	13.19
E	-	8.47	7.36	-	-	-	-	-	15.83
Calm	4.03	-	-	-	-	-	-	-	4.03
Total (%)	4.03	40.69	50.14	5.14	-	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 30 days

Start Date: Jun. 01, 2010

End Date: Jun. 30, 2010

Comment:

NOTES

CLIENT

Tyhee NWT Corp



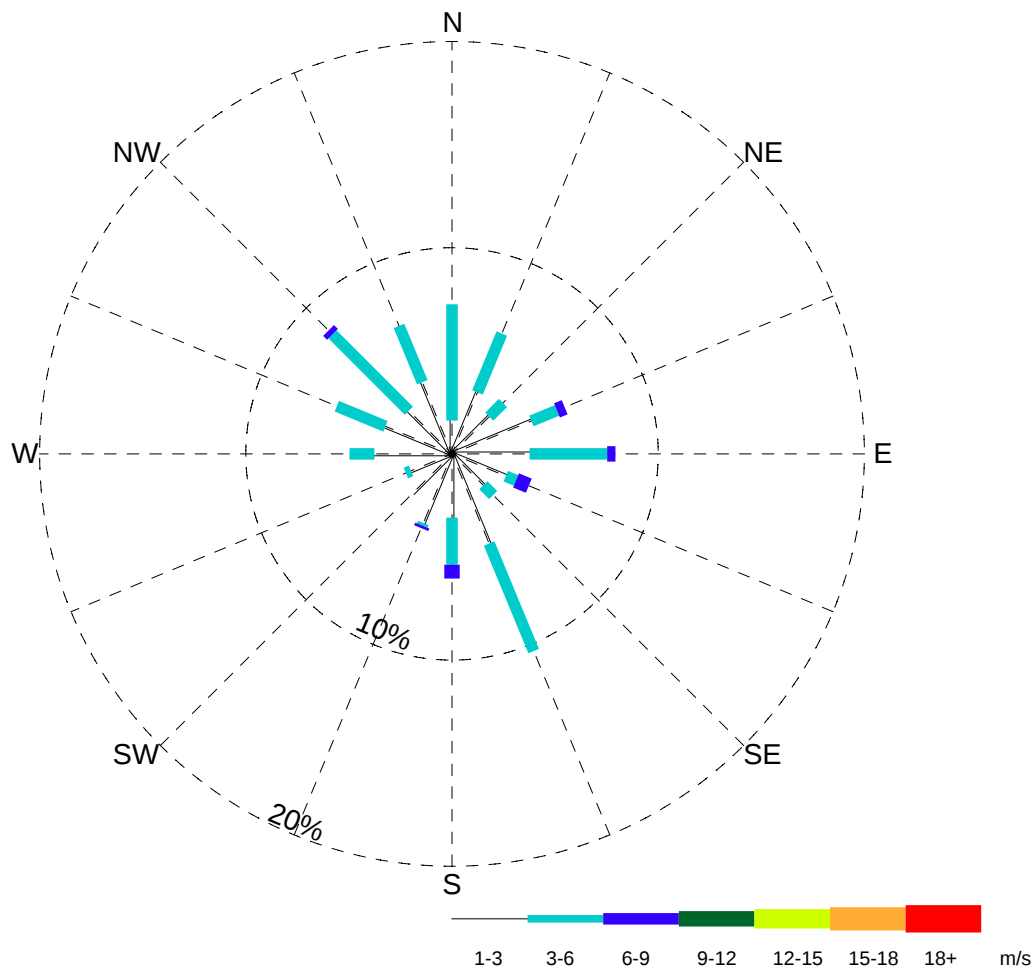
STATUS
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YELLOWKNIFE GOLD PROJECT 2010 HYDROMETEOROLOGICAL REPORT

Tyhee Station June 2010 Wind Rose

PROJECT NO. Y22101170	DWN RED	CHK JAS	APVD JAS	REV 0
OFFICE EBA-VANC	DATE January 2011			

Figure C-70



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	4.17	1.34	0.40	-	-	-	-	5.91
NE	-	2.55	0.94	-	-	-	-	-	3.49
NNE	-	3.23	3.09	-	-	-	-	-	6.32
N	-	1.61	5.64	-	-	-	-	-	7.26
NNW	-	3.76	2.96	-	-	-	-	-	6.72
NW	-	2.96	5.24	0.27	-	-	-	-	8.47
WNW	-	3.49	2.55	-	-	-	-	-	6.05
W	-	3.76	1.21	-	-	-	-	-	4.97
WSW	-	2.15	0.27	-	-	-	-	-	2.42
SW	-	2.69	-	-	-	-	-	-	2.69
SSW	-	3.63	0.13	0.13	-	-	-	-	3.90
S	-	3.09	2.29	0.67	-	-	-	-	6.05
SSE	-	4.70	5.64	-	-	-	-	-	10.35
SE	-	2.15	0.67	-	-	-	-	-	2.82
ESE	-	2.82	0.54	0.67	-	-	-	-	4.03
E	-	3.76	3.76	0.40	-	-	-	-	7.93
Calm	10.62	-	-	-	-	-	-	-	10.62
Total (%)	10.62	50.54	36.29	2.55	-	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 31 days

Start Date: Jul. 01, 2010

End Date: Jul. 31, 2010

Comment:

NOTES

CLIENT

Tyhee NWT Corp



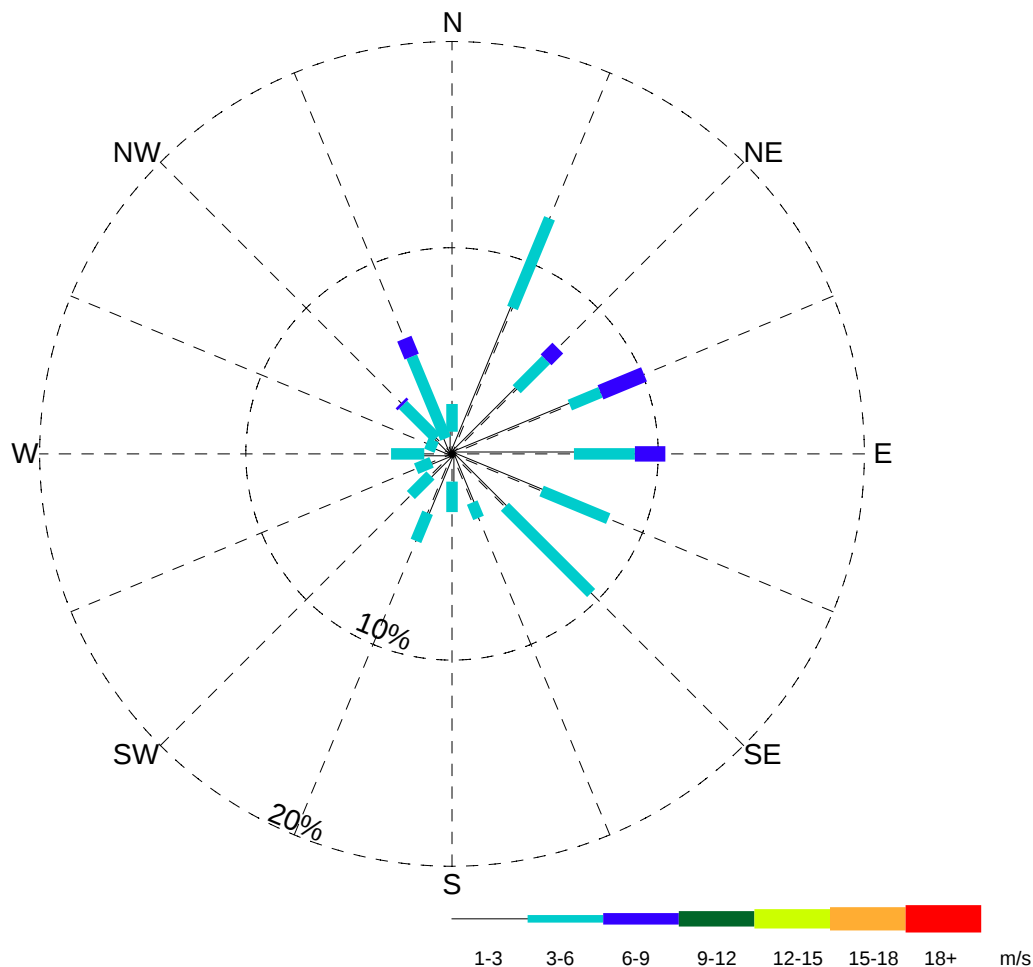
STATUS
ISSUED FOR USE

YELLOWKNIFE GOLD PROJECT 2010 HYDROMETEOROLOGICAL REPORT

Tyhee Station July 2010 Wind Rose

PROJECT NO. Y22101170	DWN RED	CHK JAS	APVD JAS	REV 0
OFFICE EBA-VANC	DATE January 2011			

Figure C-71



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	6.18	1.61	2.29	-	-	-	-	10.08
NE	-	4.43	2.02	0.81	-	-	-	-	7.26
NNE	-	7.66	4.70	-	-	-	-	-	12.37
N	-	1.08	1.34	-	-	-	-	-	2.42
NNW	-	0.81	4.30	0.94	-	-	-	-	6.05
NW	-	1.08	2.29	0.13	-	-	-	-	3.49
WNW	-	0.81	0.54	-	-	-	-	-	1.34
W	-	1.34	1.61	-	-	-	-	-	2.96
WSW	-	1.08	0.81	-	-	-	-	-	1.88
SW	-	1.48	1.34	-	-	-	-	-	2.82
SSW	-	3.09	1.48	-	-	-	-	-	4.57
S	-	1.34	1.48	-	-	-	-	-	2.82
SSE	-	2.55	0.81	-	-	-	-	-	3.36
SE	-	3.63	5.91	-	-	-	-	-	9.54
ESE	-	4.70	3.49	-	-	-	-	-	8.20
E	-	5.91	2.96	1.48	-	-	-	-	10.35
Calm	10.48	-	-	-	-	-	-	-	10.48
Total (%)	10.48	47.18	36.69	5.64	-	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 31 days

Start Date: Aug. 01, 2010

End Date: Aug. 31, 2010

Comment:

NOTES

CLIENT

Tyhee NWT Corp



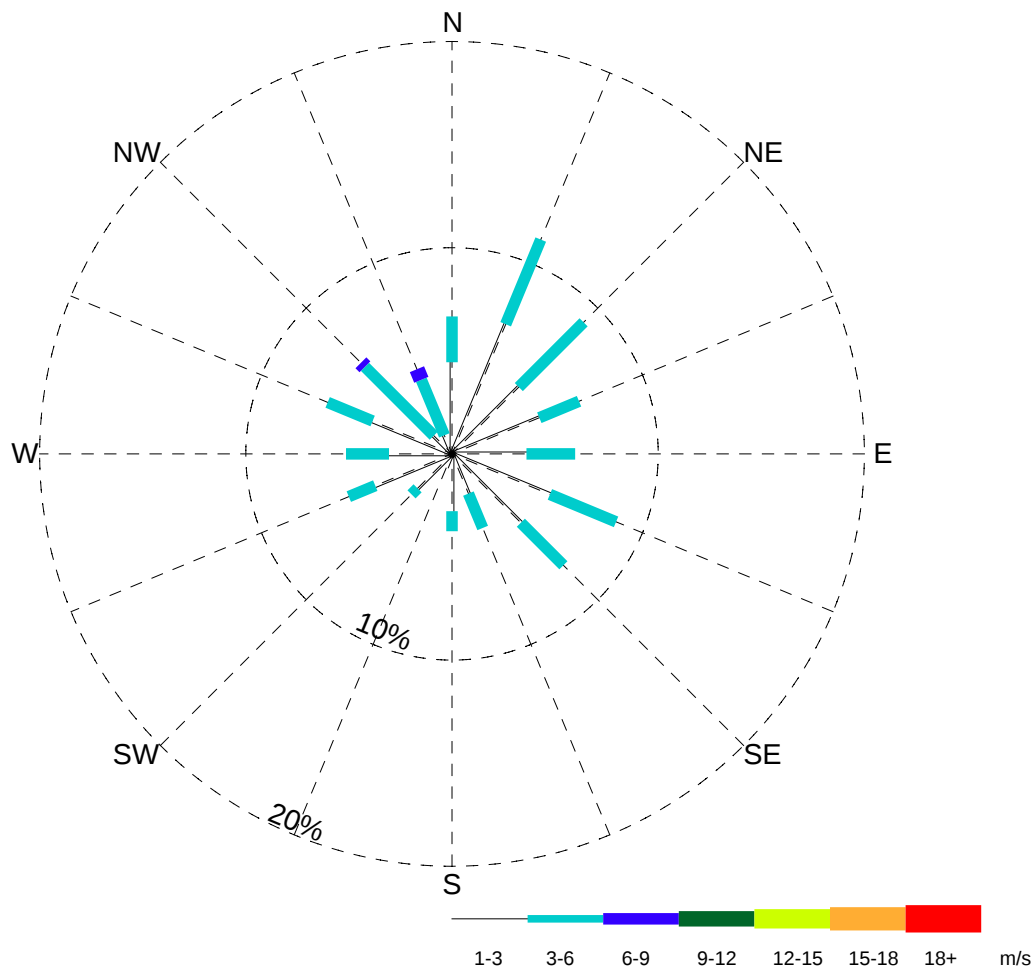
STATUS
ISSUED FOR USE

YELLOWKNIFE GOLD PROJECT 2010 HYDROMETEOROLOGICAL REPORT

Tyhee Station August 2010 Wind Rose

PROJECT NO. Y22101170	DWN RED	CHK JAS	APVD JAS	REV 0
OFFICE EBA-VANC	DATE January 2011			

Figure C-72



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	4.58	2.08	-	-	-	-	-	6.67
NE	-	4.58	4.44	-	-	-	-	-	9.03
NNE	-	6.81	4.44	-	-	-	-	-	11.25
N	-	4.44	2.22	-	-	-	-	-	6.67
NNW	-	0.97	2.92	0.56	-	-	-	-	4.44
NW	-	1.25	4.72	0.28	-	-	-	-	6.25
WNW	-	4.17	2.36	-	-	-	-	-	6.53
W	-	3.06	2.08	-	-	-	-	-	5.14
WSW	-	4.03	1.39	-	-	-	-	-	5.42
SW	-	2.36	0.42	-	-	-	-	-	2.78
SSW	-	0.69	-	-	-	-	-	-	0.69
S	-	2.78	0.97	-	-	-	-	-	3.75
SSE	-	2.08	1.81	-	-	-	-	-	3.89
SE	-	4.72	2.92	-	-	-	-	-	7.64
ESE	-	5.14	3.47	-	-	-	-	-	8.61
E	-	3.61	2.36	-	-	-	-	-	5.97
Calm	5.28	-	-	-	-	-	-	-	5.28
Total (%)	5.28	55.28	38.61	0.83	-	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 30 days

Start Date: Sep. 01, 2010

End Date: Sep. 30, 2010

Comment:

NOTES

CLIENT

Tyhee NWT Corp



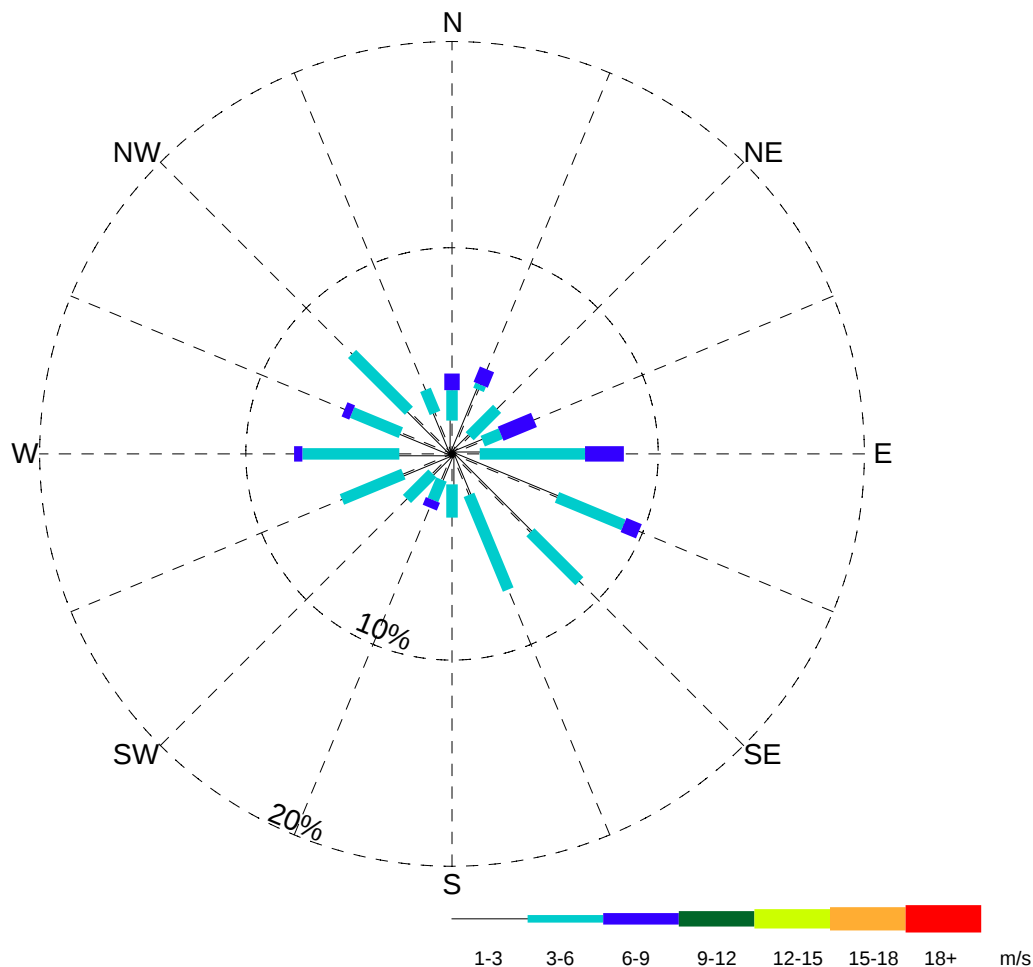
STATUS
ISSUED FOR USE

YELLOWKNIFE GOLD PROJECT 2010 HYDROMETEOROLOGICAL REPORT

Tyhee Station September 2010 Wind Rose

PROJECT NO. Y22101170	DWN RED	CHK JAS	APVD JAS	REV 0
OFFICE EBA-VANC	DATE January 2011			

Figure C-73



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	1.61	0.94	1.75	-	-	-	-	4.30
NE	-	1.21	1.88	-	-	-	-	-	3.09
NNE	-	3.36	0.27	0.81	-	-	-	-	4.43
N	-	1.61	1.48	0.81	-	-	-	-	3.90
NNW	-	2.15	1.21	-	-	-	-	-	3.36
NW	-	2.96	3.90	-	-	-	-	-	6.86
WNW	-	2.69	2.55	0.40	-	-	-	-	5.64
W	-	2.55	4.70	0.40	-	-	-	-	7.66
WSW	-	2.55	3.23	-	-	-	-	-	5.78
SW	-	1.34	1.75	-	-	-	-	-	3.09
SSW	-	1.34	1.08	0.40	-	-	-	-	2.82
S	-	1.48	1.61	-	-	-	-	-	3.09
SSE	-	2.15	4.97	-	-	-	-	-	7.12
SE	-	5.38	3.36	-	-	-	-	-	8.74
ESE	-	5.51	3.49	0.81	-	-	-	-	9.81
E	-	1.34	5.11	1.88	-	-	-	-	8.33
Calm	11.96	-	-	-	-	-	-	-	11.96
Total (%)	11.96	39.25	41.53	7.26	-	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 31 days

Start Date: Oct. 01, 2010

End Date: Oct. 31, 2010

Comment:

NOTES

CLIENT

Tyhee NWT Corp



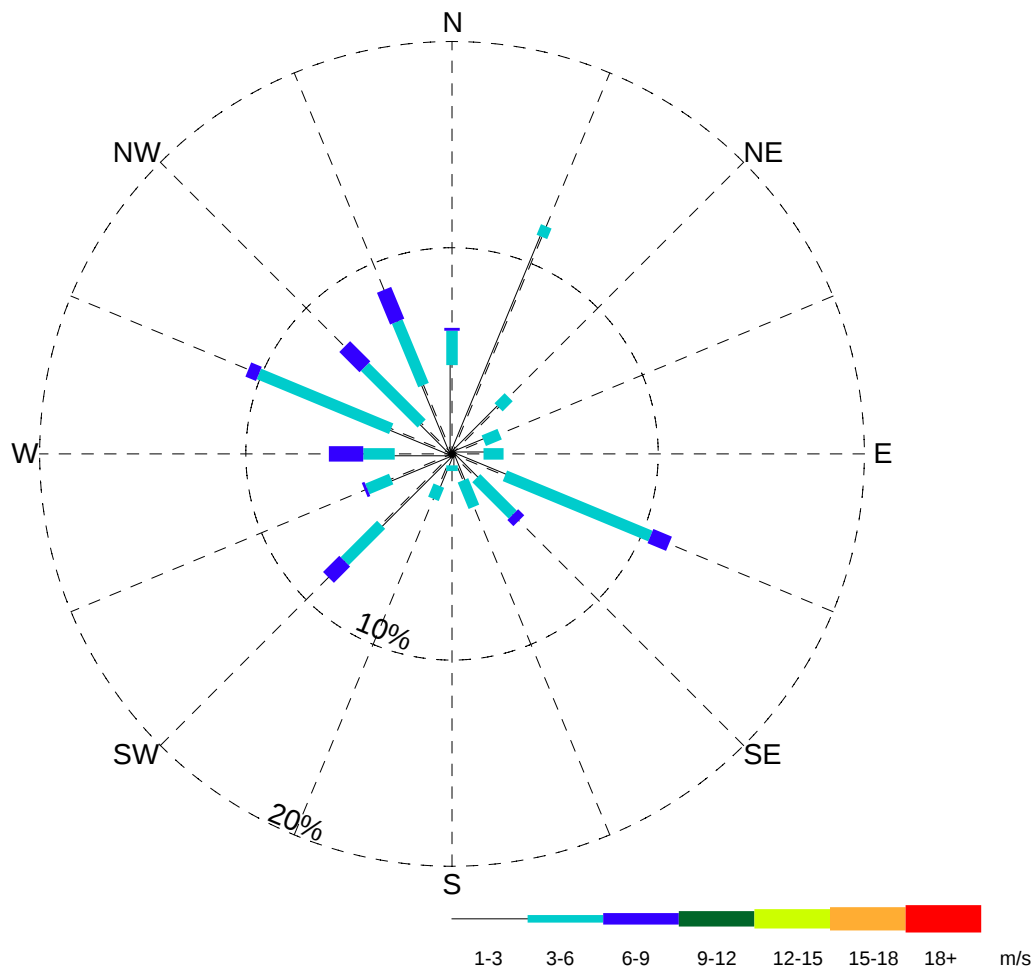
STATUS
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YELLOWKNIFE GOLD PROJECT 2010 HYDROMETEOROLOGICAL REPORT

Tyhee Station October 2010 Wind Rose

PROJECT NO. Y22101170	DWN RED	CHK JAS	APVD JAS	REV 0
OFFICE EBA-VANC	DATE January 2011			

Figure C-74



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	1.67	0.83	-	-	-	-	-	2.50
NE	-	3.19	0.69	-	-	-	-	-	3.89
NNE	-	11.39	0.56	-	-	-	-	-	11.94
N	-	4.31	1.67	0.14	-	-	-	-	6.11
NNW	-	3.61	3.33	1.67	-	-	-	-	8.61
NW	-	2.08	3.89	1.39	-	-	-	-	7.36
WNW	-	3.19	6.94	0.56	-	-	-	-	10.69
W	-	2.78	1.53	1.67	-	-	-	-	5.97
WSW	-	3.19	1.25	0.14	-	-	-	-	4.58
SW	-	4.86	2.50	1.11	-	-	-	-	8.47
SSW	-	1.67	0.69	-	-	-	-	-	2.36
S	-	0.56	0.28	-	-	-	-	-	0.83
SSE	-	1.39	1.39	-	-	-	-	-	2.78
SE	-	1.67	2.50	0.42	-	-	-	-	4.58
ESE	-	2.78	7.64	0.97	-	-	-	-	11.39
E	-	1.53	0.97	-	-	-	-	-	2.50
Calm	5.42	-	-	-	-	-	-	-	5.42
Total (%)	5.42	49.86	36.67	8.06	-	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 30 days

Start Date: Nov. 01, 2010

End Date: Nov. 30, 2010

Comment:

NOTES

CLIENT

Tyhee NWT Corp



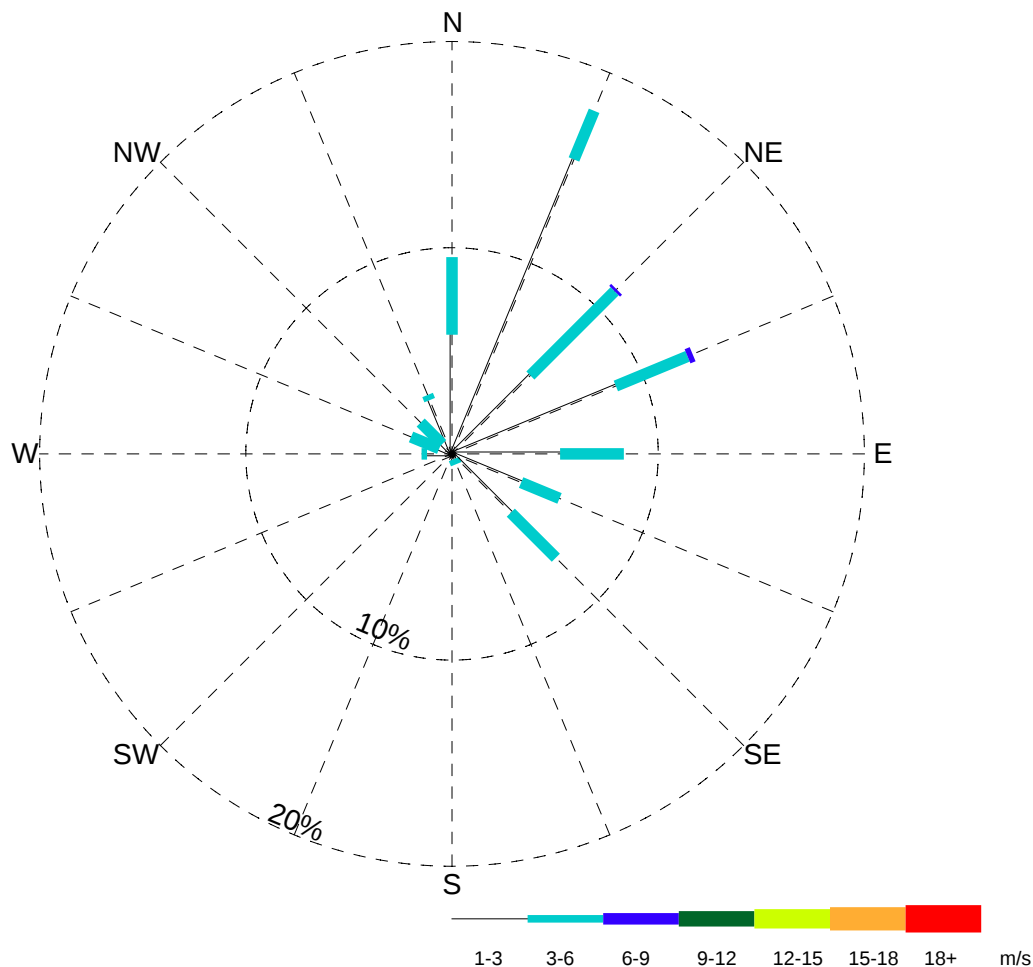
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YELLOWKNIFE GOLD PROJECT 2010 HYDROMETEOROLOGICAL REPORT

Tyhee Station November 2010 Wind Rose

PROJECT NO. Y22101170	DWN RED	CHK JAS	APVD JAS	REV 0
OFFICE EBA-VANC	DATE January 2011			

Figure C-75



Wind Speed & Direction Frequency Distribution Table

Direction	Percent Occurrence (%)								Total (%)
	0-1 m/s	1-3 m/s	3-6 m/s	6-9 m/s	9-12 m/s	12-15 m/s	15-18 m/s	18+ m/s	
ENE	-	8.60	3.76	0.27	-	-	-	-	12.63
NE	-	5.38	5.78	0.13	-	-	-	-	11.29
NNE	-	15.46	2.55	-	-	-	-	-	18.01
N	-	5.78	3.76	-	-	-	-	-	9.54
NNW	-	2.82	0.27	-	-	-	-	-	3.09
NW	-	0.67	1.48	-	-	-	-	-	2.15
WNW	-	0.67	1.48	-	-	-	-	-	2.15
W	-	1.21	0.27	-	-	-	-	-	1.48
WSW	-	0.54	-	-	-	-	-	-	0.54
SW	-	0.27	-	-	-	-	-	-	0.27
SSW	-	0.40	-	-	-	-	-	-	0.40
S	-	0.27	-	-	-	-	-	-	0.27
SSE	-	0.27	0.27	-	-	-	-	-	0.54
SE	-	4.03	3.09	-	-	-	-	-	7.12
ESE	-	3.63	2.02	-	-	-	-	-	5.64
E	-	5.24	3.09	-	-	-	-	-	8.33
Calm	16.53	-	-	-	-	-	-	-	16.53
Total (%)	16.53	55.24	27.82	0.40	-	-	-	-	100.00

Station Name: Tyhee

NAD 27 location:

N63° 11' 6.2" W113° 53' 40.2"

Elevation above SL: 300 m

Tower Height: 10 m

Record Length: 31 days

Start Date: Dec. 01, 2010

End Date: Dec. 31, 2010

Comment:

NOTES

CLIENT

Tyhee NWT Corp



STATUS
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YELLOWKNIFE GOLD PROJECT 2010 HYDROMETEOROLOGICAL REPORT

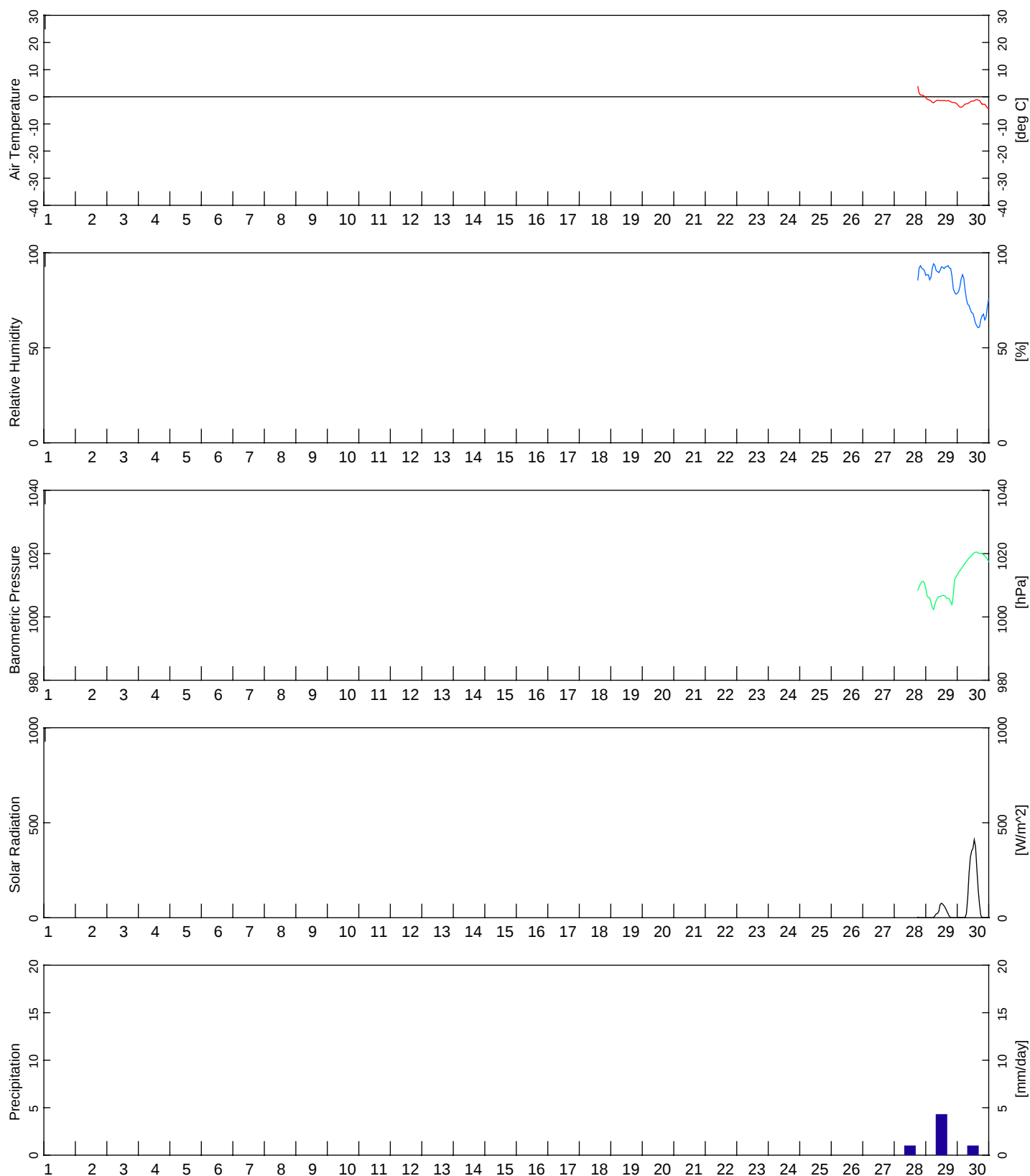
Tyhee Station December 2010 Wind Rose

PROJECT NO. Y22101170	DWN RED	CHK JAS	APVD JAS	REV 0
OFFICE EBA-VANC	DATE January 2011			

Figure C76

APPENDIX D

APPENDIX D SUMMARY OF WEATHER PARAMETERS



NOTES

CLIENT



EBA Engineering Consultants Ltd. 

YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Weather Data
September 2004**

PROJECT NO.
Y22101057

DWN
RED

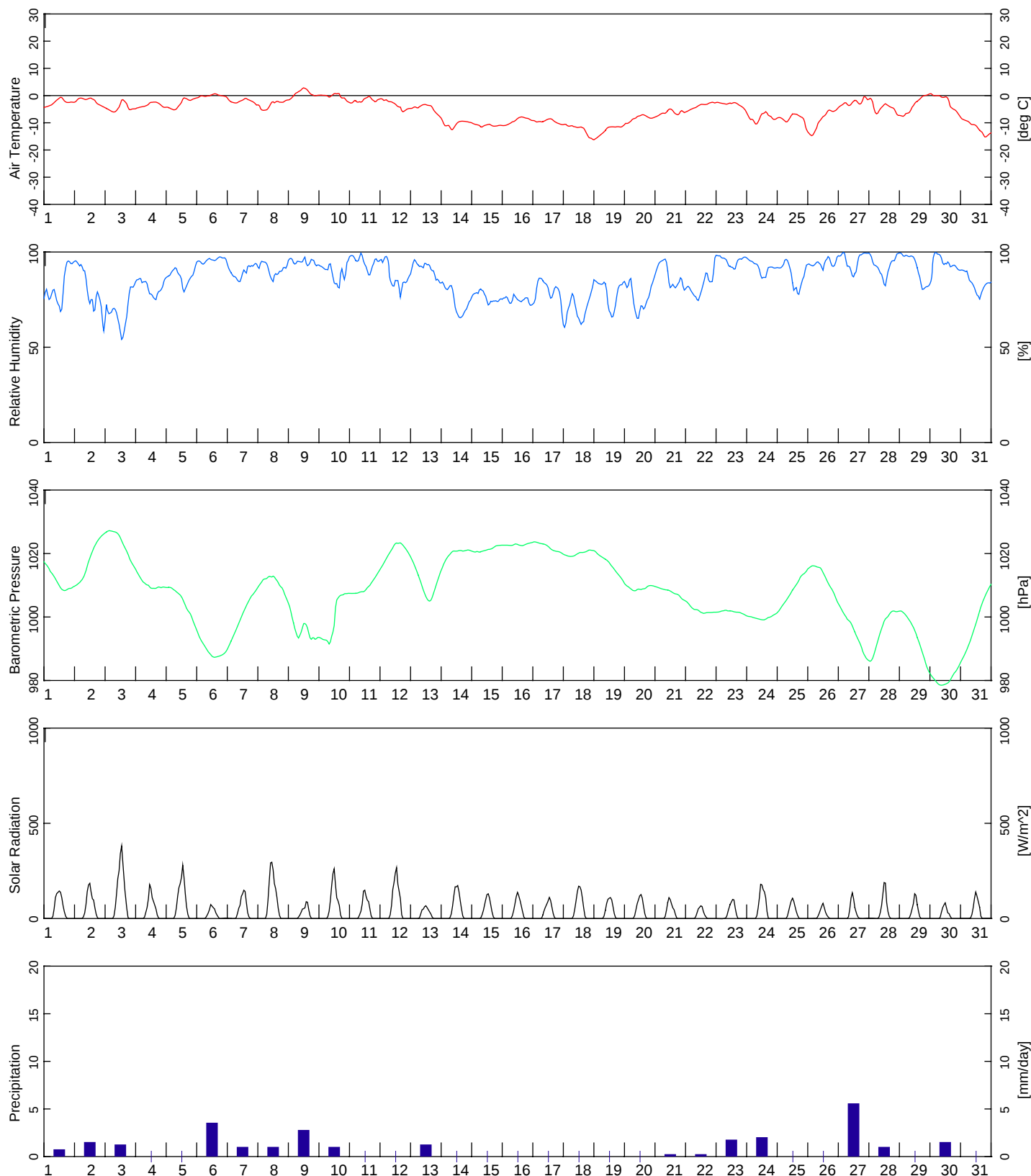
CHK
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REV
0

OFFICE
EBA-VANC

DATE
July 2009

Figure D-01



NOTES

CLIENT



EBA Engineering Consultants Ltd. 

YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Weather Data
October 2004**

PROJECT NO.
Y22101057

DWN
RED

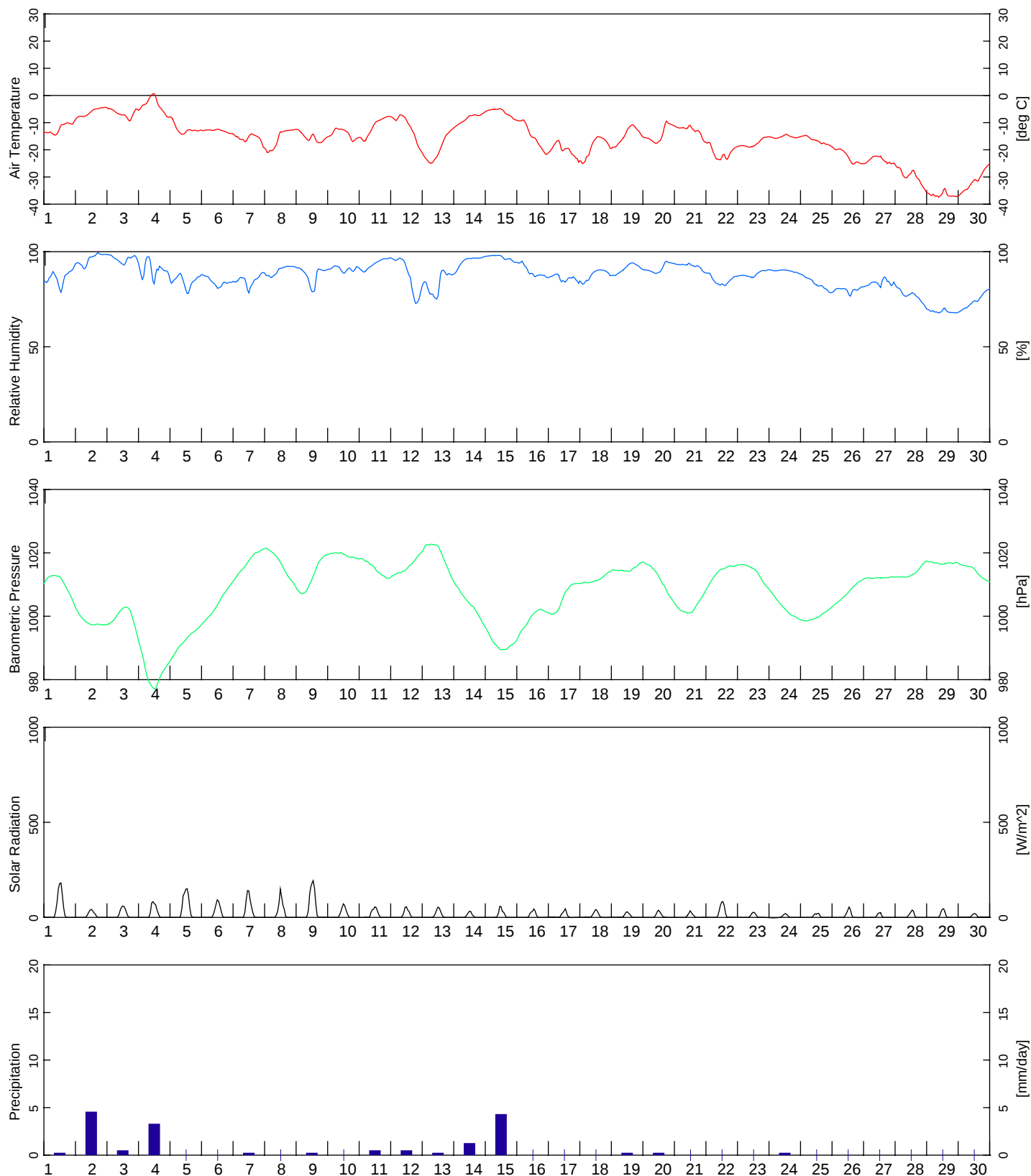
CHK
JAS

REV
0

OFFICE
EBA-VANC

DATE
July 2009

Figure D-02



NOTES

CLIENT



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Consultants Ltd.



YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Weather Data
November 2004**

PROJECT NO.
Y22101057

DWN
RED

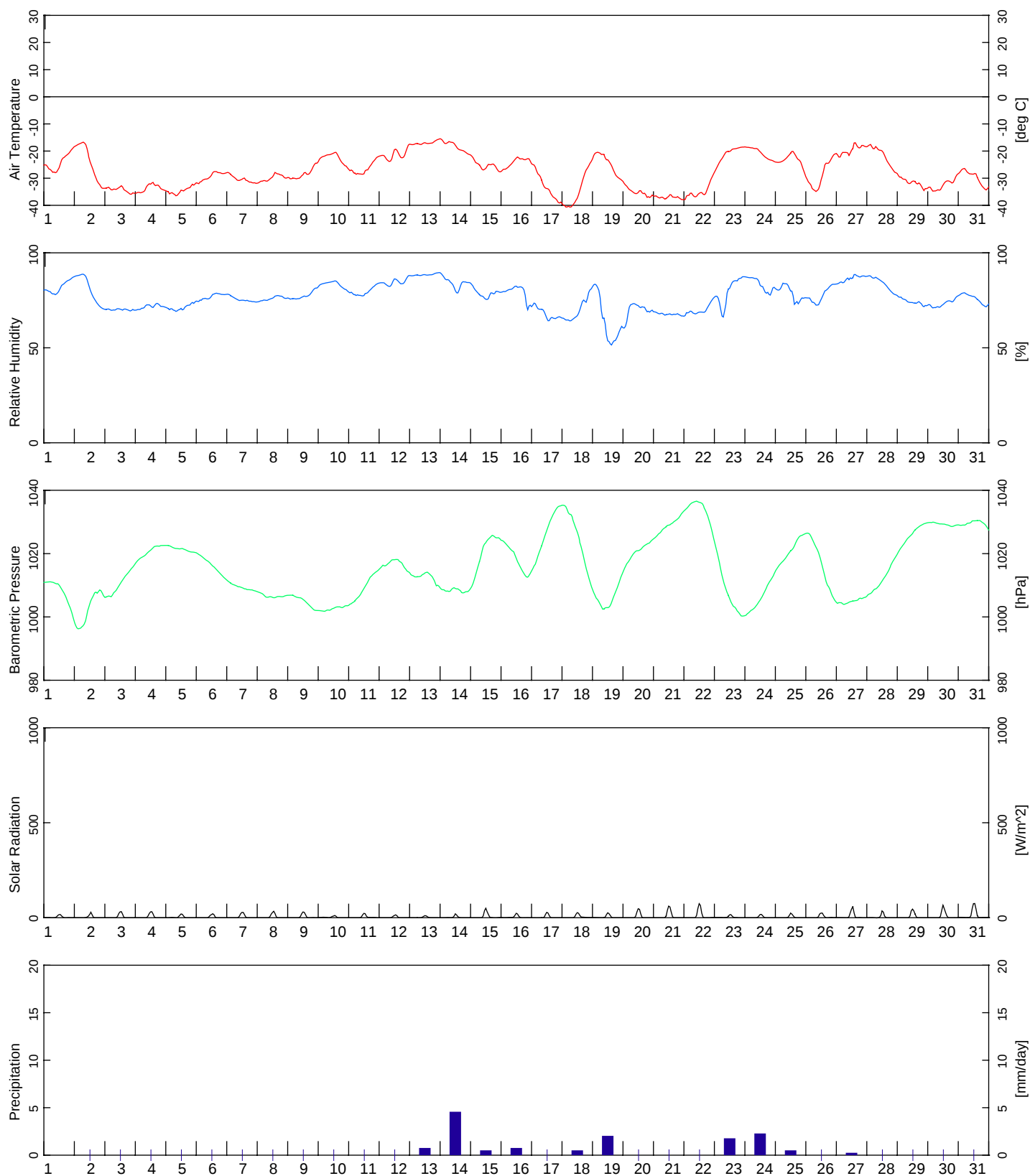
CHK
JAS

REV
0

OFFICE
EBA-VANC

DATE
July 2009

Figure D-03



NOTES

CLIENT



EBA Engineering Consultants Ltd. 

YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Weather Data
December 2004**

PROJECT NO.
Y22101057

DWN
RED

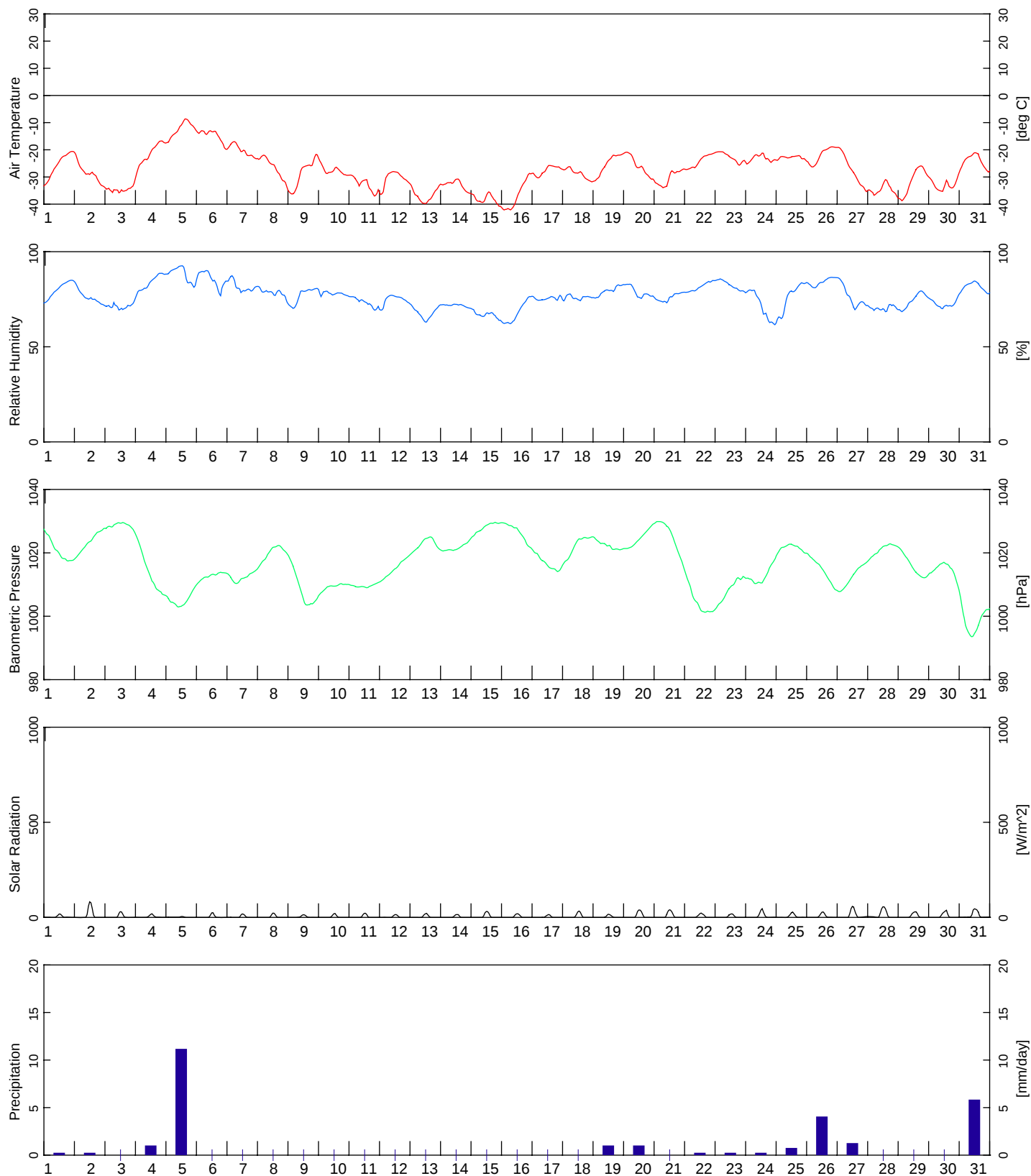
CHK
JAS

REV
0

OFFICE
EBA-VANC

DATE
July 2009

Figure D-04



NOTES

CLIENT



EBA Engineering Consultants Ltd. 

YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Weather Data
January 2005**

PROJECT NO.
Y22101057

DWN
RED

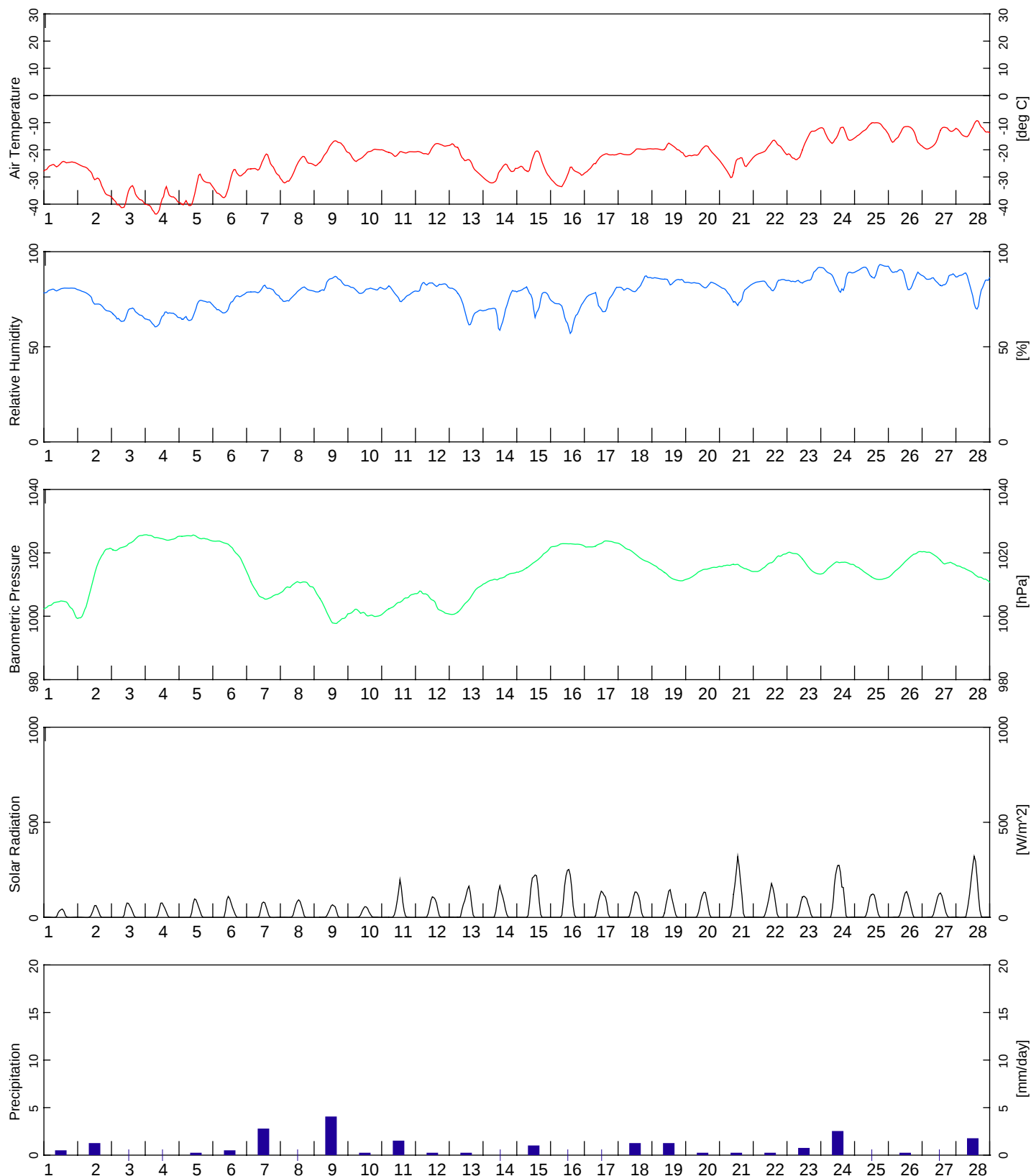
CHK
JAS

REV
0

OFFICE
EBA-VANC

DATE
July 2009

Figure D-05



NOTES

CLIENT



EBA Engineering Consultants Ltd. 

YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Weather Data
February 2005**

PROJECT NO.
Y22101057

DWN
RED

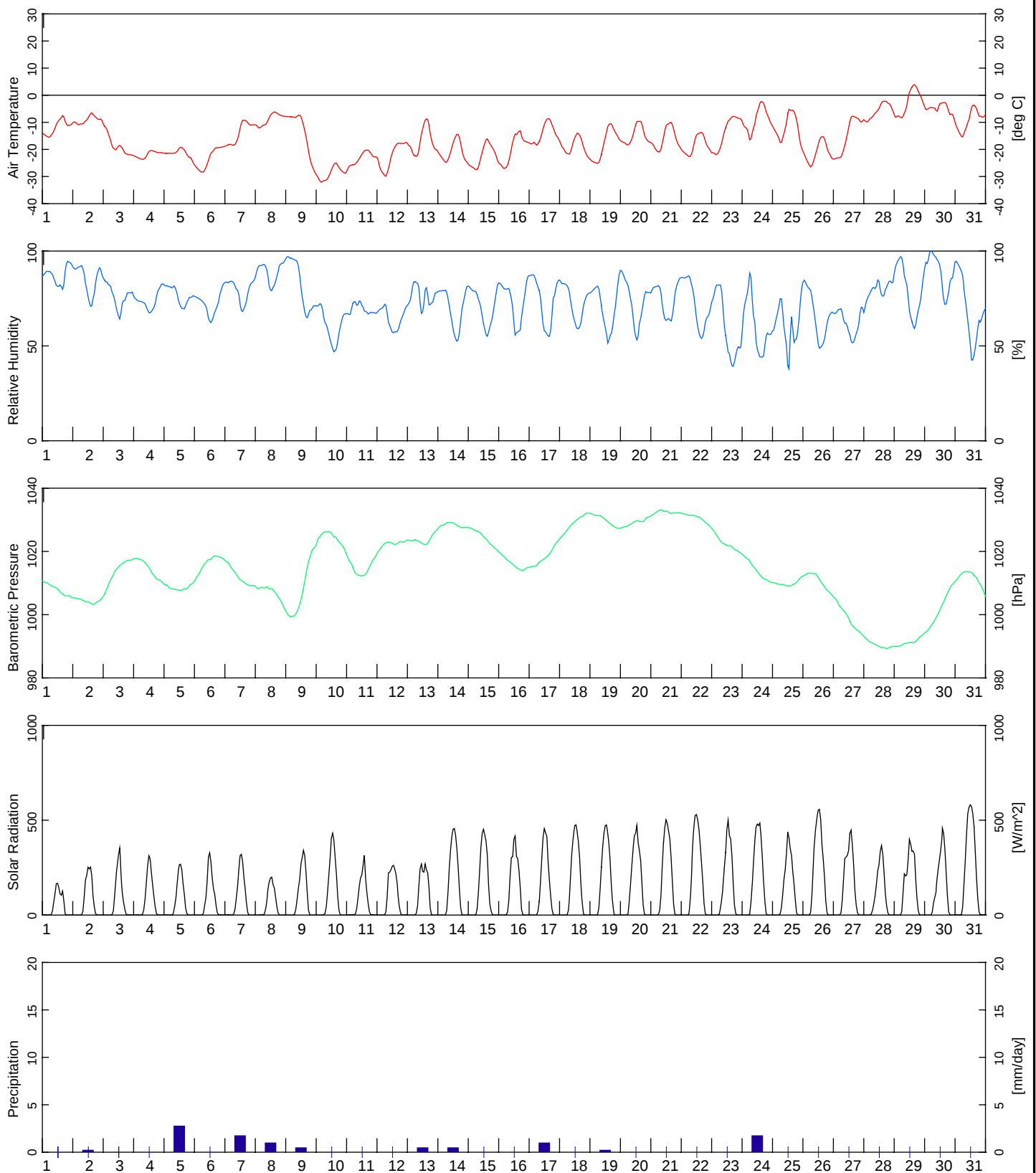
CHK
JAS

REV
0

OFFICE
EBA-VANC

DATE
July 2009

Figure D-06



NOTES

CLIENT



EBA Engineering Consultants Ltd.



YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Weather Data
March 2005**

PROJECT NO.
Y22101057

DWN
RED

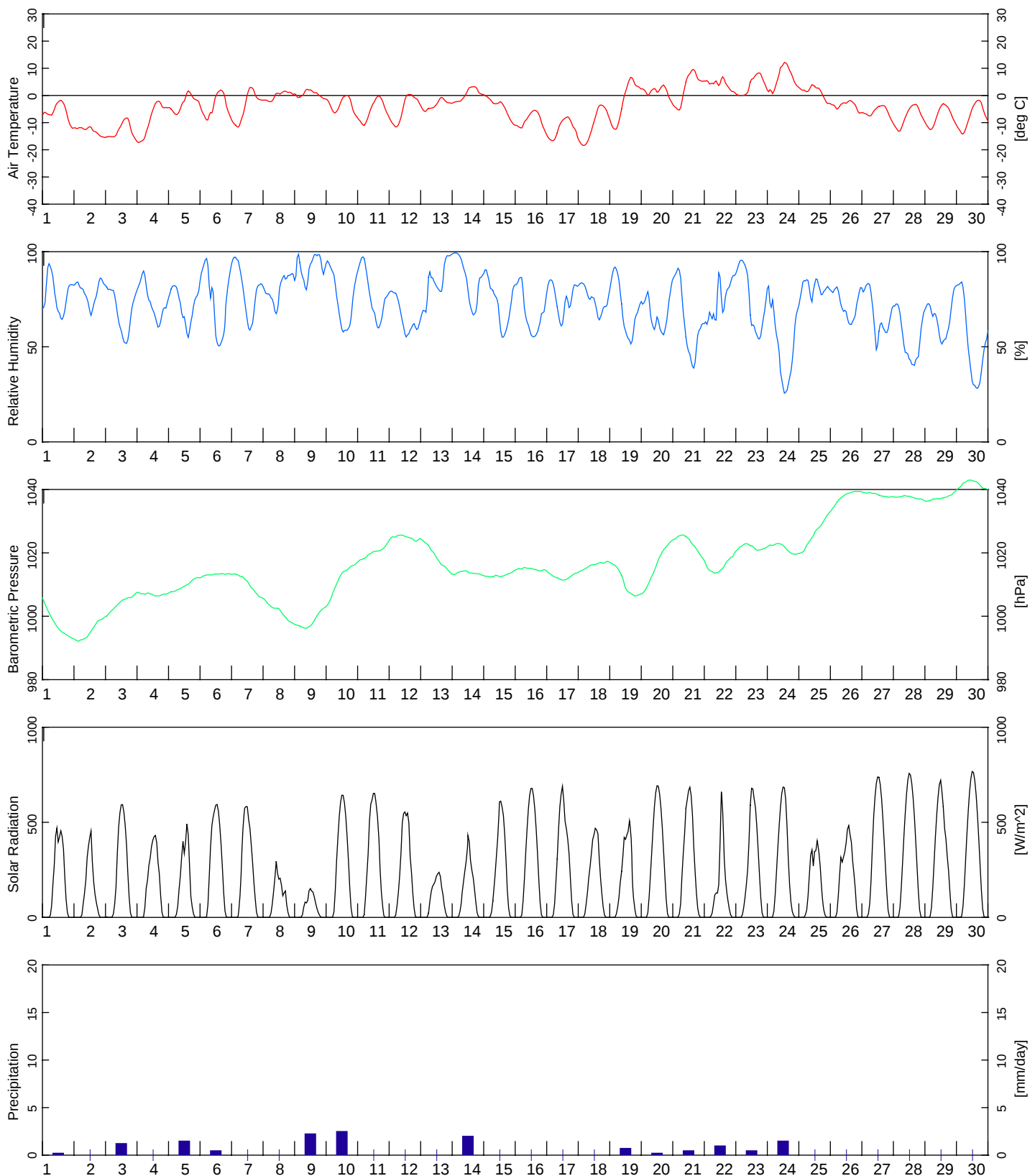
CHK
JAS

REV
0

OFFICE
EBA-VANC

DATE
July 2009

Figure D-07



NOTES

CLIENT



EBA Engineering Consultants Ltd. 

YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Weather Data
April 2005**

PROJECT NO.
Y22101057

DWN
RED

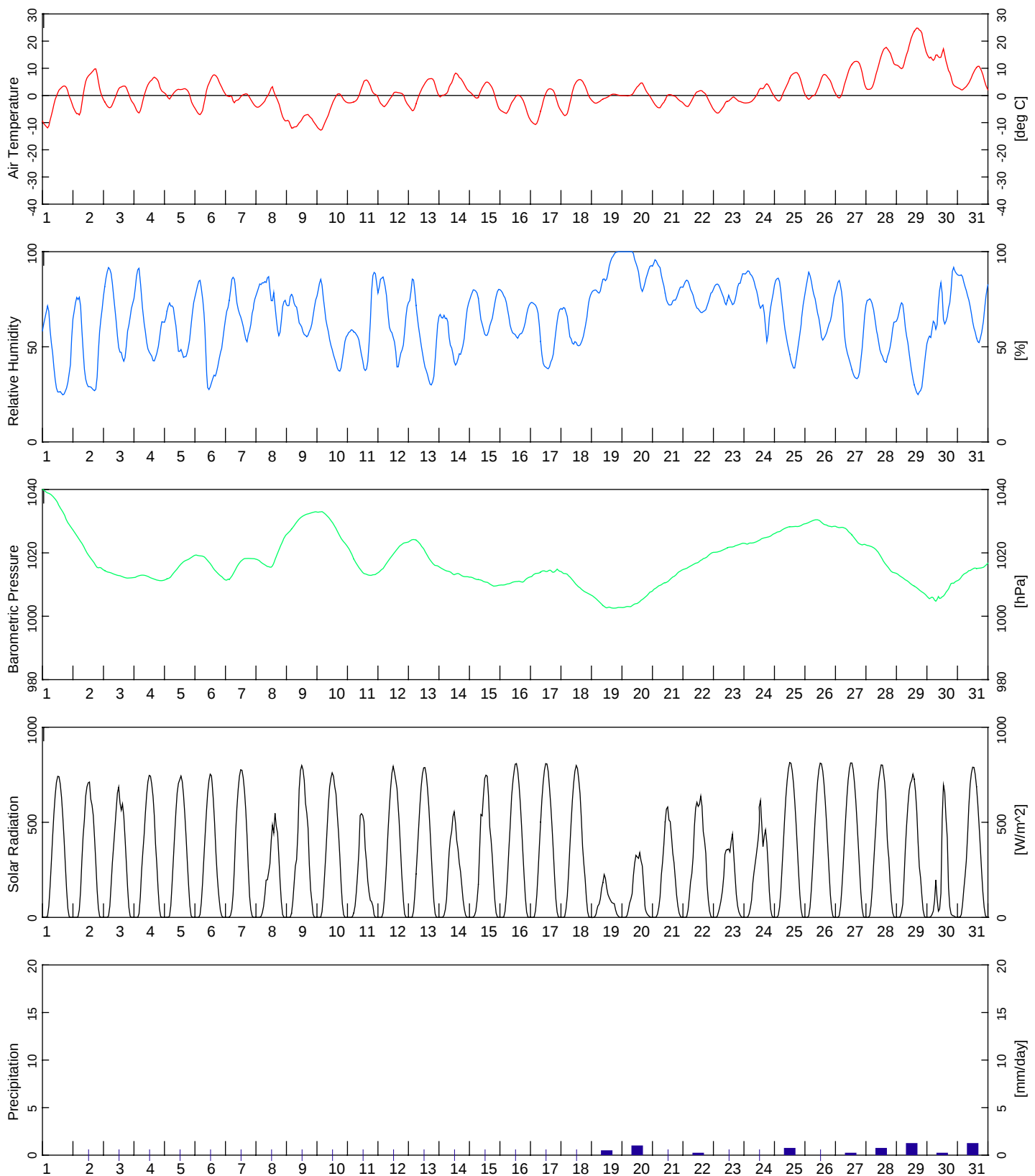
CHK
JAS

REV
0

OFFICE
EBA-VANC

DATE
July 2009

Figure D-08



NOTES

CLIENT



EBA Engineering Consultants Ltd. 

YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Weather Data
May 2005**

PROJECT NO.
Y22101057

DWN
RED

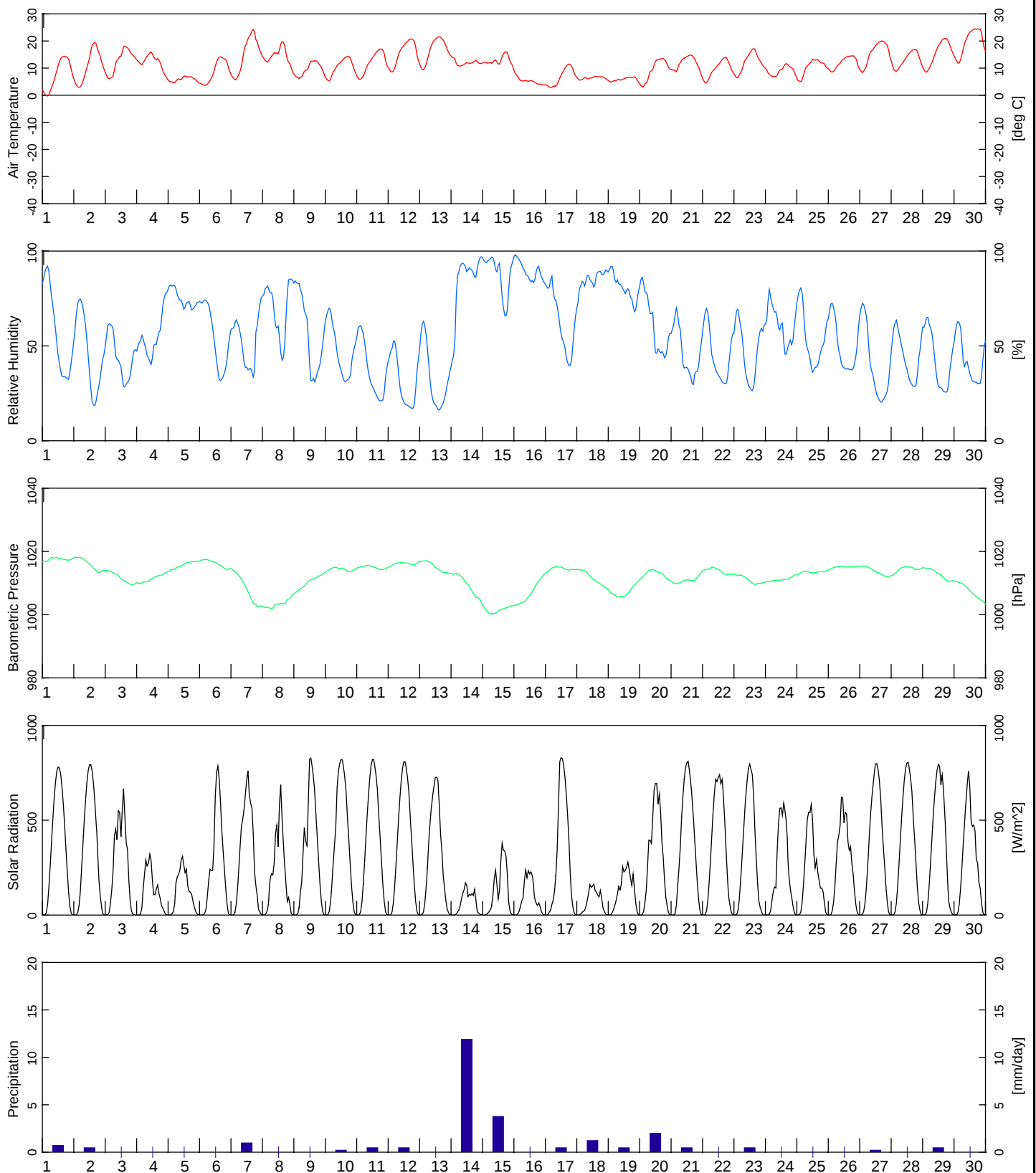
CHK
JAS

REV
0

OFFICE
EBA-VANC

DATE
July 2009

Figure D-09



NOTES

CLIENT



EBA Engineering Consultants Ltd. 

YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Weather Data
June 2005**

PROJECT NO.
Y22101057

DWN
RED

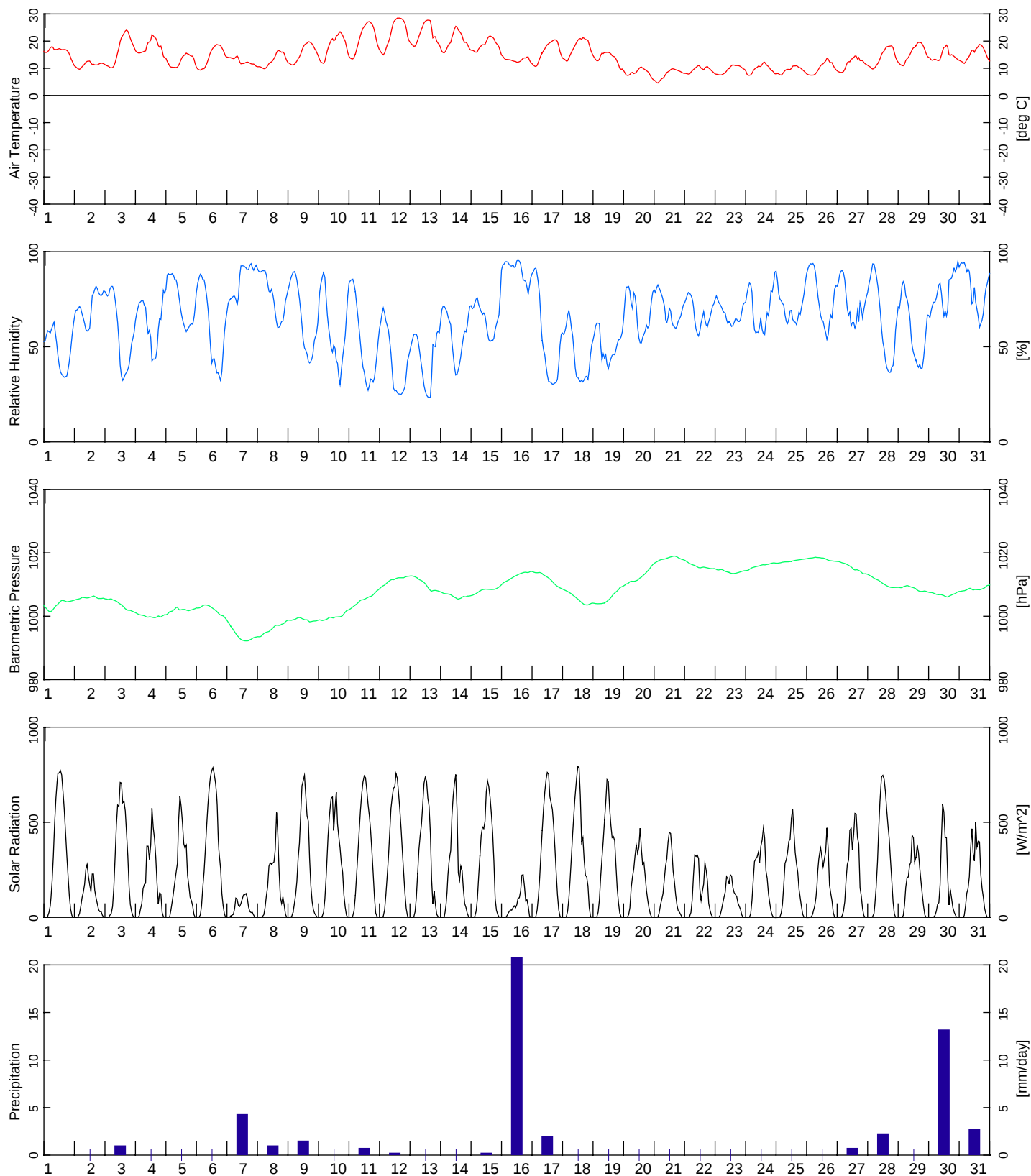
CHK
JAS

REV
0

OFFICE
EBA-VANC

DATE
July 2009

Figure D-10



NOTES

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EBA Engineering Consultants Ltd. 

YELLOWKNIFE GOLD PROJECT 2008 HYDROMETEOROLOGICAL REPORT

**Tyhee Station
Weather Data
July 2005**

PROJECT NO.
Y22101057

DWN
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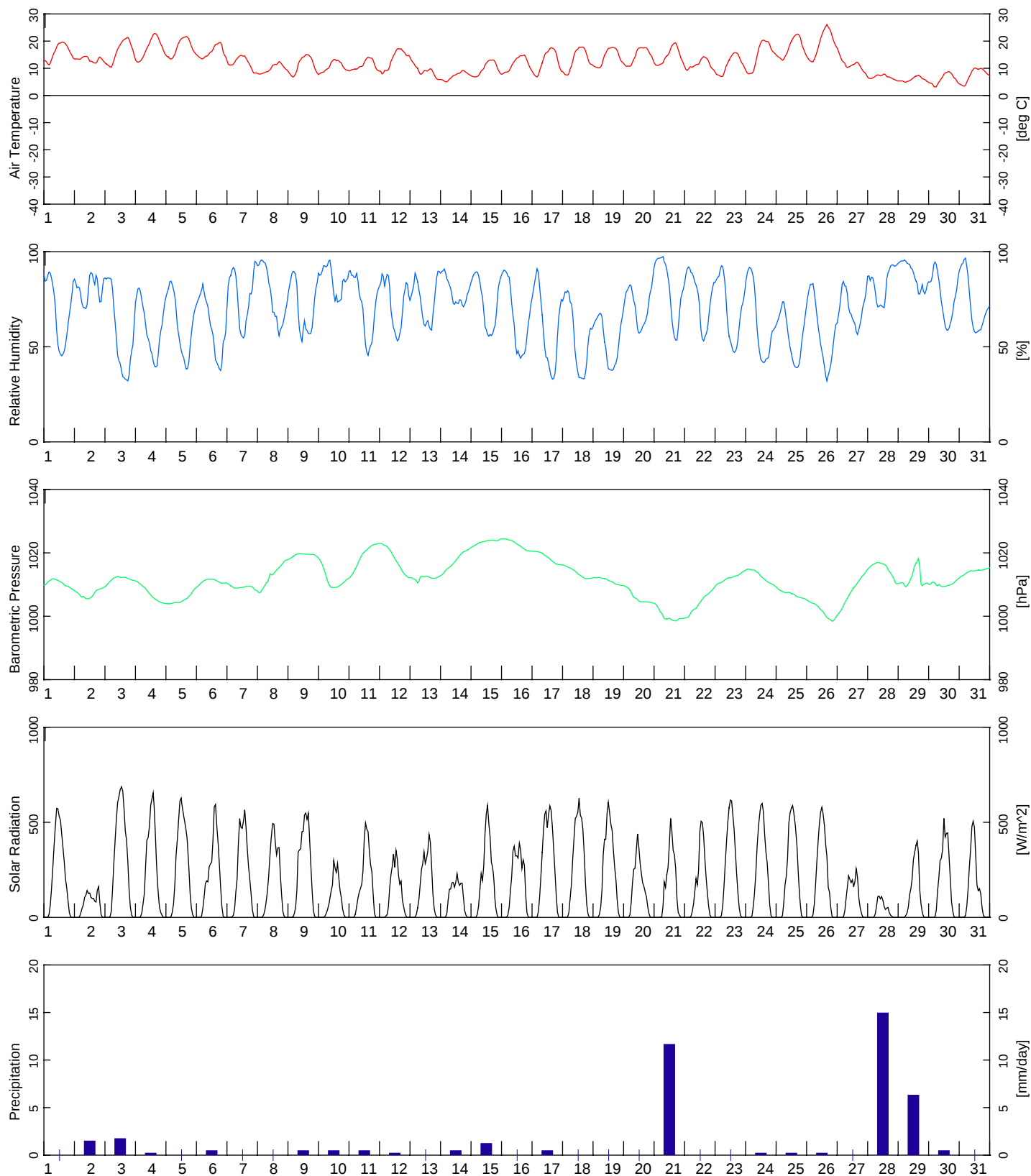
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Figure D-11



NOTES

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Figure D-12