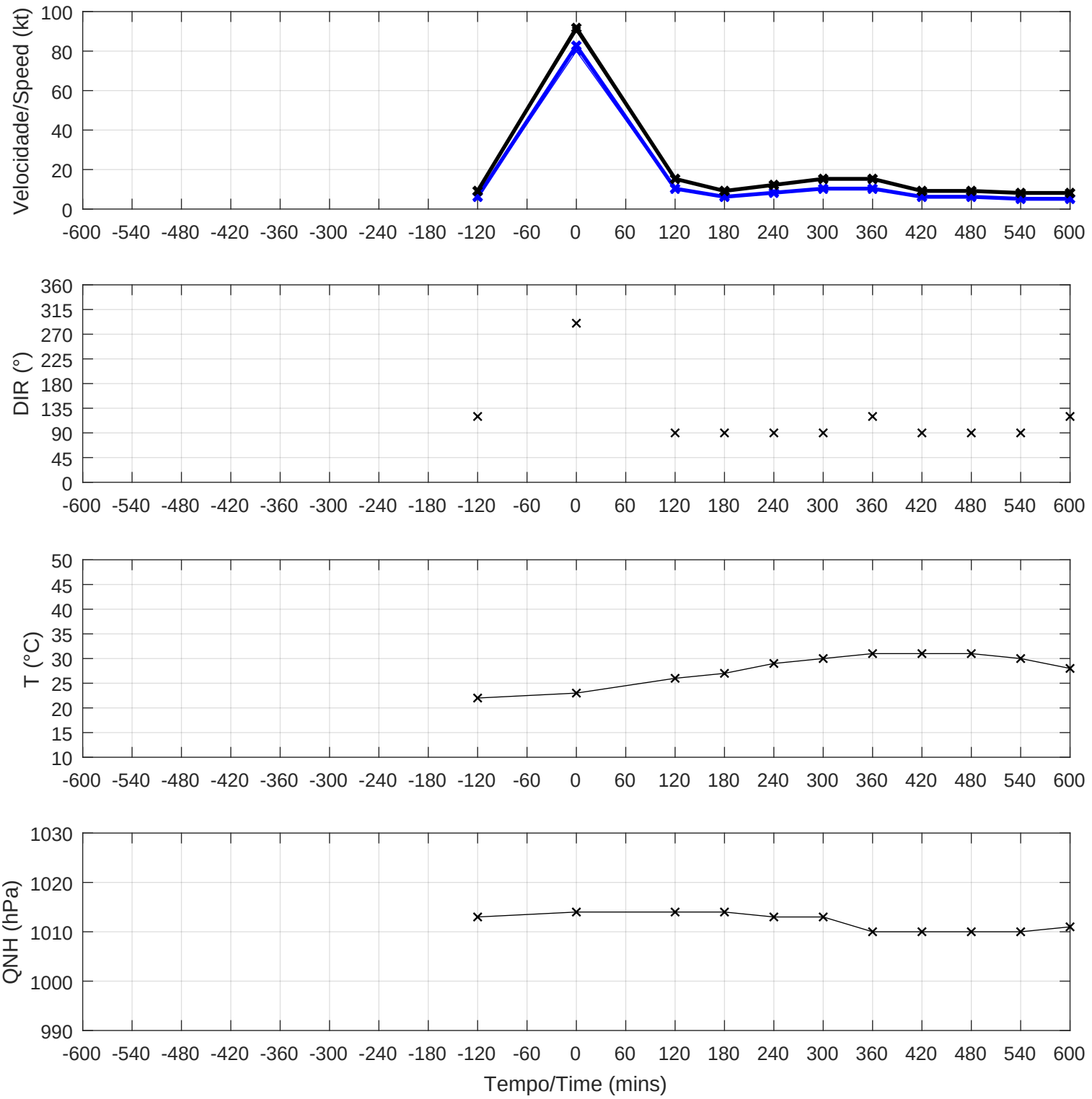
SLPS/85289 EVENTO/EVENT 1 - 13/06/2001, 12:00 UTC (MSS - NCEI/NCDC)

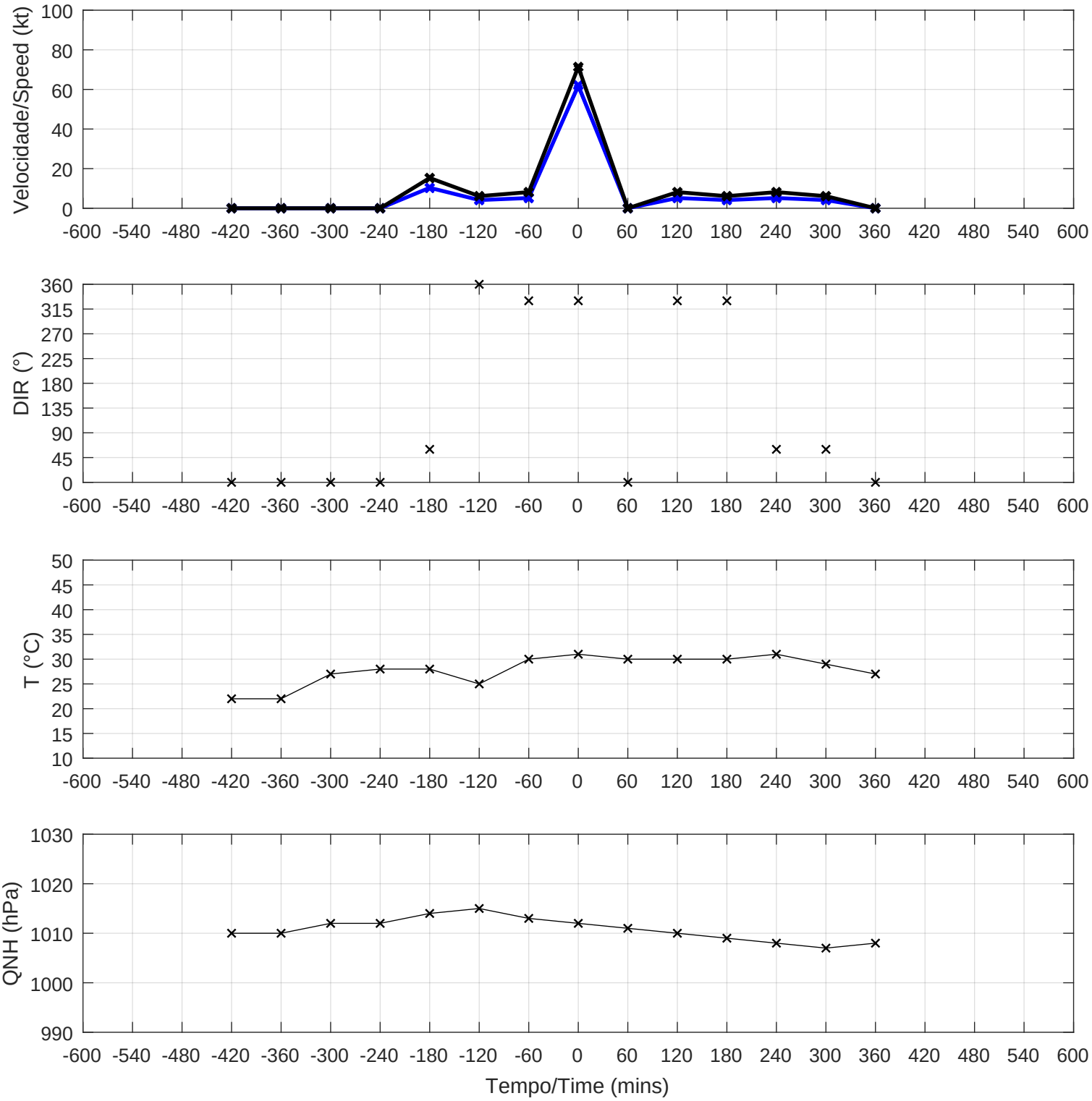
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G* = 90 kt	R_{-6} = [ ]	$T_{med,3}$ = 22.0 °C	DIR = 290°	NÃO/NO	SUSPEITO
V_{obs} = 80 kt	R_{-3} = 10.0	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = 170°		SUSPECT
G_V = [ ]	R_{+3} = 7.5	$\Delta Q_{max,3}$ = 1.0 hPa	$\Delta DIR_{max,+3}$ = 160°		(324)
G_{cor} = 91.7 kt	R_{+6} = 6.8	Δ Grupo/Group = 3	AAXX 13124 85289 32980 32980 10230 20186 39980 40137 52014 333 20220 30/// 59002=		
V_{cor} = 82.7 kt					



Matthew Bruce Vallis (matthewbvallis@gmail.com) Tese de Doutorado/Doctorate Thesis, Porto Alegre: PPGEC/UFRGS, 2019
Modelo Climático para Ventos Extremos no Brasil/Brazilian Extreme Wind Climate

SLPS/85289 EVENTO/EVENT 2 - 22/01/1999, 17:00 UTC (MSS - WUNDERGROUND)

Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G* = 70 kt	R_{-6} = 14.5	$T_{med,3}$ = 27.7 °C	DIR = 330°	NÃO/NO	SUSPEITO
V_{obs} = 60 kt	R_{-3} = 7.2	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = 90°		SUSPECT
G_V = [ ]	R_{+3} = 15.0	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 0°		(324)
G_{cor} = 71.3 kt	R_{+6} = 15.0	Δ Grupo/Group = 3	METAR SLPS 221700Z 33060KT 9999 SCT017 BKN020 31/26 Q1012		
V_{cor} = 62.0 kt					



Matthew Bruce Vallis (matthewbvallis@gmail.com) Tese de Doutorado/Doctorate Thesis, Porto Alegre: PPGEC/UFRGS, 2019
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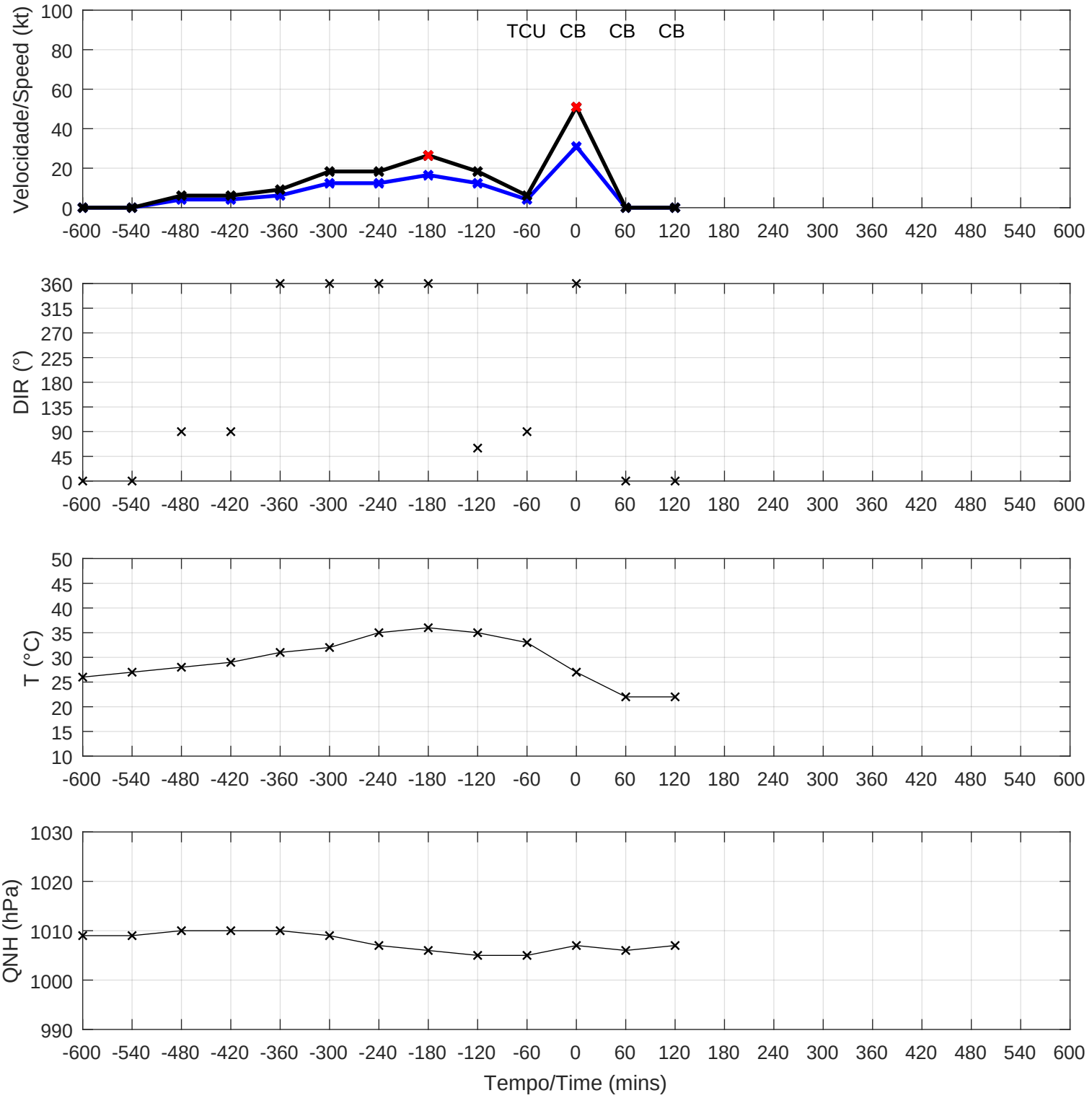
SLPS/85289 EVENTO/EVENT 3 - 07/09/2003, 21:00 UTC (MSS - REDEMET)

Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G_{obs} = 50 kt	R_{-6} = 3.2	$T_{med,3}$ = 34.7 °C	DIR = 360°	NÃO/NO	NÃO-SINÓTICO
V_{obs} = 30 kt	R_{-3} = 3.0	$\Delta T_{min,3}$ = -13.0 °C	$\Delta DIR_{max,-3}$ = 90°		NON-SYNOPTIC
G_V = 1.7	R_{+3} = Inf	$\Delta Q_{max,3}$ = 2.0 hPa	$\Delta DIR_{max,+3}$ = 0°		(113)
G_{cor} = 51.0 kt	R_{+6} = [ ]	Δ Grupo/Group = 1	SLPS 072100Z 36030G50KT 2000 FU VCSH BKN027 FEW030CB 27/23 Q1007=		
V_{cor} = 31.0 kt					



Matthew Bruce Vallis (matthewbvallis@gmail.com) Tese de Doutorado/Doctorate Thesis, Porto Alegre: PPGEC/UFRGS, 2019
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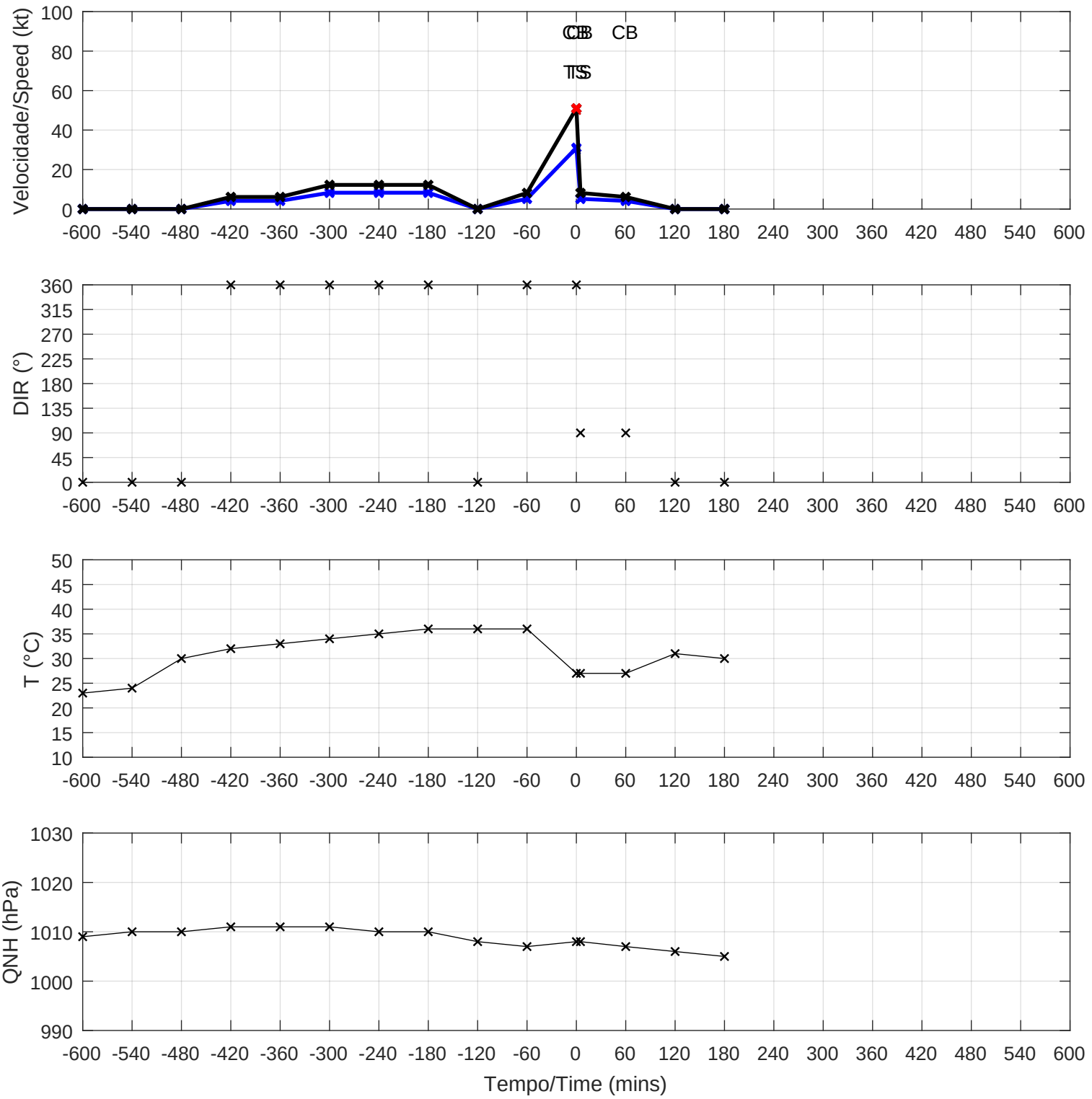
SLPS/85289 EVENTO/EVENT 4 - 07/02/2012, 20:00 UTC (MSS - REDEMET)

Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G_{obs} = 50 kt	R_{-6} = 6.0	$T_{med,3}$ = 36.0 °C	DIR = 360°	SIM/YES	NÃO-SINÓTICO
V_{obs} = 30 kt	R_{-3} = 7.5	$\Delta T_{min,3}$ = -9.0 °C	$\Delta DIR_{max,-3}$ = 0°		NON-SYNOPTIC
G_V = 1.7	R_{+3} = 14.7	$\Delta Q_{max,3}$ = 1.0 hPa	$\Delta DIR_{max,+3}$ = 90°		(110)
G_{cor} = 51.0 kt	R_{+6} = [ ]	Δ Grupo/Group = 1	METAR SLPS 072000Z 36030G50KT 0500 TSRA BKN020 FEW025CB 27/25Q1008=		
V_{cor} = 31.0 kt					



Matthew Bruce Vallis (matthewbvallis@gmail.com) Tese de Doutorado/Doctorate Thesis, Porto Alegre: PPGEC/UFRGS, 2019
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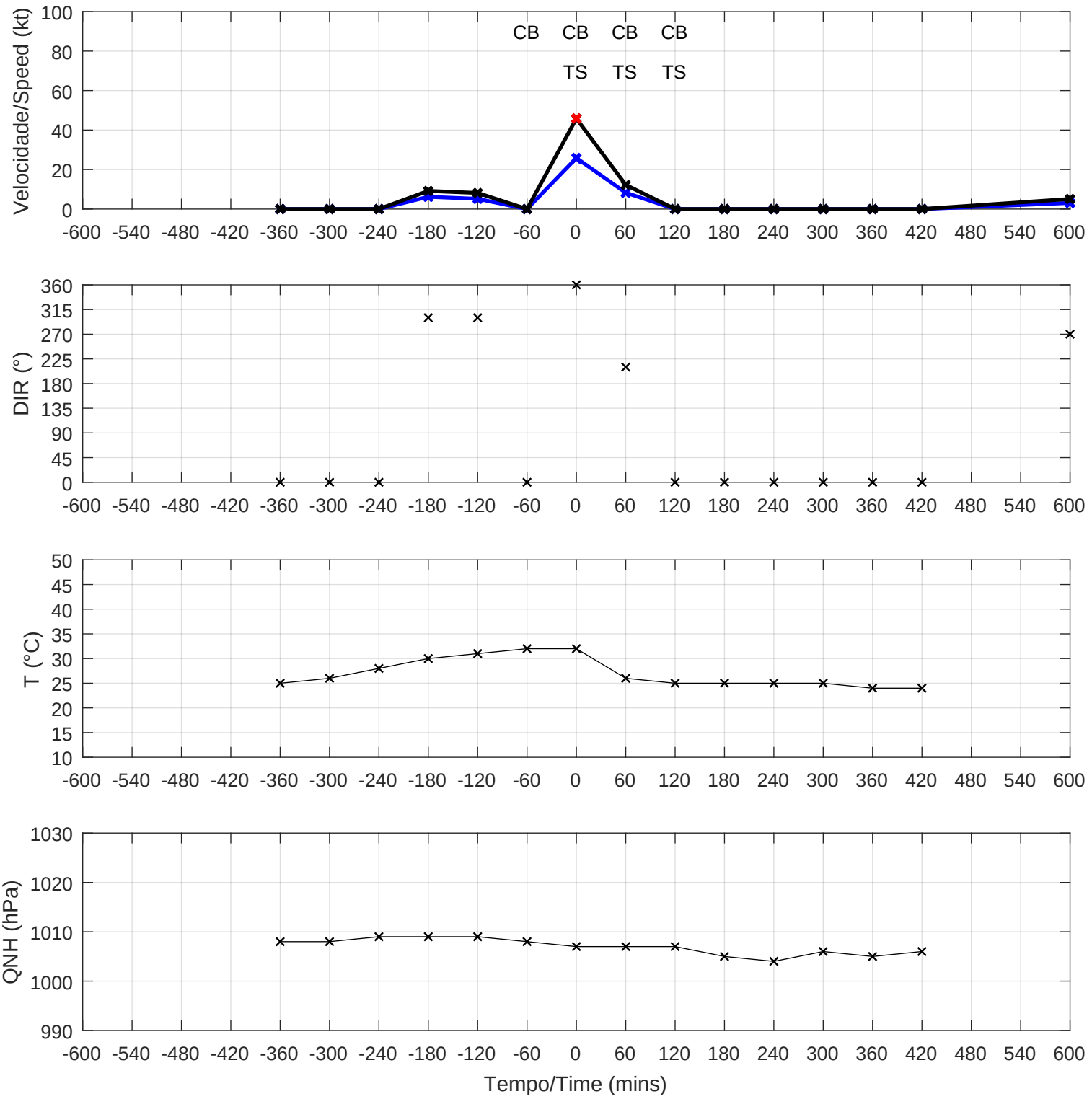
SLPS/85289 EVENTO/EVENT 5 - 20/12/2001, 16:00 UTC (MSS - WUNDERGROUND)

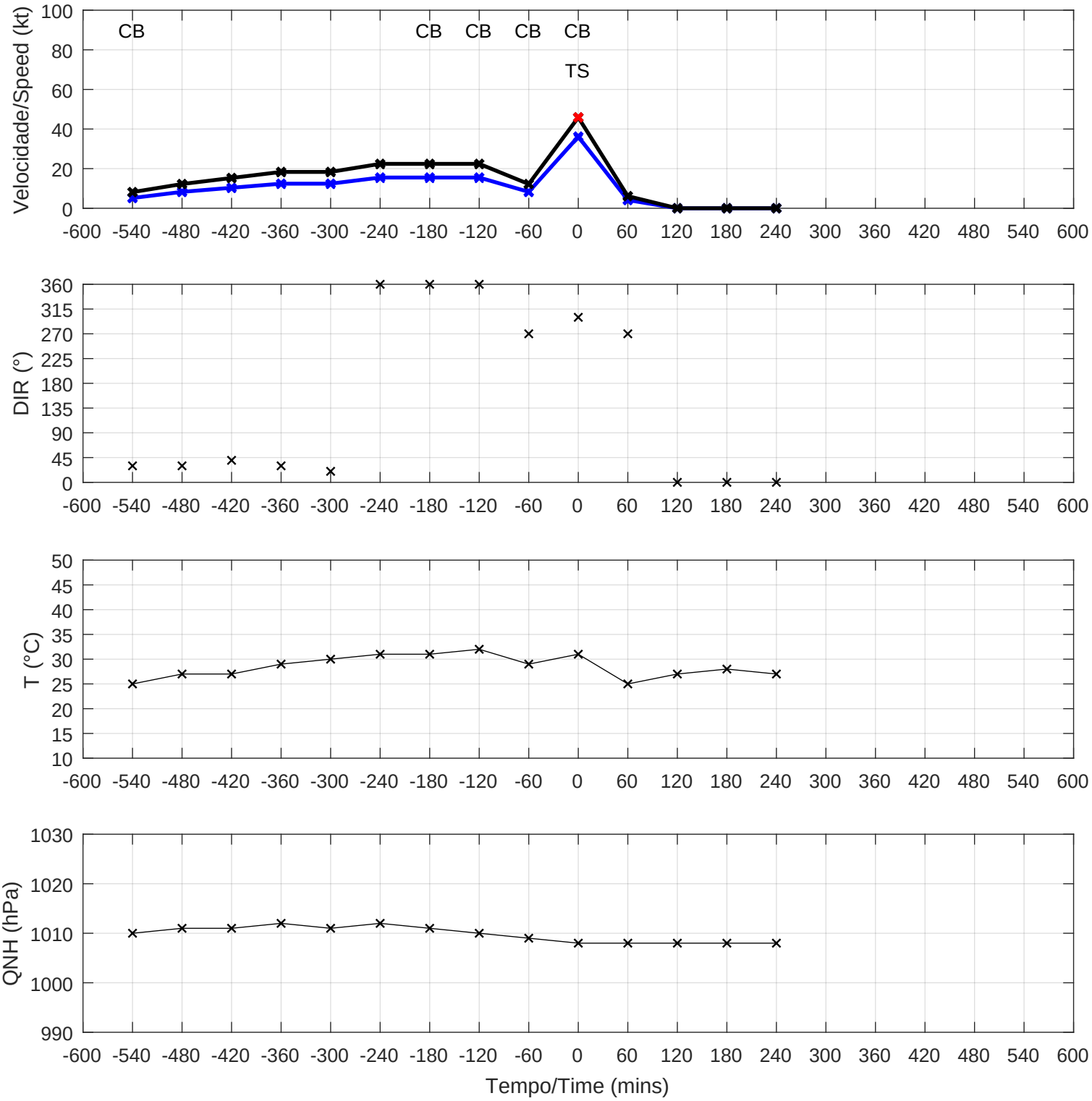
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G_{obs} = 45 kt	R_{-6} = 15.9	$T_{med,3}$ = 31.0 °C	DIR = 360°	SIM/YES	NÃO-SINÓTICO
V_{obs} = 25 kt	R_{-3} = 7.9	$\Delta T_{min,3}$ = -6.0 °C	$\Delta DIR_{max,-3}$ = 60°		NON-SYNOPTIC
G_V = 1.8	R_{+3} = 11.3	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 150°		(114)
G_{cor} = 45.9 kt	R_{+6} = 22.5	Δ Grupo/Group = 3	METAR SLPS 201600Z 36025G45KT 9999 TS BKN017 FEW027CB SCT200 32/26 Q1007		
V_{cor} = 25.9 kt					



Matthew Bruce Vallis (matthewbvallis@gmail.com) Tese de Doutorado/Doctorate Thesis, Porto Alegre: PPGEC/UFRGS, 2019
Modelo Climático para Ventos Extremos no Brasil/Brazilian Extreme Wind Climate

SLPS/85289 EVENTO/EVENT 6 - 21/12/2006, 19:00 UTC (MSS - WUNDERGROUND)

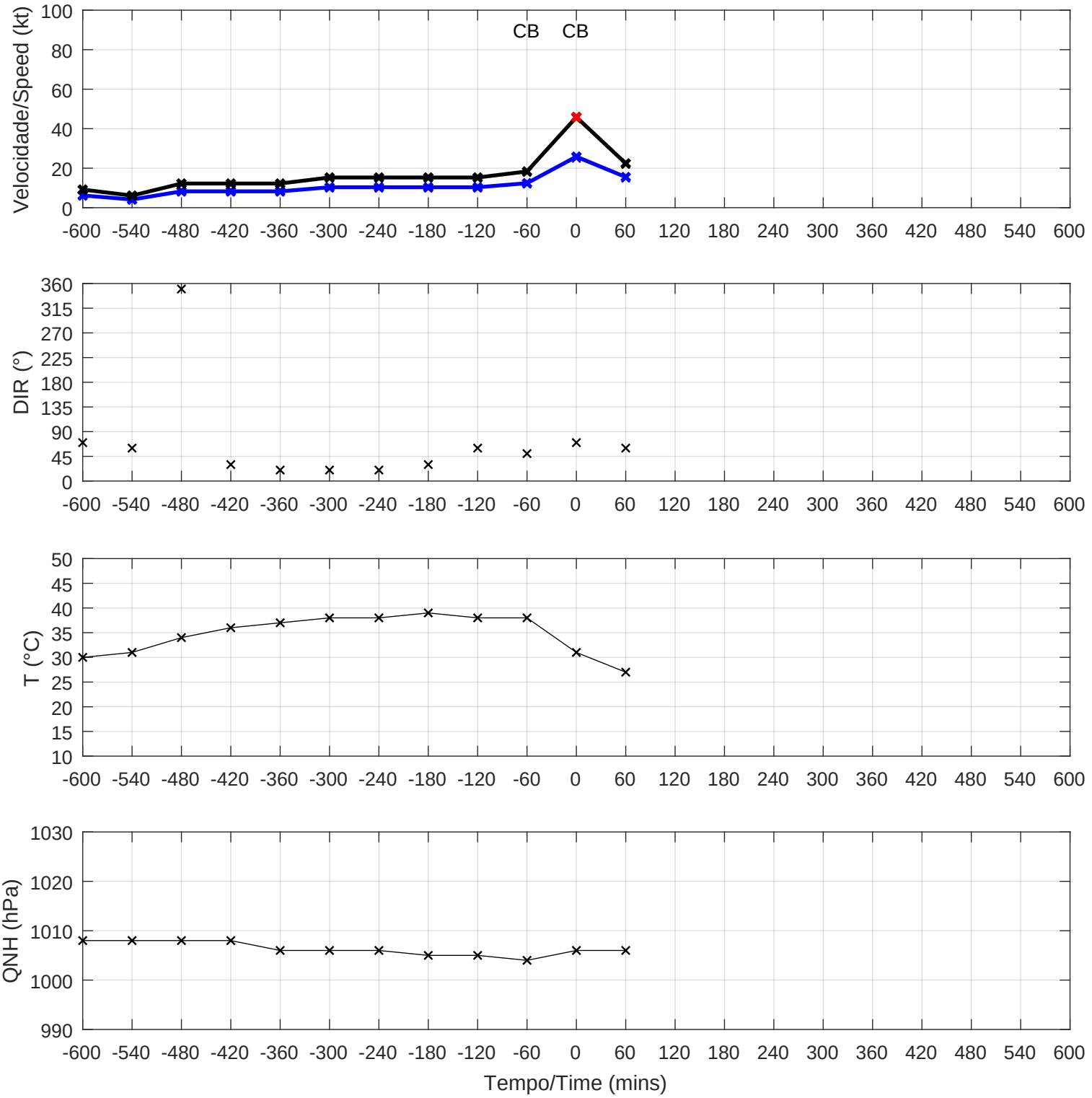
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G_{obs} = 45 kt	R_{-6} = 2.4	$T_{med,3}$ = 30.7 °C	DIR = 300°	SIM/YES	NÃO-SINÓTICO
V_{obs} = 35 kt	R_{-3} = 2.4	$\Delta T_{min,3}$ = -7.0 °C	$\Delta DIR_{max,-3}$ = 60°		NON-SYNOPTIC
G_V = 1.3	R_{+3} = 22.5	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 30°		(110)
G_{cor} = 45.9 kt	R_{+6} = 30.0	Δ Grupo/Group = 2	METAR SLPS 211900Z 30035G45KT 8000 TS VCSH BKN023 FEW027CB 31/24 Q1008		
V_{cor} = 36.2 kt					



Matthew Bruce Vallis (matthewbvallis@gmail.com) Tese de Doutorado/Doctorate Thesis, Porto Alegre: PPGEC/UFRGS, 2019
Modelo Climático para Ventos Extremos no Brasil/Brazilian Extreme Wind Climate

SLPS/85289 EVENTO/EVENT 7 - 23/12/2011, 22:00 UTC (MSS - NCEI/NCDC)

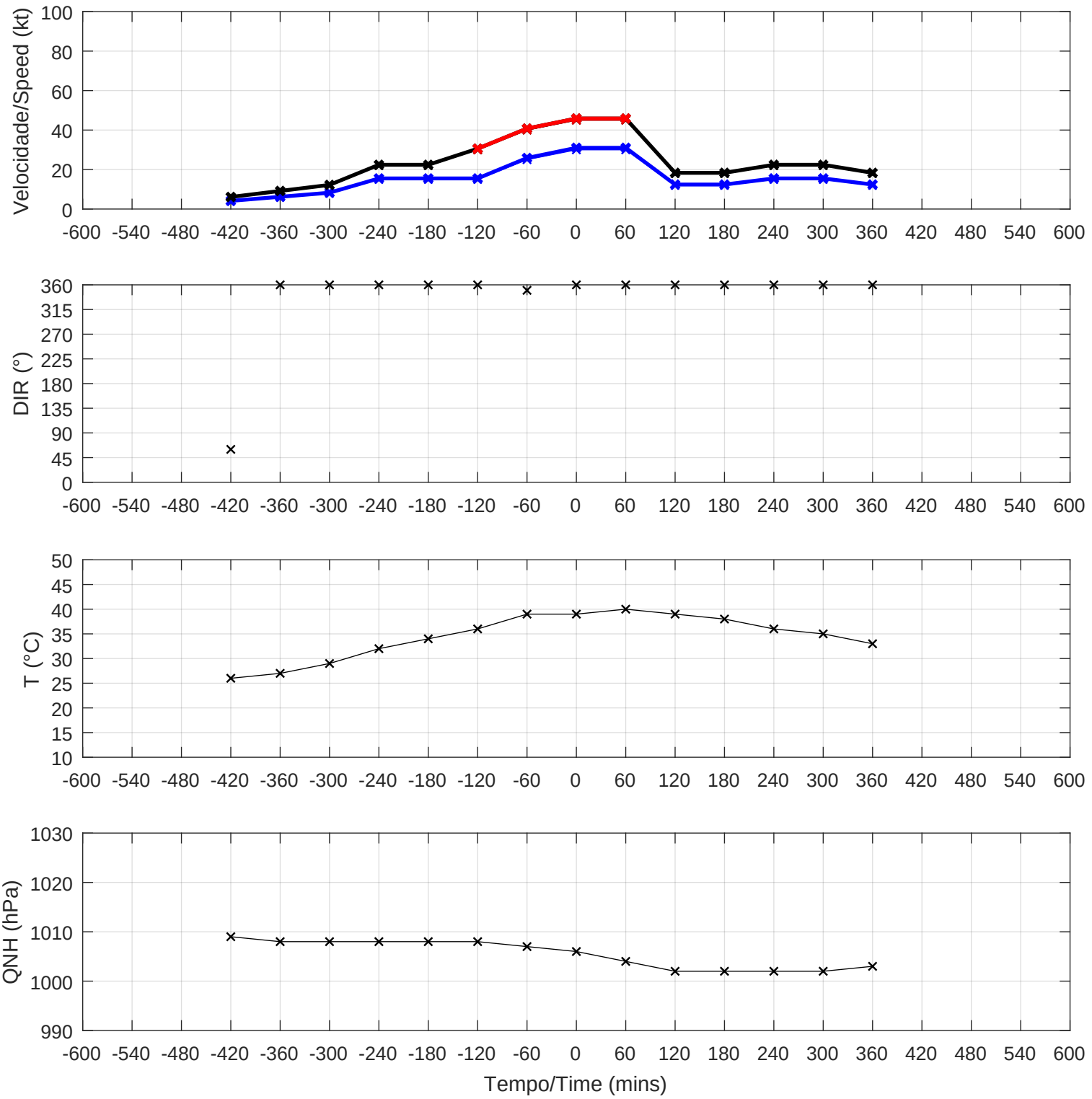
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G_{obs} = 45 kt	R_{-6} = 3.0	$T_{med,3}$ = 38.3 °C	DIR = 70°	NÃO/NO	NÃO-SINÓTICO
V_{obs} = 25 kt	R_{-3} = 2.8	$\Delta T_{min,3}$ = -11.0 °C	$\Delta DIR_{max,-3}$ = 40°		NON-SYNOPTIC
G_V = 1.8	R_{+3} = 2.0	$\Delta Q_{max,3}$ = 2.0 hPa	$\Delta DIR_{max,+3}$ = 10°		(113)
G_{cor} = 45.9 kt	R_{+6} = [ ]	Δ Grupo/Group = 1	METAR SLPS 232200Z 07025G45KT 3000 FU SCT020 FEW025CB 31/24 Q1006=		
V_{cor} = 25.9 kt					



Matthew Bruce Vallis (matthewbvallis@gmail.com) Tese de Doutorado/Doctorate Thesis, Porto Alegre: PPGEC/UFRGS, 2019
Modelo Climático para Ventos Extremos no Brasil/Brazilian Extreme Wind Climate

SLPS/85289 EVENTO/EVENT 8 - 18/09/2012, 17:00 UTC (MSS - REDEMET)

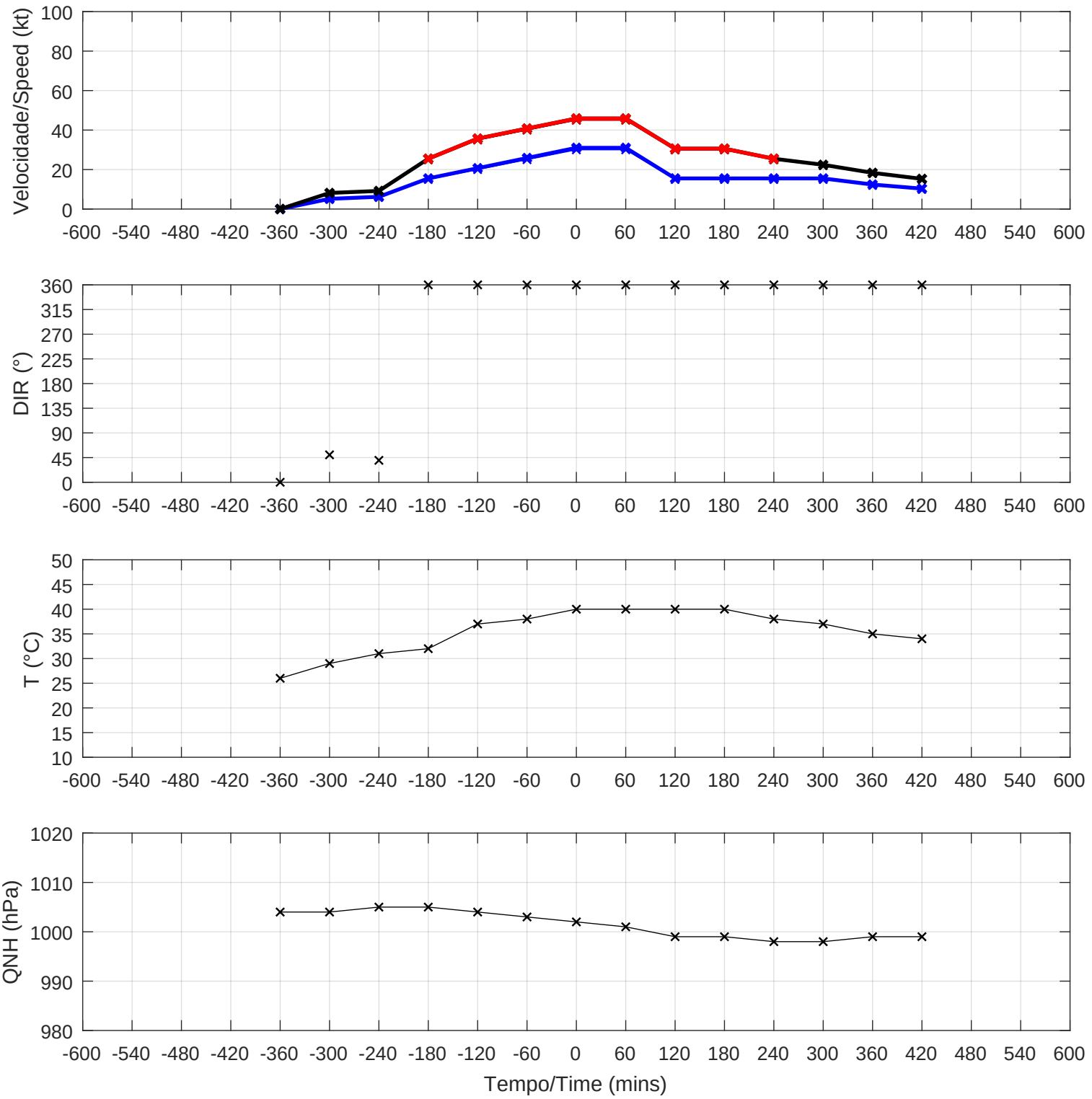
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G_{obs} = 45 kt	R_{-6} = 2.0	$T_{med,3}$ = 36.3 °C	DIR = 360°	NÃO/NO	SINÓTICO
V_{obs} = 30 kt	R_{-3} = 1.5	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = 10°		SYNOPTIC
G_V = 1.5	R_{+3} = 1.7	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 0°		(215)
G_{cor} = 45.9 kt	R_{+6} = 1.9	Δ Grupo/Group = 3	METAR SLPS 181700Z 36030G45KT 4000 FU FEW025 39/19 Q1006=		
V_{cor} = 31.0 kt					



Matthew Bruce Vallis (matthewbvallis@gmail.com) Tese de Doutorado/Doctorate Thesis, Porto Alegre: PPGEC/UFRGS, 2019
Modelo Climático para Ventos Extremos no Brasil/Brazilian Extreme Wind Climate

SLPS/85289 EVENTO/EVENT 9 - 22/10/2012, 16:00 UTC (MSS - REDEMET)

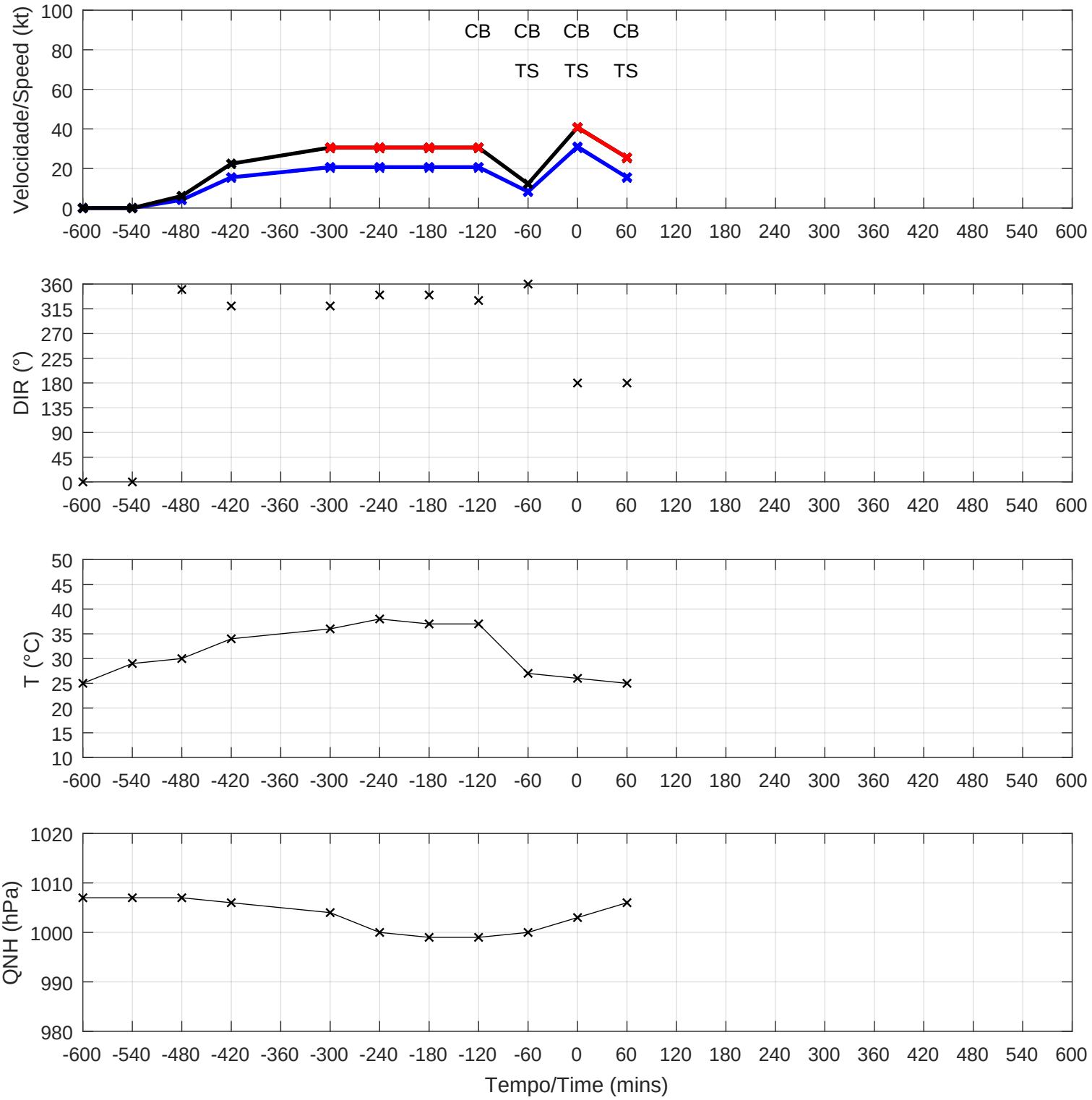
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G_{obs} = 45 kt	R_{-6} = 2.3	$T_{med,3}$ = 35.7 °C	DIR = 360°	NÃO/NO	SINÓTICO
V_{obs} = 30 kt	R_{-3} = 1.3	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = 0°		SYNOPTIC
G_V = 1.5	R_{+3} = 1.3	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 0°		(215)
G_{cor} = 45.9 kt	R_{+6} = 1.6	Δ Grupo/Group = 3	METAR SLPS 221600Z 36030G45KT 9999 NSC 40/19 Q1002=		
V_{cor} = 31.0 kt					



Matthew Bruce Vallis (matthewbvallis@gmail.com) Tese de Doutorado/Doctorate Thesis, Porto Alegre: PPGEC/UFRGS, 2019
Modelo Climático para Ventos Extremos no Brasil/Brazilian Extreme Wind Climate

SLPS/85289 EVENTO/EVENT 10 - 03/09/1996, 22:00 UTC (MSS - WUNDERGROUND)

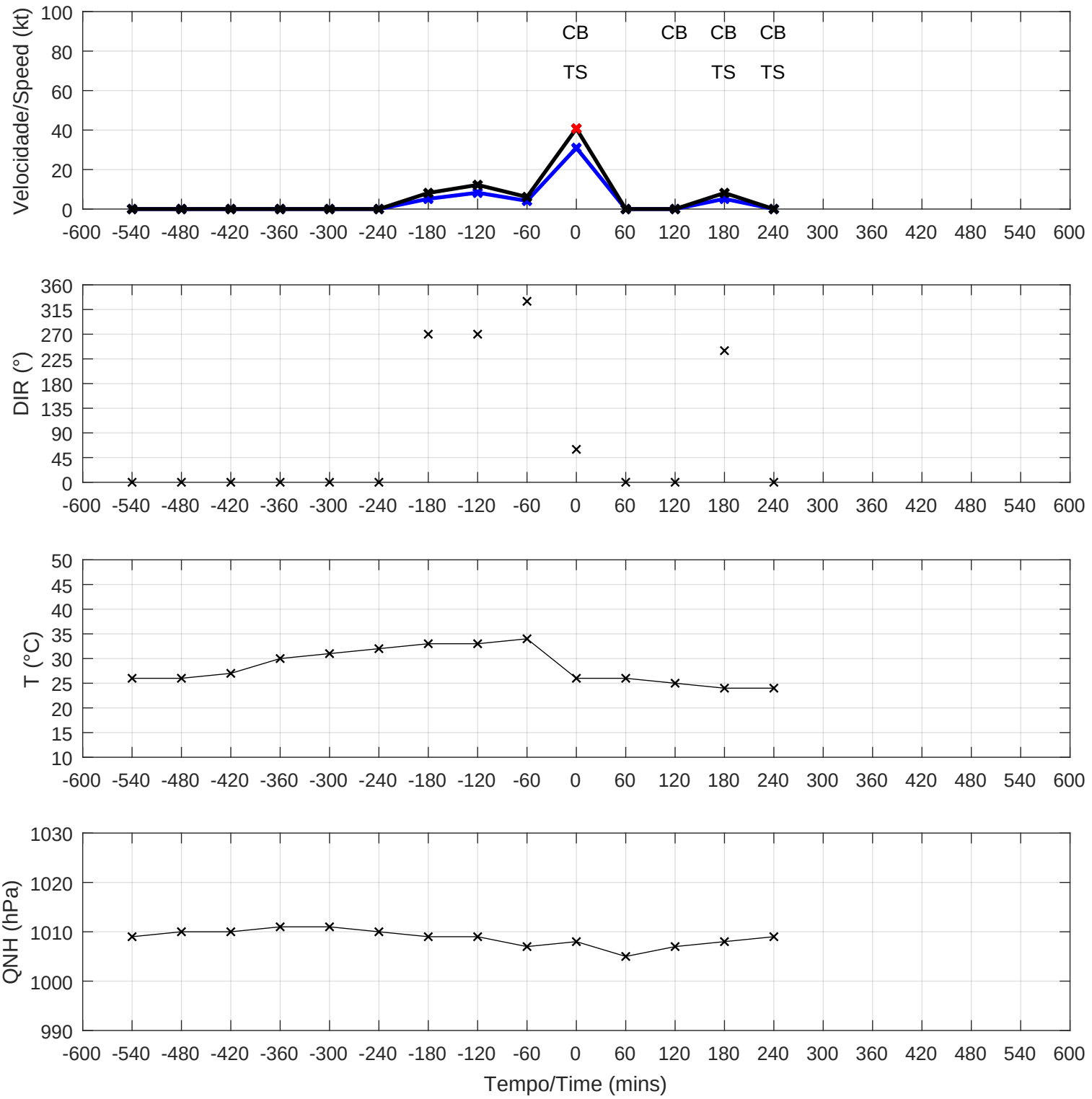
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G_{obs} = 40 kt	R_{-6} = 1.5	$T_{med,3}$ = 33.7 °C	DIR = 180°	SIM/YES	NÃO-SINÓTICO
V_{obs} = 30 kt	R_{-3} = 1.7	$\Delta T_{min,3}$ = -12.0 °C	$\Delta DIR_{max,-3}$ = 180°		NON-SYNOPTIC
G_V = 1.3	R_{+3} = 1.6	$\Delta Q_{max,3}$ = 7.0 hPa	$\Delta DIR_{max,+3}$ = 0°		(110)
G_{cor} = 40.8 kt	R_{+6} = [ ]	Δ Grupo/Group = 1	METAR SLPS 032200Z 18030G40KT 4000 -TSRA BKN008 FEW027CB OVC200 26/22 Q1003		
V_{cor} = 31.0 kt					



Matthew Bruce Vallis (matthewbvallis@gmail.com) Tese de Doutorado/Doctorate Thesis, Porto Alegre: PPGEC/UFRGS, 2019
Modelo Climático para Ventos Extremos no Brasil/Brazilian Extreme Wind Climate

SLPS/85289 EVENTO/EVENT 11 - 05/10/1998, 19:00 UTC (MSS - WUNDERGROUND)

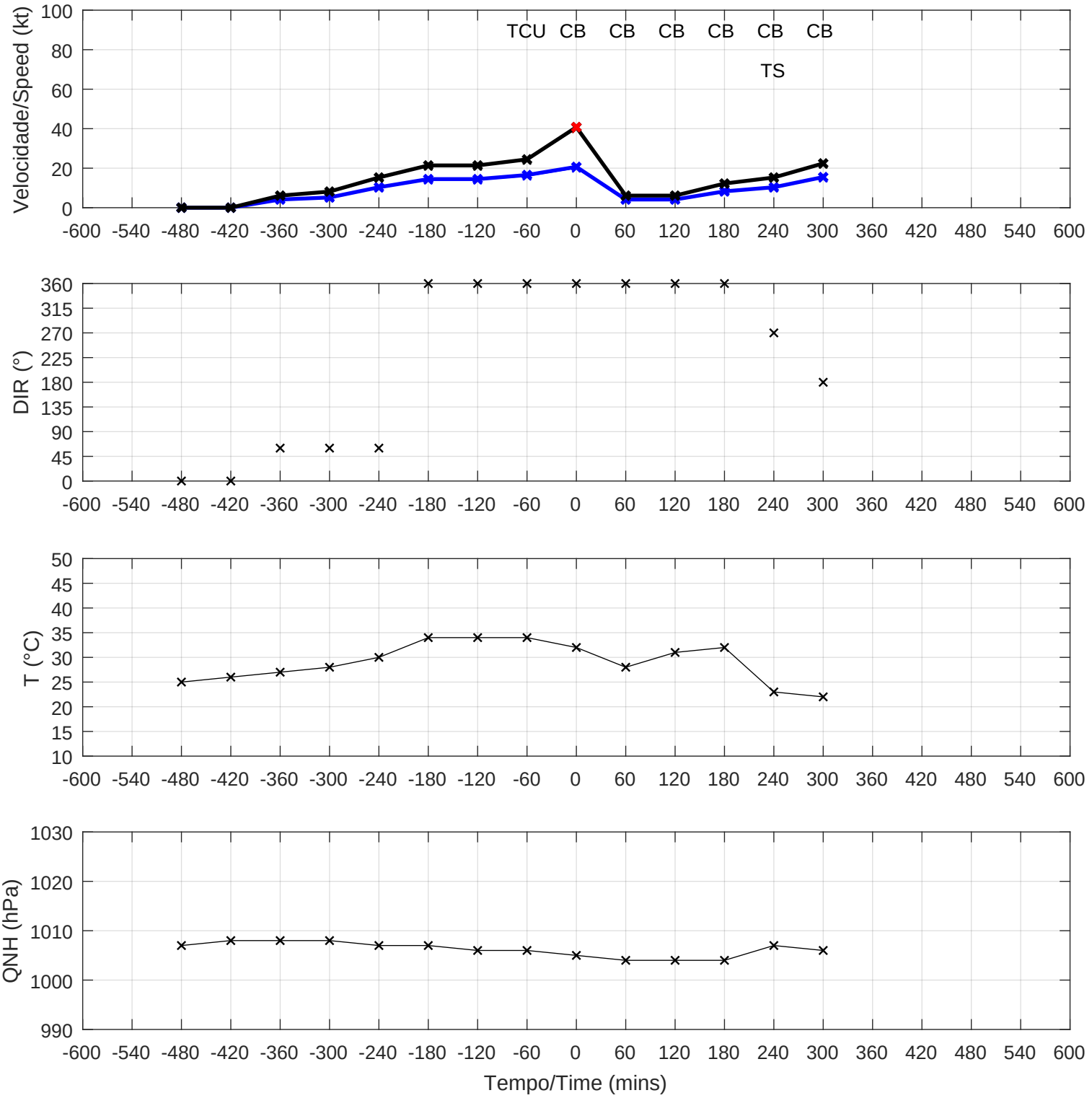
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G_{obs} = 40 kt	R_{-6} = 9.2	$T_{med,3}$ = 33.3 °C	DIR = 60°	SIM/YES	NÃO-SINÓTICO
V_{obs} = 30 kt	R_{-3} = 4.6	$\Delta T_{min,3}$ = -8.0 °C	$\Delta DIR_{max,-3}$ = 150°		NON-SYNOPTIC
G_V = 1.3	R_{+3} = 15.0	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 180°		(110)
G_{cor} = 40.8 kt	R_{+6} = 20.0	Δ Grupo/Group = 2	METAR SLPS 051900Z 06030G40KT 4000 -TSRA SCT020 FEW027CB SCT200 26/21 Q1008		
V_{cor} = 31.0 kt					



Matthew Bruce Vallis (matthewbvallis@gmail.com) Tese de Doutorado/Doctorate Thesis, Porto Alegre: PPGEC/UFRGS, 2019
Modelo Climático para Ventos Extremos no Brasil/Brazilian Extreme Wind Climate

SLPS/85289 EVENTO/EVENT 12 - 24/11/2005, 18:00 UTC (MSS - WUNDERGROUND)

Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G_{obs} = 40 kt	R_{-6} = 2.5	$T_{med,3}$ = 34.0 °C	DIR = 360°	NÃO/NO	SINÓTICO
V_{obs} = 20 kt	R_{-3} = 1.8	$\Delta T_{min,3}$ = -6.0 °C	$\Delta DIR_{max,-3}$ = 0°		SYNOPTIC
G_V = 2.0	R_{+3} = 5.0	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 0°		(214)
G_{cor} = 40.8 kt	R_{+6} = 3.3	Δ Grupo/Group = 3	METAR SLPS 241800Z 36020G40KT 9999 BKN020 FEW027CB BKN070 32/24 Q1005		
V_{cor} = 20.7 kt					



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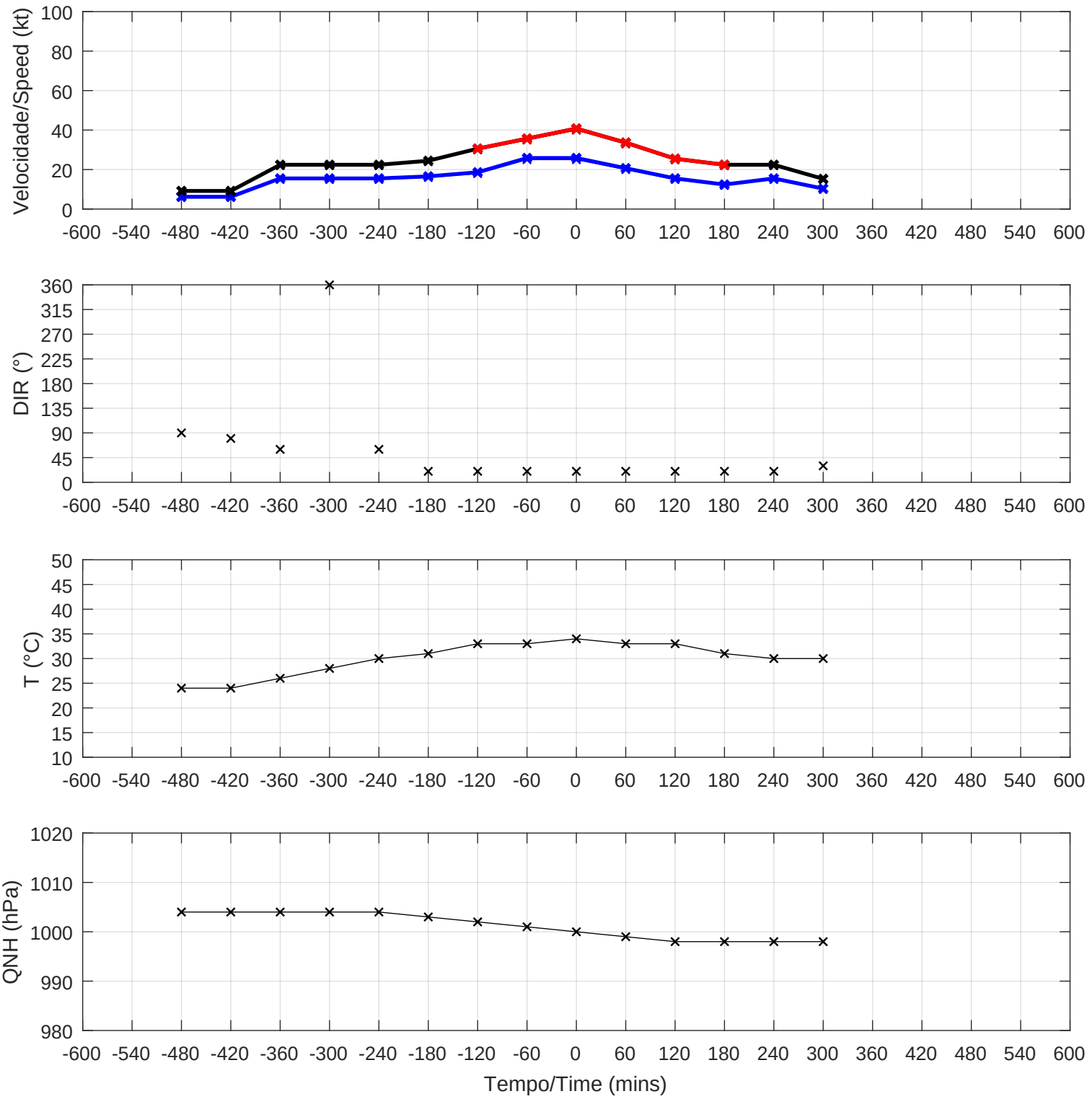
Modelo Climático para Ventos Extremos no Brasil/Brazilian Extreme Wind Climate

SLPS/85289 EVENTO/EVENT 13 - 09/11/2007, 18:00 UTC (MSS - WUNDERGROUND)

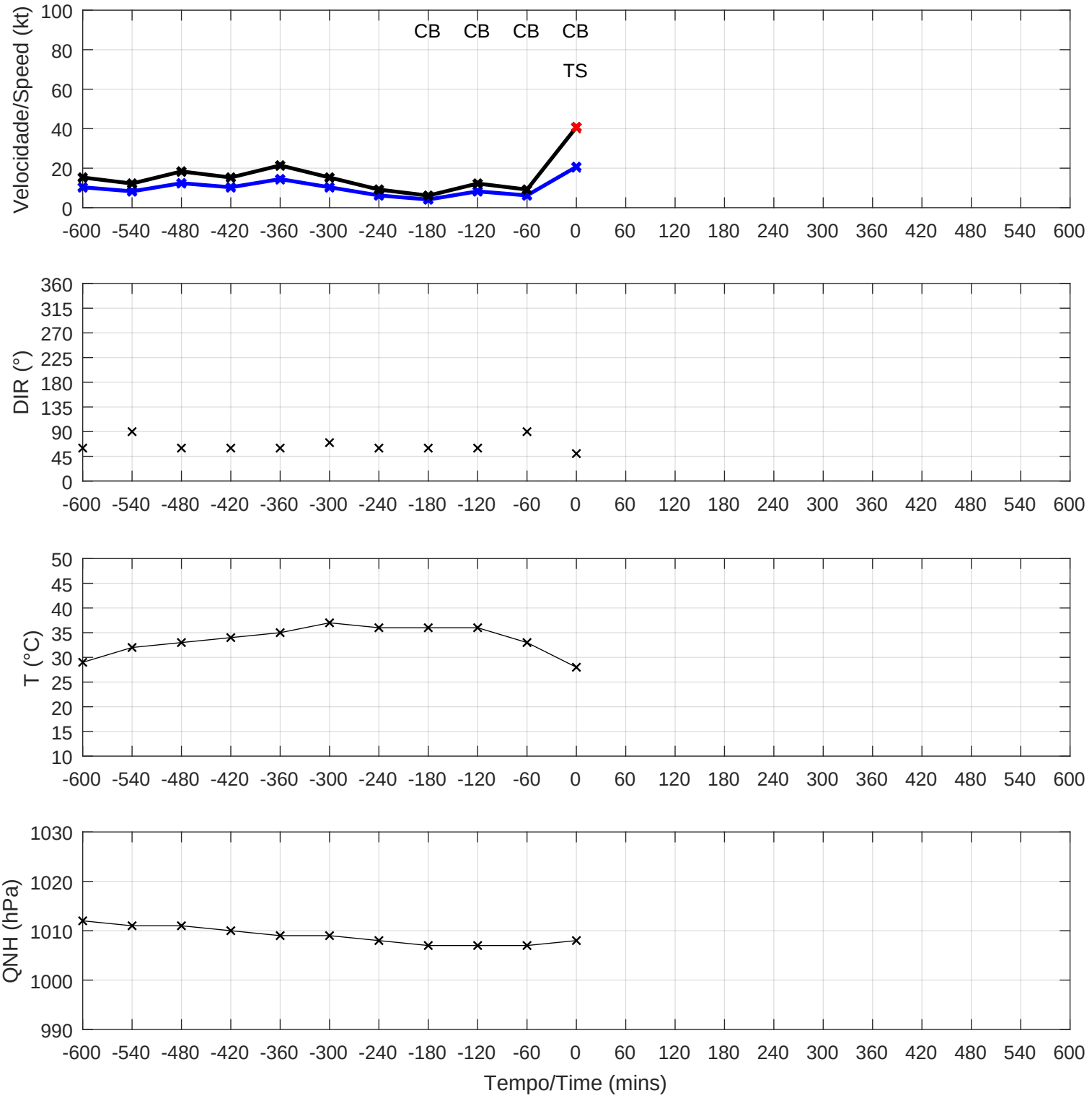
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G_{obs} = 40 kt	R_{-6} = 1.5	$T_{med,3}$ = 32.3 °C	DIR = 20°	NÃO/NO	SINÓTICO
V_{obs} = 25 kt	R_{-3} = 1.3	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = 0°		SYNOPTIC
G_V = 1.6	R_{+3} = 1.5	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 0°		(215)
G_{cor} = 40.8 kt	R_{+6} = 1.7	Δ Grupo/Group = 3	METAR SLPS 091800Z 02025G40KT 9999 FEW027 34/23 Q1000		
V_{cor} = 25.9 kt					



Matthew Bruce Vallis (matthewbvallis@gmail.com) Tese de Doutorado/Doctorate Thesis, Porto Alegre: PPGEC/UFRGS, 2019
Modelo Climático para Ventos Extremos no Brasil/Brazilian Extreme Wind Climate

SLPS/85289 EVENTO/EVENT 14 - 13/11/2010, 23:00 UTC (MSS - REDEMET)

Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G_{obs} = 40 kt	R_{-6} = 3.3	$T_{med,3}$ = 35.0 °C	DIR = 50°	SIM/YES	NÃO-SINÓTICO
V_{obs} = 20 kt	R_{-3} = 4.4	$\Delta T_{min,3}$ = -8.0 °C	$\Delta DIR_{max,-3}$ = 40°		NON-SYNOPTIC
G_V = 2.0	R_{+3} = [ ]	$\Delta Q_{max,3}$ = 1.0 hPa	$\Delta DIR_{max,+3}$ = [ ]		(110)
G_{cor} = 40.8 kt	R_{+6} = [ ]	Δ Grupo/Group = 2	SLPS 132300Z 05020G40KT 8000 TS VCSH BKN023 FEW030CB 28/19Q1008=		
V_{cor} = 20.7 kt					



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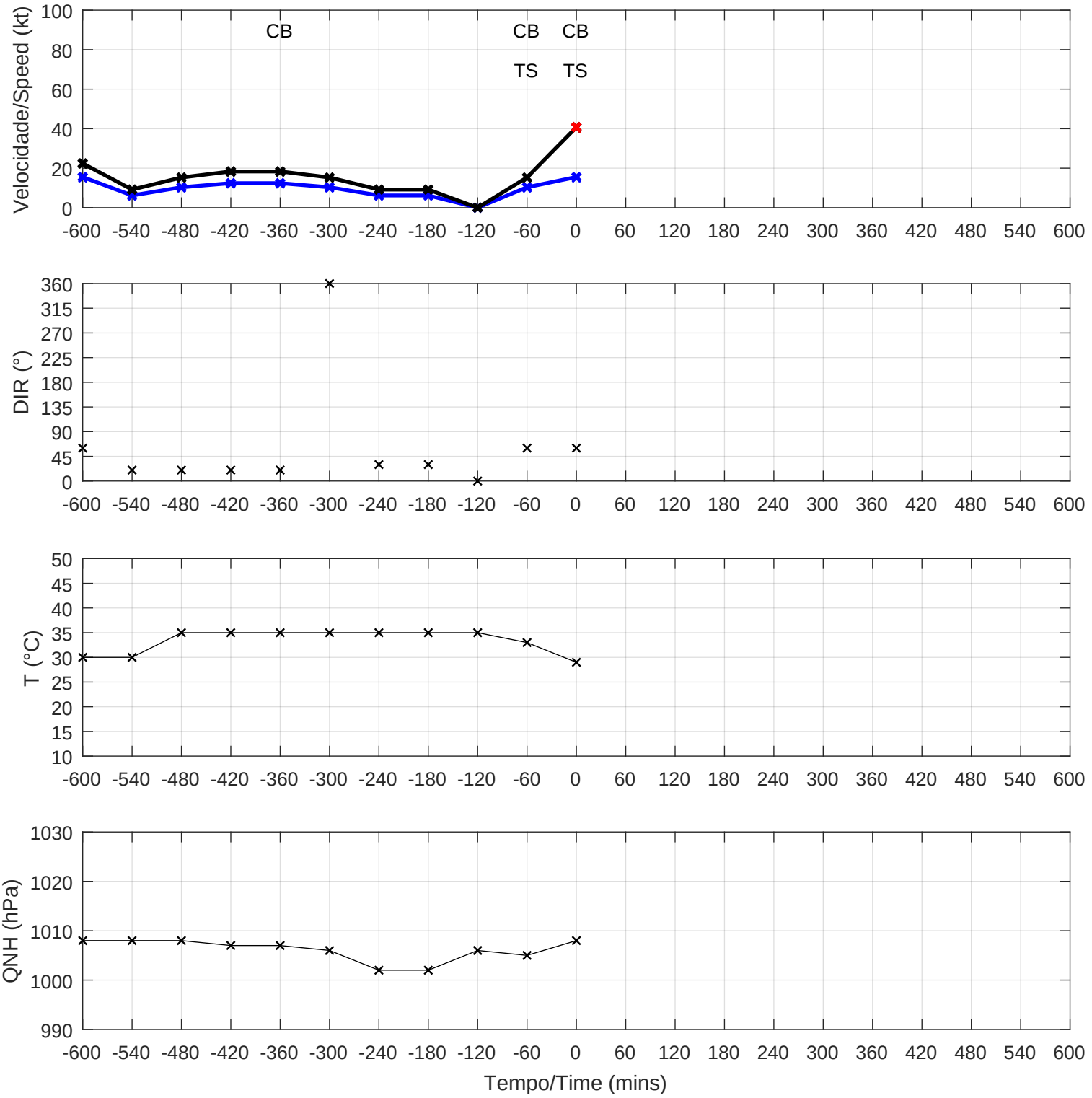
Modelo Climático para Ventos Extremos no Brasil/Brazilian Extreme Wind Climate

SLPS/85289 EVENTO/EVENT 15 - 28/11/2010, 23:00 UTC (MSS - REDEMET)

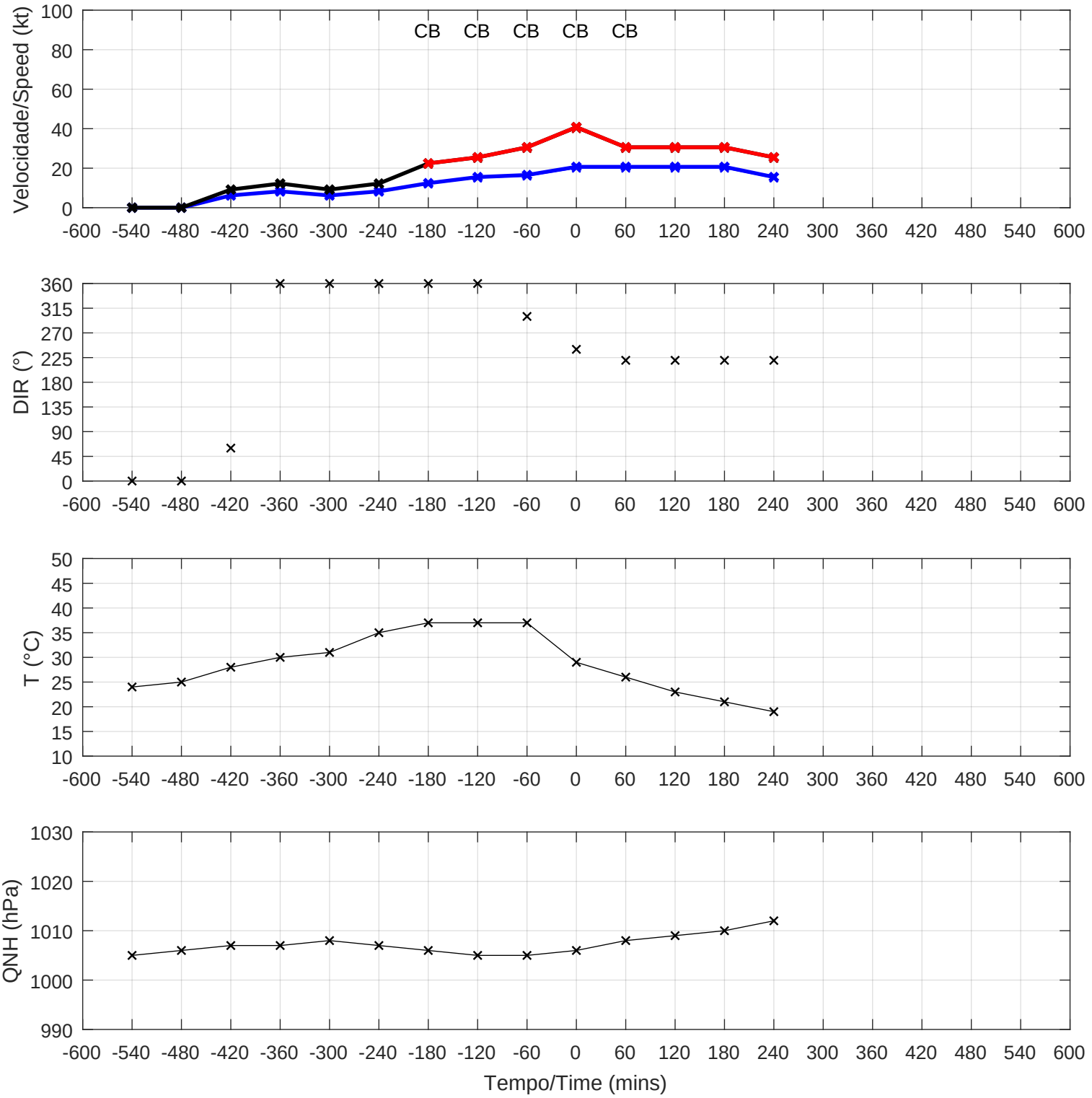
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G_{obs} = 40 kt	R_{-6} = 3.6	$T_{med,3}$ = 34.3 °C	DIR = 60°	SIM/YES	NÃO-SINÓTICO
V_{obs} = 15 kt	R_{-3} = 5.0	$\Delta T_{min,3}$ = -6.0 °C	$\Delta DIR_{max,-3}$ = 30°		NON-SYNOPTIC
G_V = 2.7	R_{+3} = [ ]	$\Delta Q_{max,3}$ = 3.0 hPa	$\Delta DIR_{max,+3}$ = [ ]		(110)
G_{cor} = 40.8 kt	R_{+6} = [ ]	Δ Grupo/Group = 1	SLPS 282300Z 06015G40KT 8000 TSVCSH BKN023 FEW030CB 29/24Q1008=		
V_{cor} = 15.5 kt					



Matthew Bruce Vallis (matthewbvallis@gmail.com) Tese de Doutorado/Doctorate Thesis, Porto Alegre: PPGEC/UFRGS, 2019
Modelo Climático para Ventos Extremos no Brasil/Brazilian Extreme Wind Climate

SLPS/85289 EVENTO/EVENT 16 - 19/08/2011, 19:00 UTC (MSS - REDEMET)

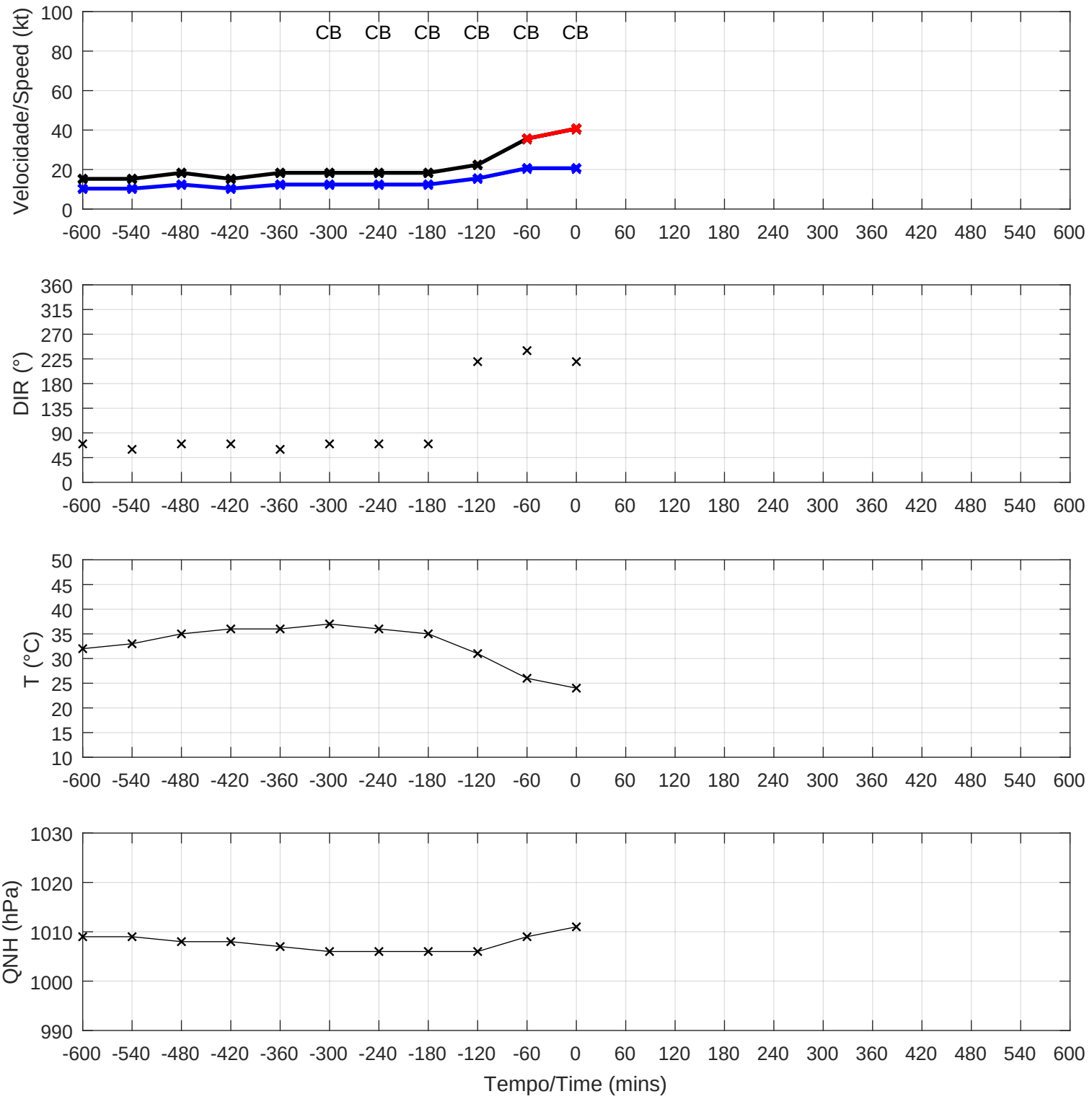
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G_{obs} = 40 kt	R_{-6} = 2.2	$T_{med,3}$ = 37.0 °C	DIR = 240°	NÃO/NO	SINÓTICO
V_{obs} = 20 kt	R_{-3} = 1.6	$\Delta T_{min,3}$ = -11.0 °C	$\Delta DIR_{max,-3}$ = 120°		SYNOPTIC
G_V = 2.0	R_{+3} = 1.3	$\Delta Q_{max,3}$ = 3.0 hPa	$\Delta DIR_{max,+3}$ = 20°		(212)
G_{cor} = 40.8 kt	R_{+6} = 1.4	Δ Grupo/Group = 1	SLPS 191900Z 24020G40KT 9999 SCT025 FEW030CB 29/20 Q1006=		
V_{cor} = 20.7 kt					



Matthew Bruce Vallis (matthewbvallis@gmail.com) Tese de Doutorado/Doctorate Thesis, Porto Alegre: PPGEC/UFRGS, 2019
Modelo Climático para Ventos Extremos no Brasil/Brazilian Extreme Wind Climate

SLPS/85289 EVENTO/EVENT 17 - 10/11/2011, 23:00 UTC (MSS - REDEMET)

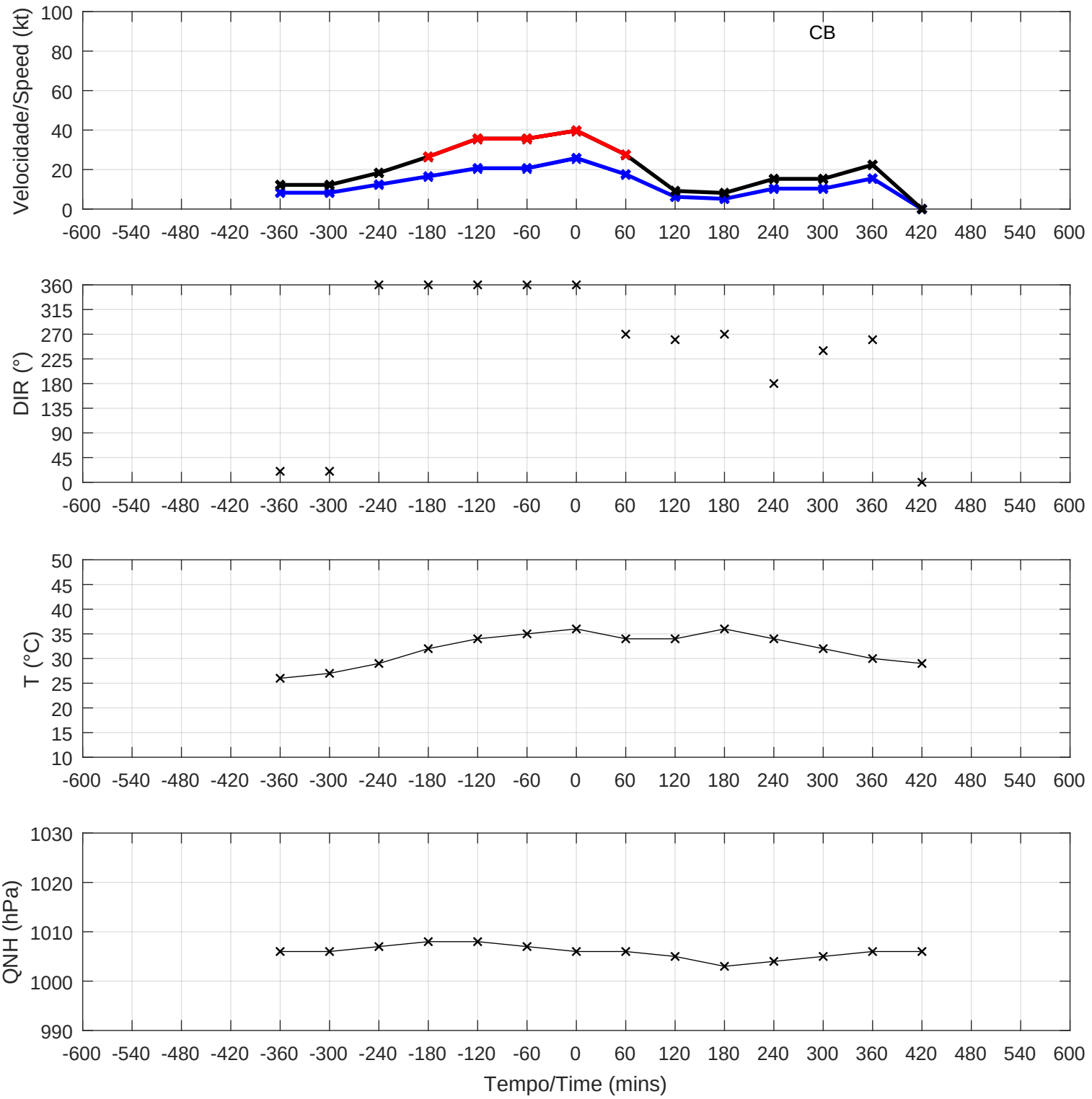
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G_{obs} = 40 kt	R_{-6} = 1.9	$T_{med,3}$ = 30.7 °C	DIR = 220°	NÃO/NO	SINÓTICO
V_{obs} = 20 kt	R_{-3} = 1.6	$\Delta T_{min,3}$ = -7.0 °C	$\Delta DIR_{max,-3}$ = 150°		SYNOPTIC
G_V = 2.0	R_{+3} = [ ]	$\Delta Q_{max,3}$ = 5.0 hPa	$\Delta DIR_{max,+3}$ = [ ]		(212)
G_{cor} = 40.8 kt	R_{+6} = [ ]	Δ Grupo/Group = 1	METAR SLPS 102300Z 22020G40 9999 BKN015 FEW020CB OVC200 24/21 Q1011=		
V_{cor} = 20.7 kt					



Matthew Bruce Vallis (matthewbvallis@gmail.com) Tese de Doutorado/Doctorate Thesis, Porto Alegre: PPGEC/UFRGS, 2019
Modelo Climático para Ventos Extremos no Brasil/Brazilian Extreme Wind Climate

SLPS/85289 EVENTO/EVENT 18 - 30/08/2005, 16:00 UTC (MSS - REDEMET)

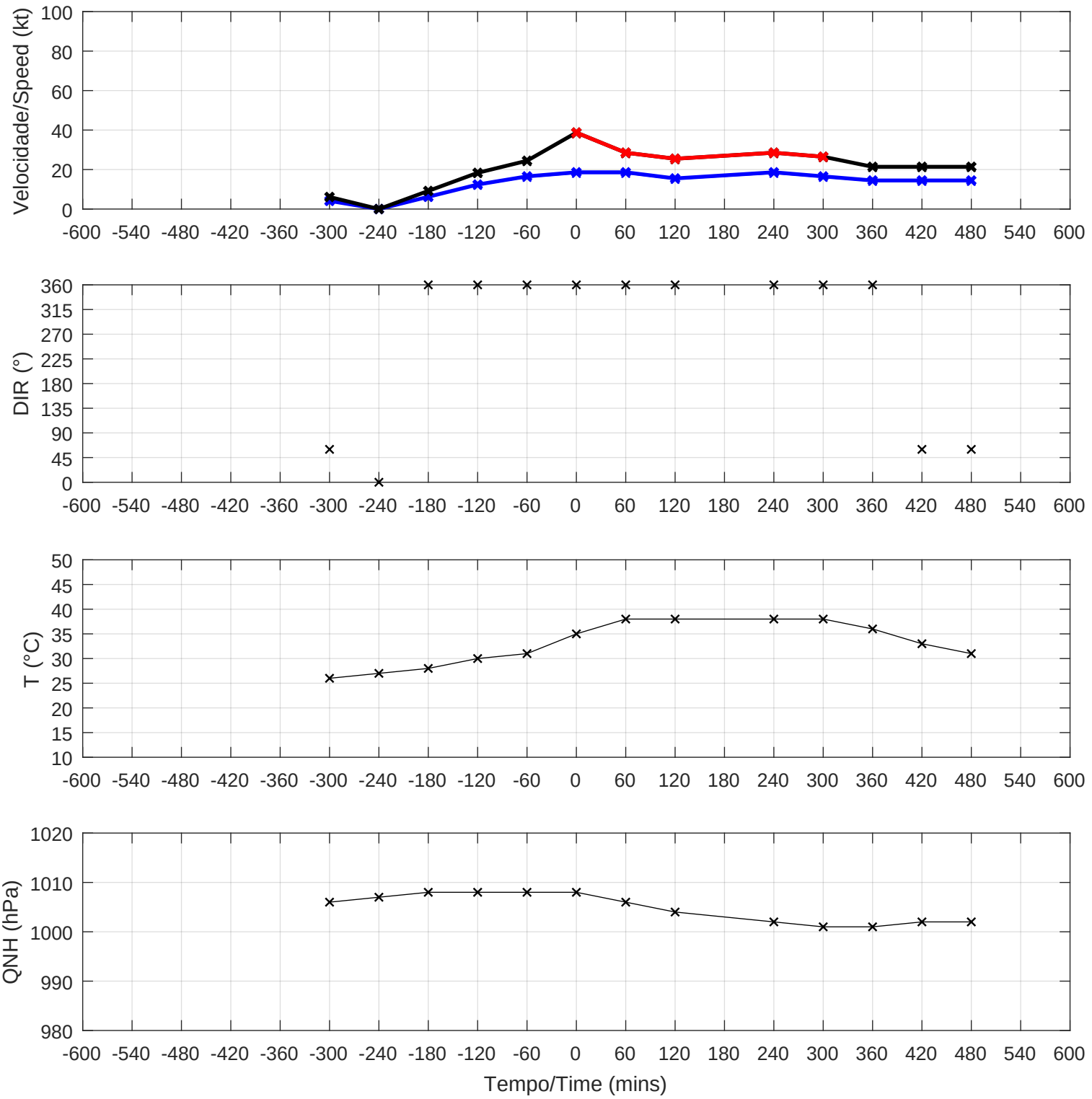
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G_{obs} = 39 kt	R_{-6} = 1.7	$T_{med,3}$ = 33.7 °C	DIR = 360°	NÃO/NO	SINÓTICO
V_{obs} = 25 kt	R_{-3} = 1.2	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = 0°		SYNOPTIC
G_V = 1.6	R_{+3} = 2.7	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 100°		(214)
G_{cor} = 39.7 kt	R_{+6} = 2.4	Δ Grupo/Group = 3	SLPS 301600Z 36025G39KT 2500 FU SCT025 36/19 Q1006=		
V_{cor} = 25.9 kt					



Matthew Bruce Vallis (matthewbvallis@gmail.com) Tese de Doutorado/Doctorate Thesis, Porto Alegre: PPGEC/UFRGS, 2019
Modelo Climático para Ventos Extremos no Brasil/Brazilian Extreme Wind Climate

SLPS/85289 EVENTO/EVENT 19 - 07/09/1999, 15:00 UTC (MSS - WUNDERGROUND)

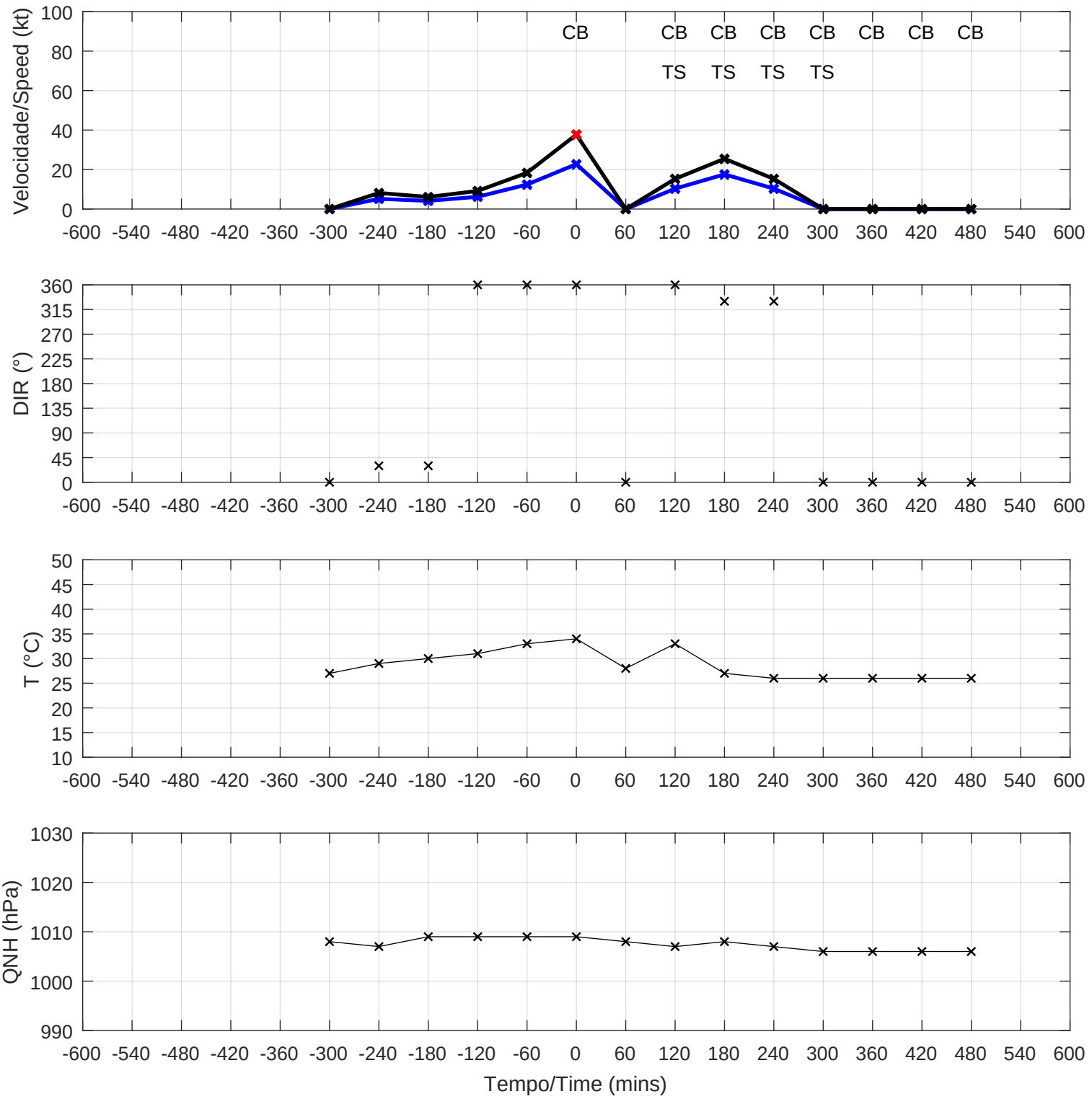
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G_{obs} = 38 kt	R_{-6} = 3.3	$T_{med,3}$ = 29.7 °C	DIR = 360°	NÃO/NO	SINÓTICO
V_{obs} = 18 kt	R_{-3} = 2.2	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = 0°		SYNOPTIC
G_V = 2.1	R_{+3} = 1.4	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 0°		(214)
G_{cor} = 38.7 kt	R_{+6} = 1.5	Δ Grupo/Group = 3	METAR SLPS 071500Z 36018G38KT 2000 FU SKC 35/21 Q1008		
V_{cor} = 18.6 kt					



Matthew Bruce Vallis (matthewbvallis@gmail.com) Tese de Doutorado/Doctorate Thesis, Porto Alegre: PPGEC/UFRGS, 2019
Modelo Climático para Ventos Extremos no Brasil/Brazilian Extreme Wind Climate

SLPS/85289 EVENTO/EVENT 20 - 06/01/1998, 15:00 UTC (MSS - WUNDERGROUND)

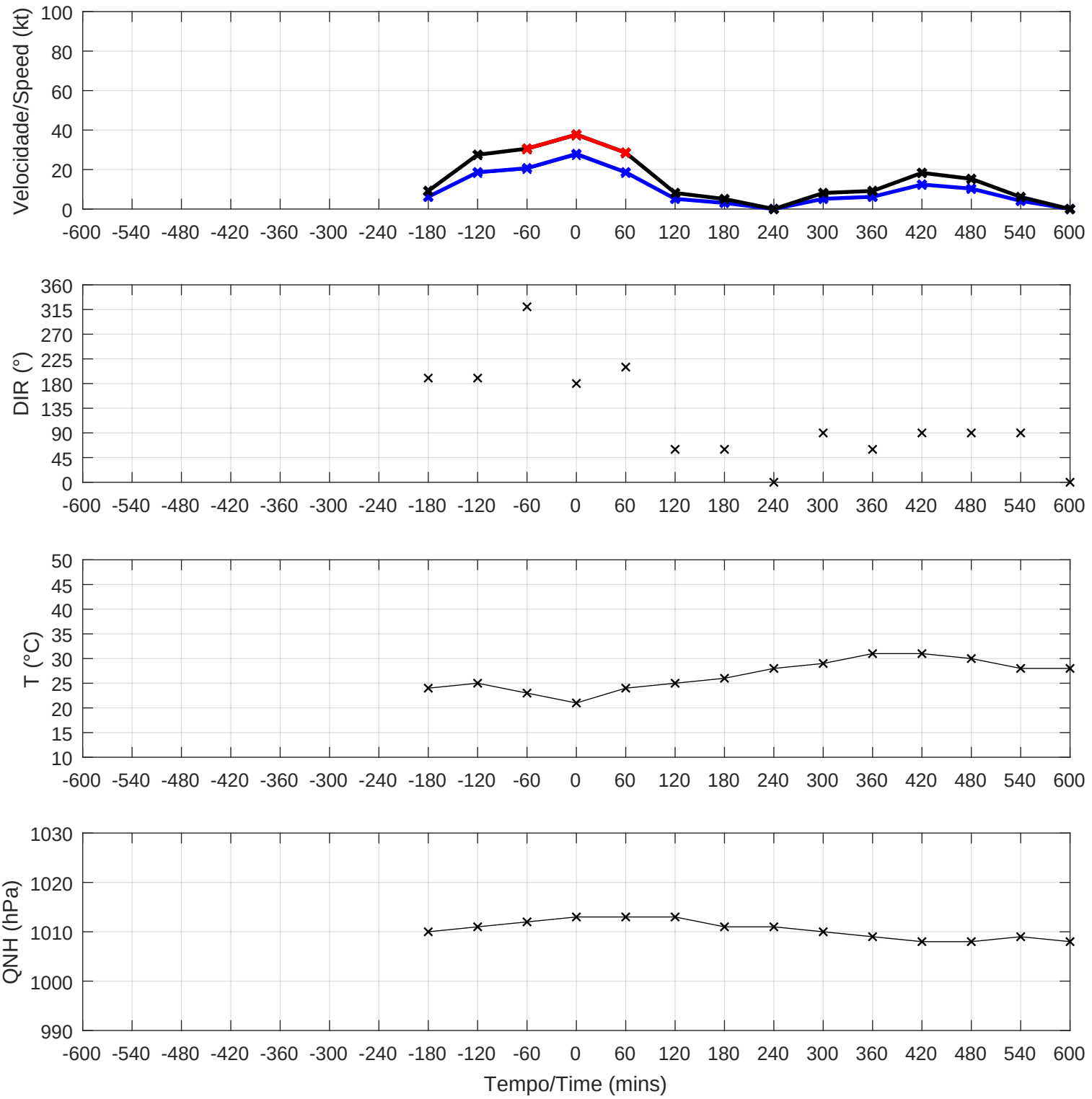
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G_{obs} = 37 kt	R_{-6} = 4.5	$T_{med,3}$ = 31.3 °C	DIR = 360°	NÃO/NO	NÃO-SINÓTICO
V_{obs} = 22 kt	R_{-3} = 3.4	$\Delta T_{min,3}$ = -6.0 °C	$\Delta DIR_{max,-3}$ = 30°		NON-SYNOPTIC
G_V = 1.7	R_{+3} = 2.8	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 30°		(117)
G_{cor} = 37.7 kt	R_{+6} = 4.0	Δ Grupo/Group = 3	METAR SLPS 061500Z 36022G37KT 9000 VCSH BKN017 SCT023CB SCT023 34/26 Q1009		
V_{cor} = 22.7 kt					



Matthew Bruce Vallis (matthewbvallis@gmail.com) Tese de Doutorado/Doctorate Thesis, Porto Alegre: PPGEC/UFRGS, 2019
Modelo Climático para Ventos Extremos no Brasil/Brazilian Extreme Wind Climate

SLPS/85289 EVENTO/EVENT 21 - 05/11/2005, 13:00 UTC (MSS - WUNDERGROUND)

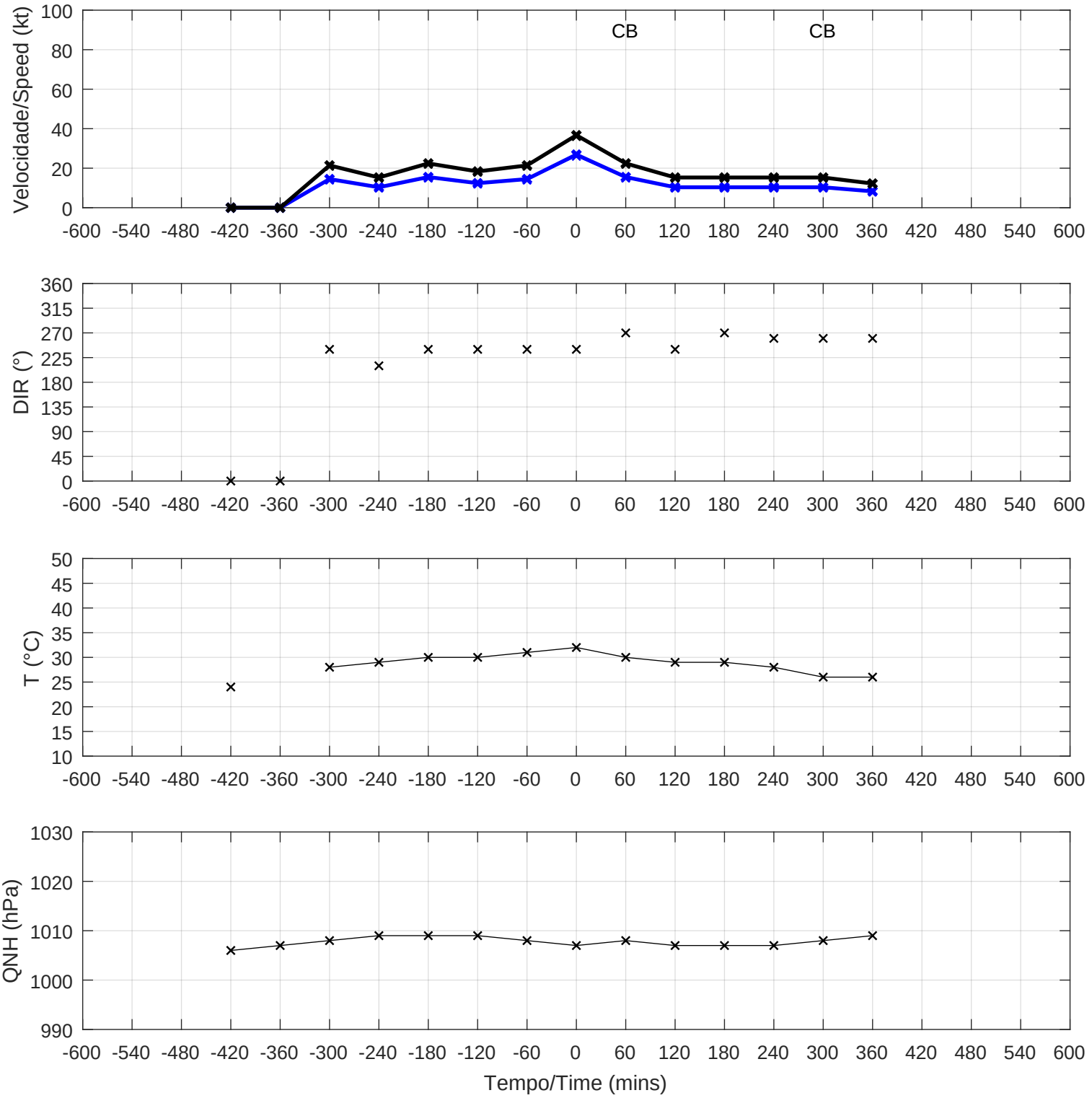
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G_{obs} = 37 kt	R_{-6} = [ ]	$T_{med,3}$ = 24.0 °C	DIR = 180°	NÃO/NO	NÃO-SINÓTICO
V_{obs} = 27 kt	R_{-3} = 1.7	$\Delta T_{min,3}$ = -4.0 °C	$\Delta DIR_{max,-3}$ = 140°		NON-SYNOPTIC
G_V = 1.4	R_{+3} = 2.7	$\Delta Q_{max,3}$ = 2.0 hPa	$\Delta DIR_{max,+3}$ = 120°		(111)
G_{cor} = 37.7 kt	R_{+6} = 3.8	Δ Grupo/Group = 1	METAR SLPS 051300Z 18027G37KT 9999 BKN015 BKN070 OVC200 21/20 Q1013		
V_{cor} = 27.9 kt					



Matthew Bruce Vallis (matthewbvallis@gmail.com) Tese de Doutorado/Doctorate Thesis, Porto Alegre: PPGEC/UFRGS, 2019
Modelo Climático para Ventos Extremos no Brasil/Brazilian Extreme Wind Climate

SLPS/85289 EVENTO/EVENT 22 - 12/10/1996, 17:00 UTC (MSS - WUNDERGROUND)

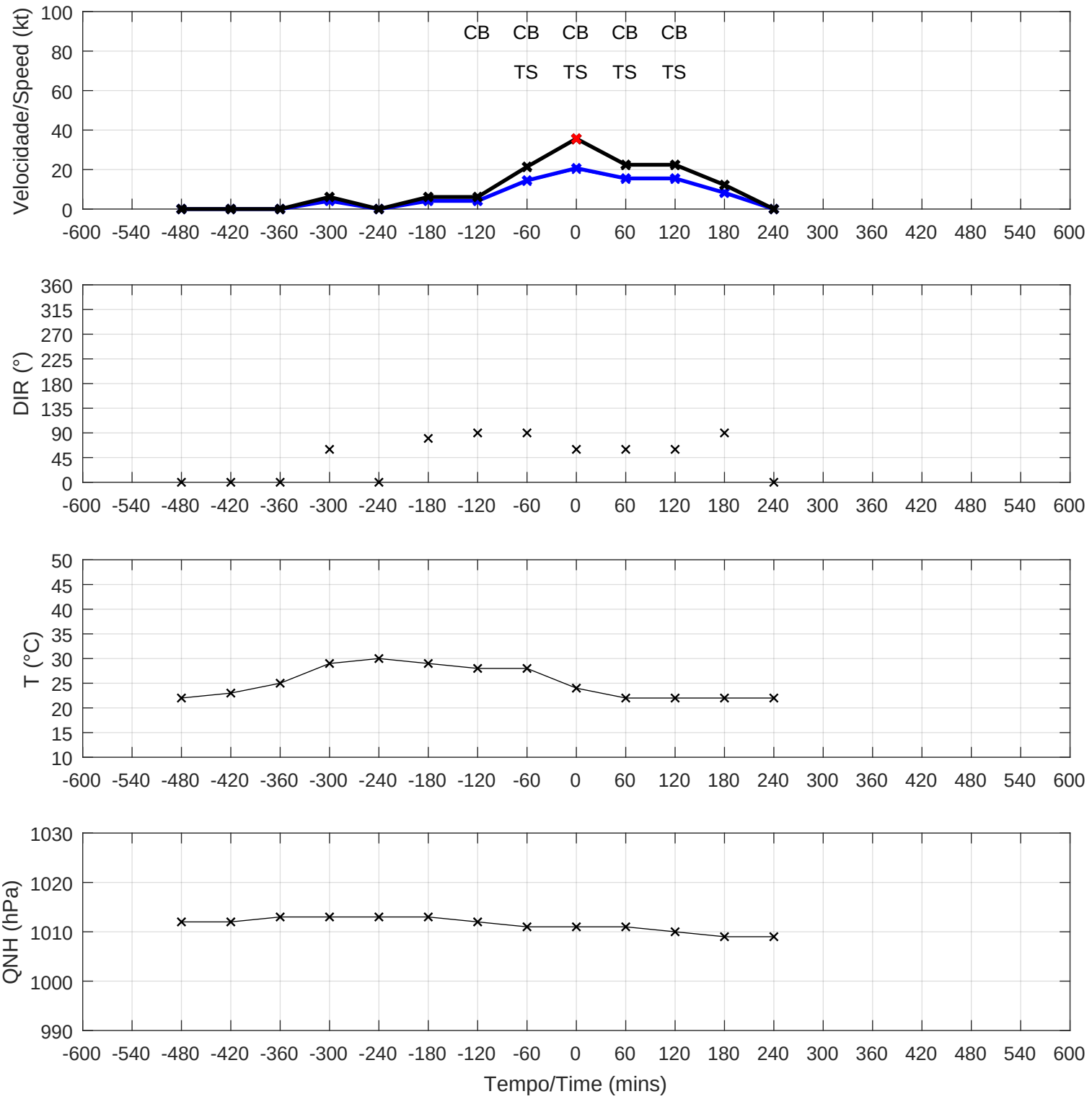
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G* = 36 kt	R_{-6} = 2.2	$T_{med,3}$ = 30.3 °C	DIR = 240°	NÃO/NO	SINÓTICO
V_{obs} = 26 kt	R_{-3} = 1.8	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = 0°		SYNOPTIC
G_V = [ ]	R_{+3} = 2.1	$\Delta Q_{max,3}$ = 1.0 hPa	$\Delta DIR_{max,+3}$ = 30°		(225)
G_{cor} = 36.7 kt	R_{+6} = 2.3	Δ Grupo/Group = 3	METAR SLPS 121700Z 24026KT 9999 FEW023 BKN200 32/21 Q1007		
V_{cor} = 26.9 kt					



Matthew Bruce Vallis (matthewbvallis@gmail.com) Tese de Doutorado/Doctorate Thesis, Porto Alegre: PPGEC/UFRGS, 2019
Modelo Climático para Ventos Extremos no Brasil/Brazilian Extreme Wind Climate

SLPS/85289 EVENTO/EVENT 23 - 01/10/1996, 18:00 UTC (MSS - WUNDERGROUND)

Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G_{obs} = 35 kt	R_{-6} = 5.4	$T_{med,3}$ = 28.3 °C	DIR = 60°	SIM/YES	NÃO-SINÓTICO
V_{obs} = 20 kt	R_{-3} = 3.2	$\Delta T_{min,3}$ = -6.0 °C	$\Delta DIR_{max,-3}$ = 30°		NON-SYNOPTIC
G_V = 1.8	R_{+3} = 1.9	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 30°		(114)
G_{cor} = 35.7 kt	R_{+6} = 2.5	Δ Grupo/Group = 3	METAR SLPS 011800Z 06020G35KT 9999 TS BKN007 FEW023CB BKN070 24/22 Q1011		
V_{cor} = 20.7 kt					



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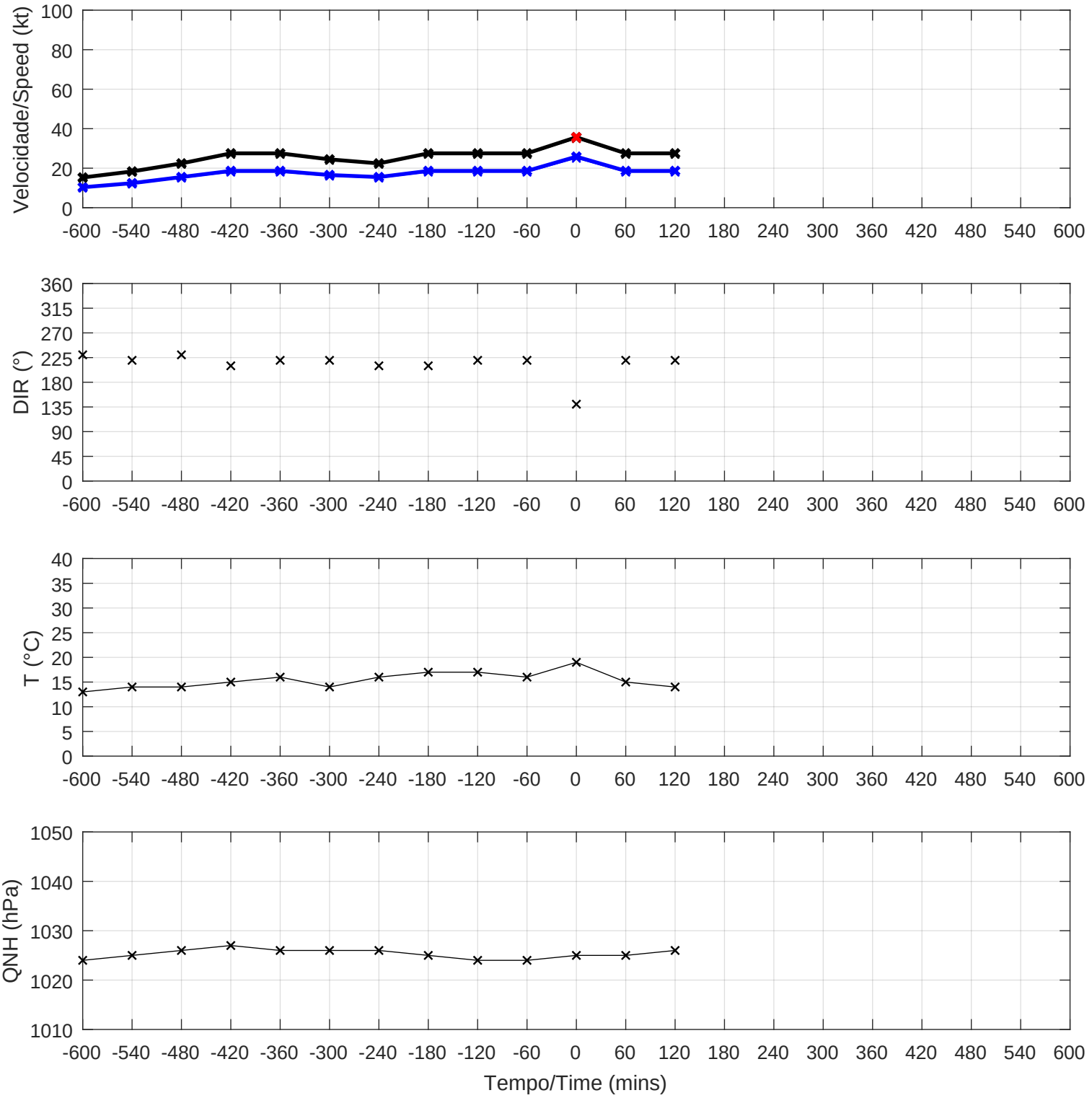
Modelo Climático para Ventos Extremos no Brasil/Brazilian Extreme Wind Climate

SLPS/85289 EVENTO/EVENT 24 - 07/08/1997, 21:00 UTC (MSS - WUNDERGROUND)

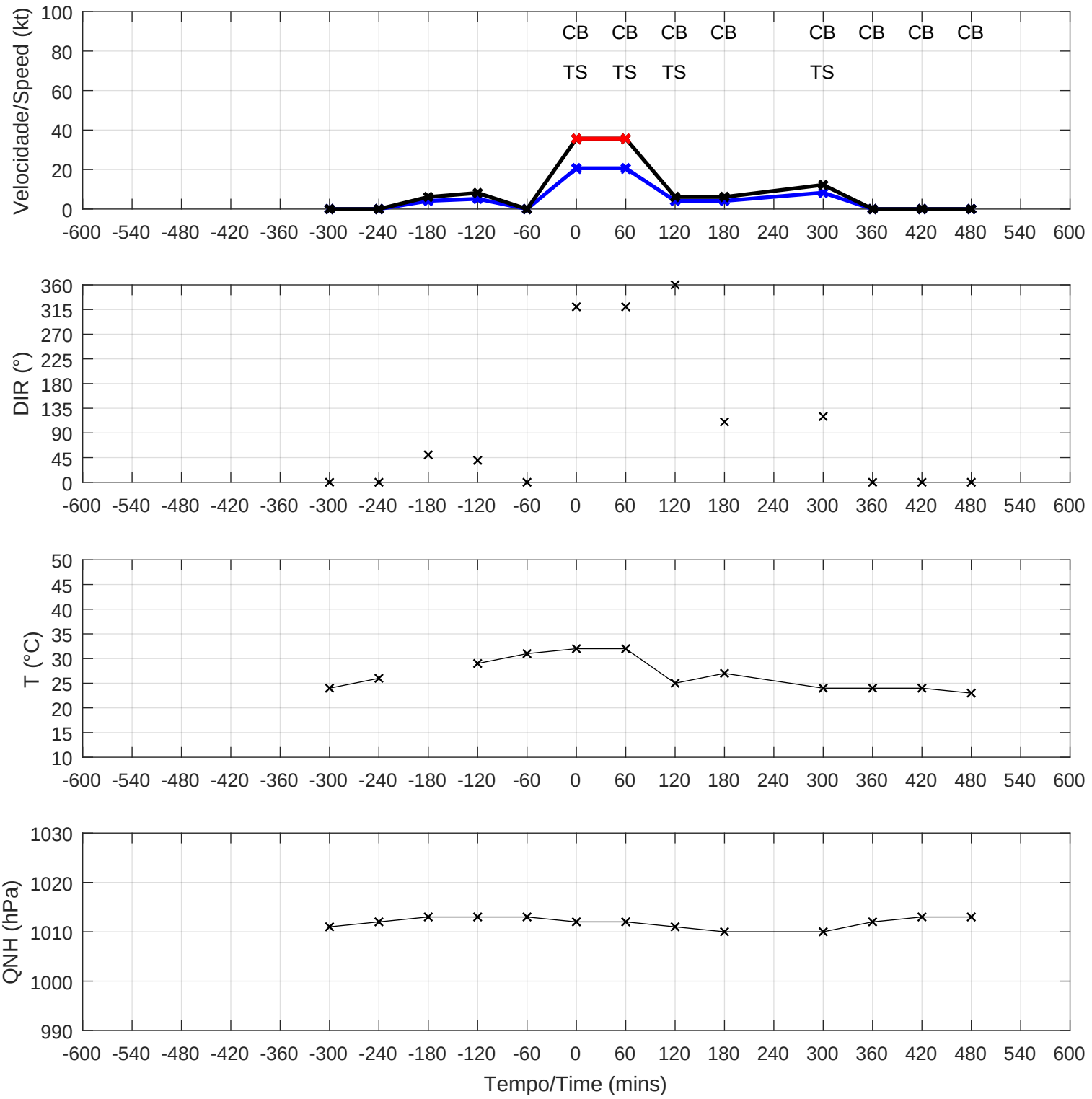
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G_{obs} = 35 kt	R_{-6} = 1.4	$T_{med,3}$ = 16.7 °C	DIR = 140°	NÃO/NO	SINÓTICO
V_{obs} = 25 kt	R_{-3} = 1.3	$\Delta T_{min,3}$ = -4.0 °C	$\Delta DIR_{max,-3}$ = 80°		SYNOPTIC
G_V = 1.4	R_{+3} = 1.3	$\Delta Q_{max,3}$ = 1.0 hPa	$\Delta DIR_{max,+3}$ = 80°		(212)
G_{cor} = 35.7 kt	R_{+6} = [ ]	Δ Grupo/Group = 1	METAR SLPS 072100Z 14022535KT 9999 BKN070 BKN200 19/04 Q1025		
V_{cor} = 25.9 kt					



Matthew Bruce Vallis (matthewbvallis@gmail.com) Tese de Doutorado/Doctorate Thesis, Porto Alegre: PPGEC/UFRGS, 2019
Modelo Climático para Ventos Extremos no Brasil/Brazilian Extreme Wind Climate

SLPS/85289 EVENTO/EVENT 25 - 25/09/1997, 15:00 UTC (MSS - WUNDERGROUND)

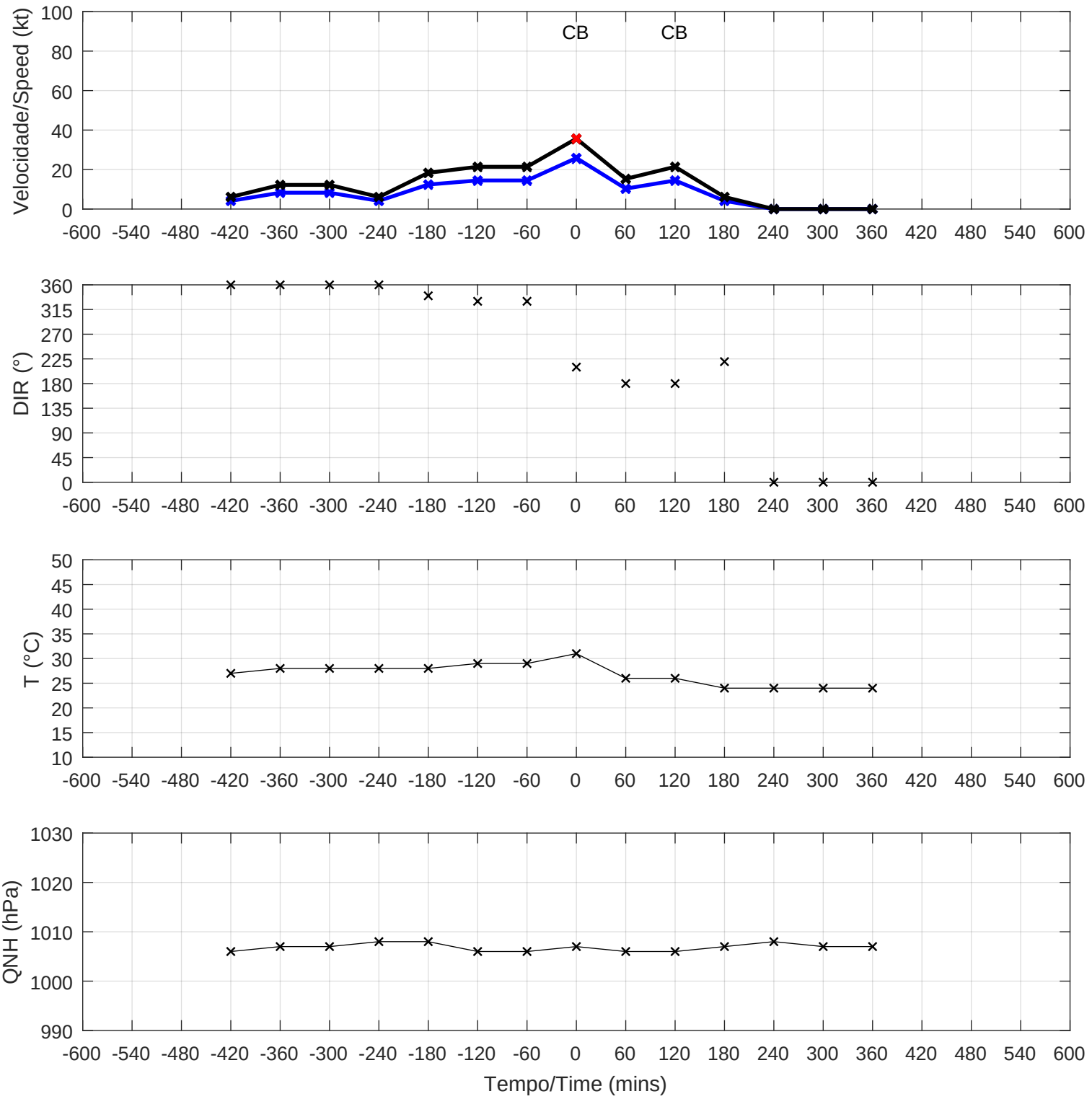
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G_{obs} = 35 kt	R_{-6} = 12.5	$T_{med,3}$ = 30.0 °C	DIR = 320°	SIM/YES	NÃO-SINÓTICO
V_{obs} = 20 kt	R_{-3} = 7.5	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = 90°		NON-SYNOPTIC
G_V = 1.8	R_{+3} = 2.2	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 150°		(114)
G_{cor} = 35.7 kt	R_{+6} = 3.0	Δ Grupo/Group = 3	METAR SLPS 251500Z 32020G35KT 3000 VCTSRA BKN020 FEW023CB SCT200 32/24 Q1012		
V_{cor} = 20.7 kt					



Matthew Bruce Vallis (matthewbvallis@gmail.com) Tese de Doutorado/Doctorate Thesis, Porto Alegre: PPGEC/UFRGS, 2019
Modelo Climático para Ventos Extremos no Brasil/Brazilian Extreme Wind Climate

SLPS/85289 EVENTO/EVENT 26 - 13/11/1997, 17:00 UTC (MSS - WUNDERGROUND)

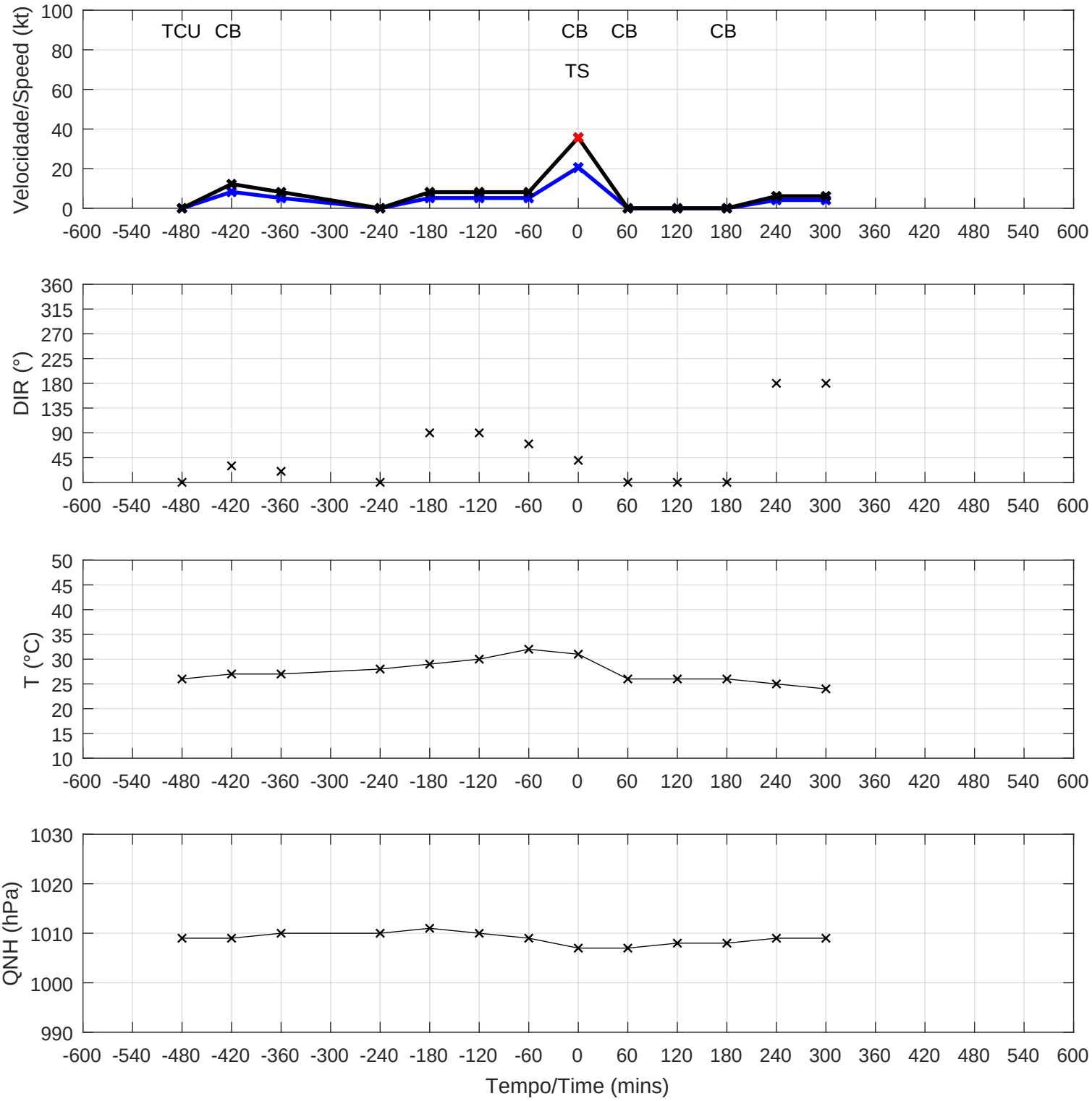
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G_{obs} = 35 kt	R_{-6} = 2.3	$T_{med,3}$ = 28.7 °C	DIR = 210°	NÃO/NO	NÃO-SINÓTICO
V_{obs} = 25 kt	R_{-3} = 1.8	$\Delta T_{min,3}$ = -5.0 °C	$\Delta DIR_{max,-3}$ = 130°		NON-SYNOPTIC
G_V = 1.4	R_{+3} = 2.5	$\Delta Q_{max,3}$ = 1.0 hPa	$\Delta DIR_{max,+3}$ = 30°		(111)
G_{cor} = 35.7 kt	R_{+6} = 5.0	Δ Grupo/Group = 2	METAR SLPS 131700Z 21025G35KT 3000 -RA SCT020 FEW023CB BKN070 31/23 Q1007		
V_{cor} = 25.9 kt					



Matthew Bruce Vallis (matthewbvallis@gmail.com) Tese de Doutorado/Doctorate Thesis, Porto Alegre: PPGEC/UFRGS, 2019
Modelo Climático para Ventos Extremos no Brasil/Brazilian Extreme Wind Climate

SLPS/85289 EVENTO/EVENT 27 - 23/03/1998, 18:00 UTC (MSS - WUNDERGROUND)

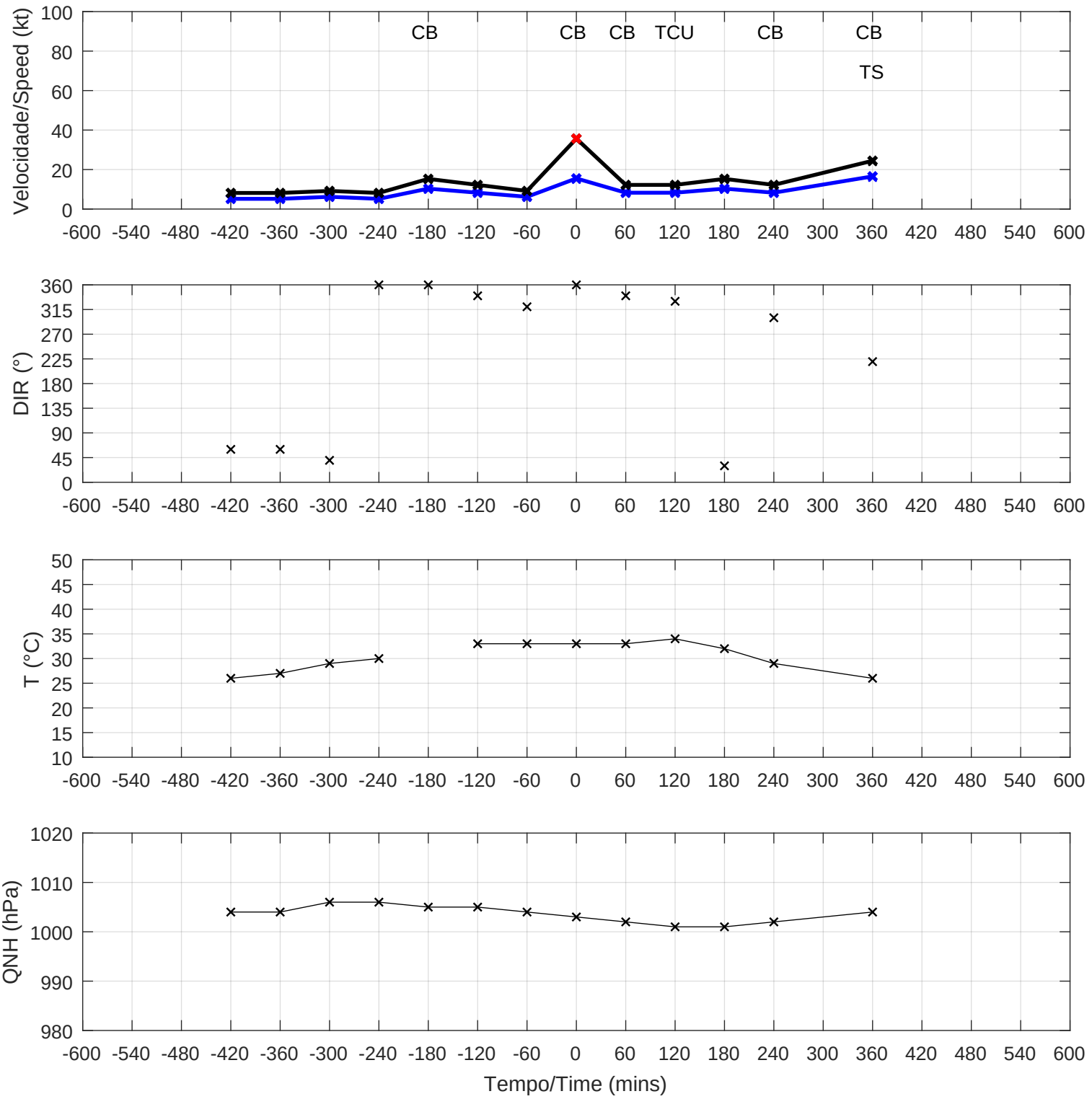
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G_{obs} = 35 kt	R_{-6} = 5.5	$T_{med,3}$ = 30.3 °C	DIR = 40°	SIM/YES	NÃO-SINÓTICO
V_{obs} = 20 kt	R_{-3} = 4.4	$\Delta T_{min,3}$ = -6.0 °C	$\Delta DIR_{max,-3}$ = 50°		NON-SYNOPTIC
G_V = 1.8	R_{+3} = Inf	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 0°		(114)
G_{cor} = 35.7 kt	R_{+6} = 14.6	Δ Grupo/Group = 3	METAR SLPS 231800Z 04020G35KT 9999 TS BKN020 FEW025CB BKN200 31/26 Q1007		
V_{cor} = 20.7 kt					



Matthew Bruce Vallis (matthewbvallis@gmail.com) Tese de Doutorado/Doctorate Thesis, Porto Alegre: PPGEC/UFRGS, 2019
Modelo Climático para Ventos Extremos no Brasil/Brazilian Extreme Wind Climate

SLPS/85289 EVENTO/EVENT 28 - 21/12/1998, 17:00 UTC (MSS - WUNDERGROUND)

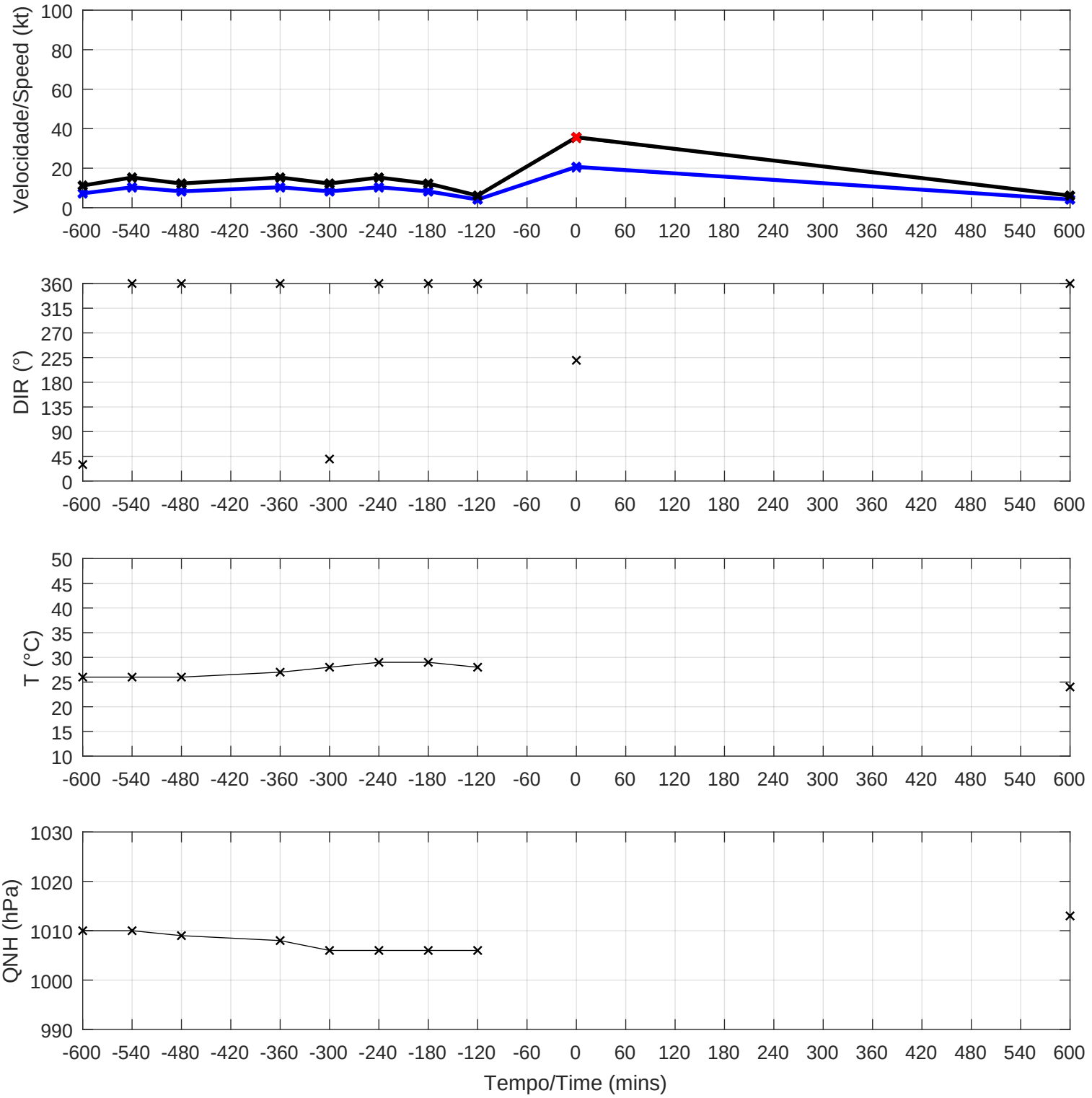
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G_{obs} = 35 kt	R_{-6} = 3.4	$T_{med,3}$ = 33.0 °C	DIR = 360°	NÃO/NO	NÃO-SINÓTICO
V_{obs} = 15 kt	R_{-3} = 2.9	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = 40°		NON-SYNOPTIC
G_V = 2.3	R_{+3} = 2.7	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 30°		(117)
G_{cor} = 35.7 kt	R_{+6} = 2.3	Δ Grupo/Group = 3	METAR SLPS 211700Z 36015G35KT 9999 BKN020 FEW023CB 33/25 Q1003		
V_{cor} = 15.5 kt					



Matthew Bruce Vallis (matthewbvallis@gmail.com) Tese de Doutorado/Doctorate Thesis, Porto Alegre: PPGEC/UFRGS, 2019
Modelo Climático para Ventos Extremos no Brasil/Brazilian Extreme Wind Climate

SLPS/85289 EVENTO/EVENT 29 - 16/04/1999, 00:00 UTC (MSS - WUNDERGROUND)

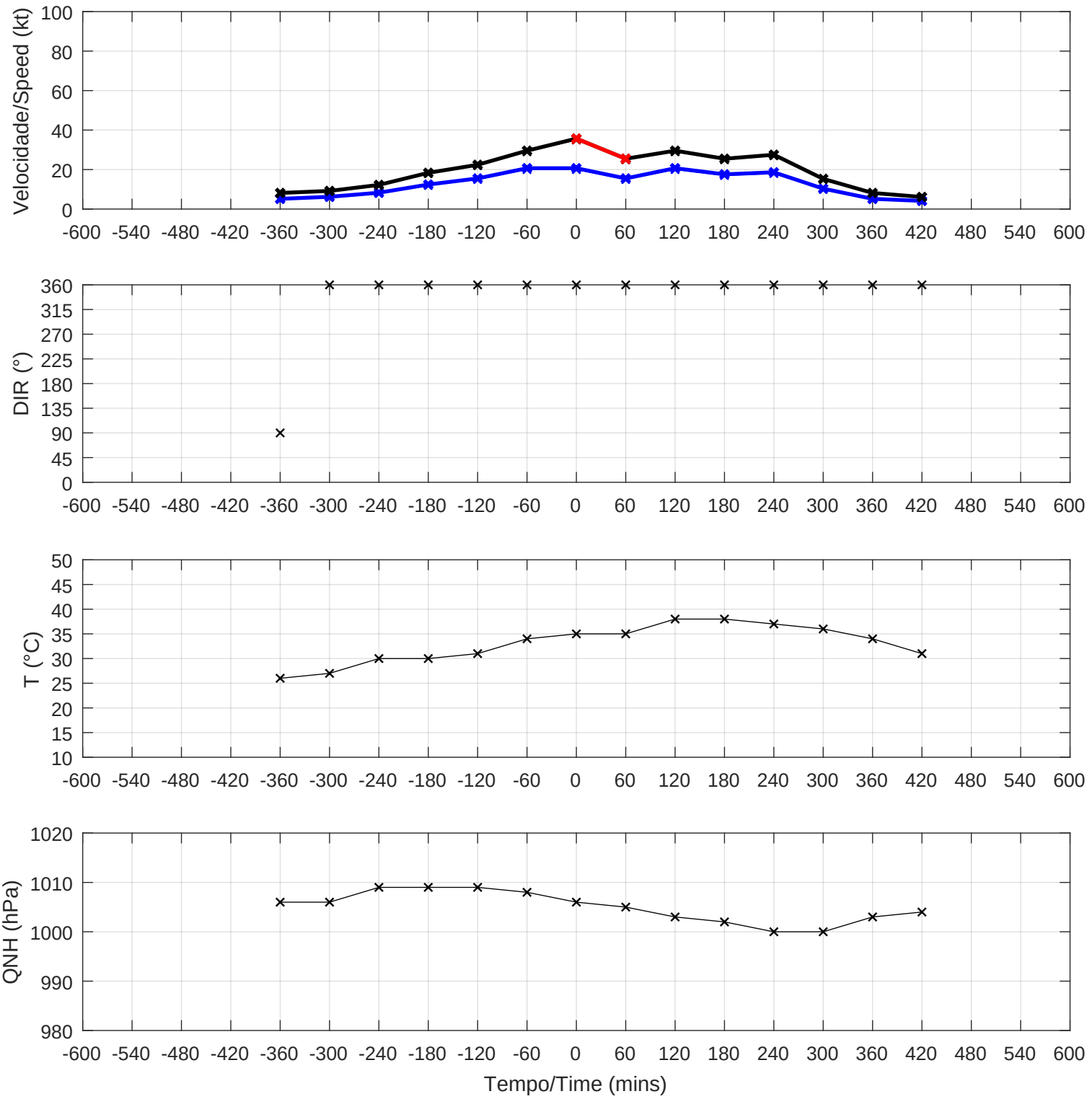
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G_{obs} = 35 kt	R_{-6} = 2.9	$T_{med,3}$ = 28.5 °C	DIR = 220°	NÃO/NO	NÃO-SINÓTICO
V_{obs} = 20 kt	R_{-3} = 3.9	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = 140°		NON-SYNOPTIC
G_V = 1.8	R_{+3} = [ ]	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = [ ]		(117)
G_{cor} = 35.7 kt	R_{+6} = [ ]	Δ Grupo/Group = 3	METAR SLPS 160000Z 22020G35KT 5000 -DZ BKN005 OVC020 15/14 Q1020		
V_{cor} = 20.7 kt					



Matthew Bruce Vallis (matthewbvallis@gmail.com) Tese de Doutorado/Doctorate Thesis, Porto Alegre: PPGEC/UFRGS, 2019
Modelo Climático para Ventos Extremos no Brasil/Brazilian Extreme Wind Climate

SLPS/85289 EVENTO/EVENT 30 - 30/09/2001, 16:00 UTC (MSS - WUNDERGROUND)

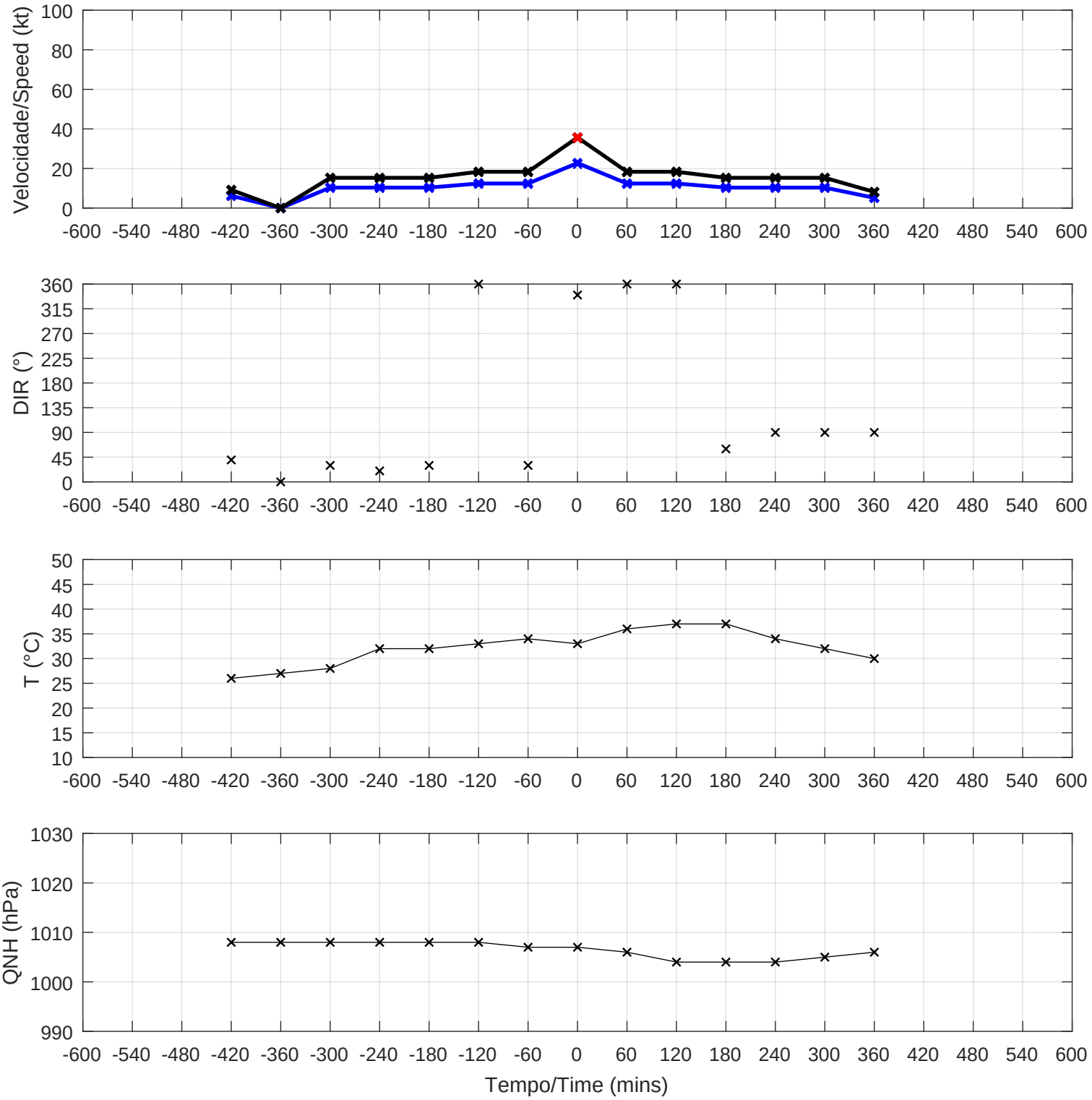
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G_{obs} = 35 kt	R_{-6} = 2.1	$T_{med,3}$ = 31.7 °C	DIR = 360°	NÃO/NO	SINÓTICO
V_{obs} = 20 kt	R_{-3} = 1.5	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = 0°		SYNOPTIC
G_V = 1.8	R_{+3} = 1.3	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 0°		(215)
G_{cor} = 35.7 kt	R_{+6} = 1.6	Δ Grupo/Group = 3	METAR SLPS 301600Z 36020G35KT 6000 FEW020 35/23 Q1006		
V_{cor} = 20.7 kt					



Matthew Bruce Vallis (matthewbvallis@gmail.com) Tese de Doutorado/Doctorate Thesis, Porto Alegre: PPGEC/UFRGS, 2019
Modelo Climático para Ventos Extremos no Brasil/Brazilian Extreme Wind Climate

SLPS/85289 EVENTO/EVENT 31 - 27/10/2001, 17:00 UTC (MSS - WUNDERGROUND)

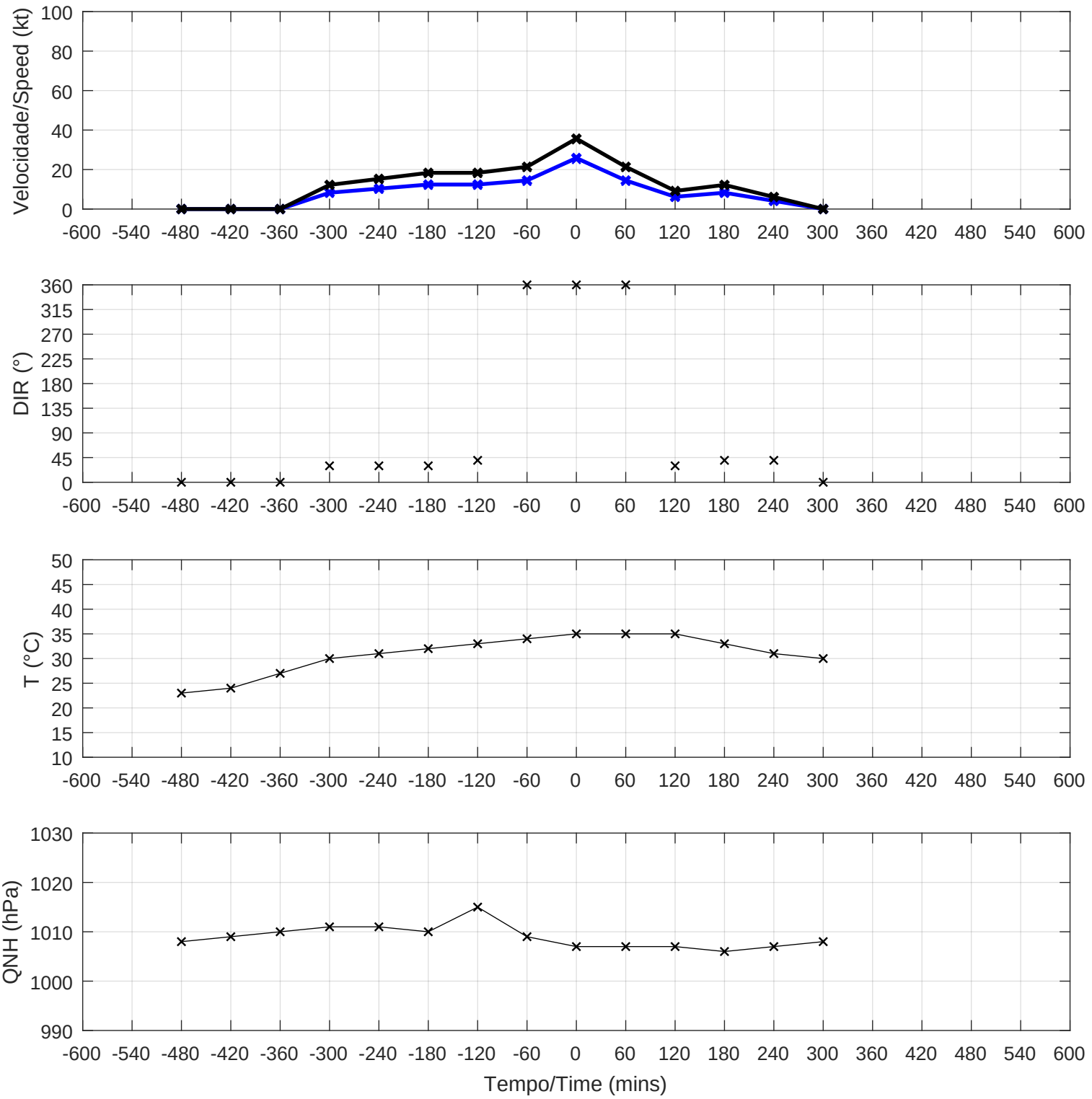
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G_{obs} = 35 kt	R_{-6} = 2.6	$T_{med,3}$ = 33.0 °C	DIR = 340°	NÃO/NO	NÃO-SINÓTICO
V_{obs} = 22 kt	R_{-3} = 2.1	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = 50°		NON-SYNOPTIC
G_V = 1.6	R_{+3} = 2.1	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 80°		(117)
G_{cor} = 35.7 kt	R_{+6} = 2.4	Δ Grupo/Group = 3	METAR SLPS 271700Z 34022G35KT 5000 FU SCT020 33/23 Q1007		
V_{cor} = 22.7 kt					



Matthew Bruce Vallis (matthewbvallis@gmail.com) Tese de Doutorado/Doctorate Thesis, Porto Alegre: PPGEC/UFRGS, 2019
Modelo Climático para Ventos Extremos no Brasil/Brazilian Extreme Wind Climate

SLPS/85289 EVENTO/EVENT 32 - 30/03/2002, 18:00 UTC (MSS - WUNDERGROUND)

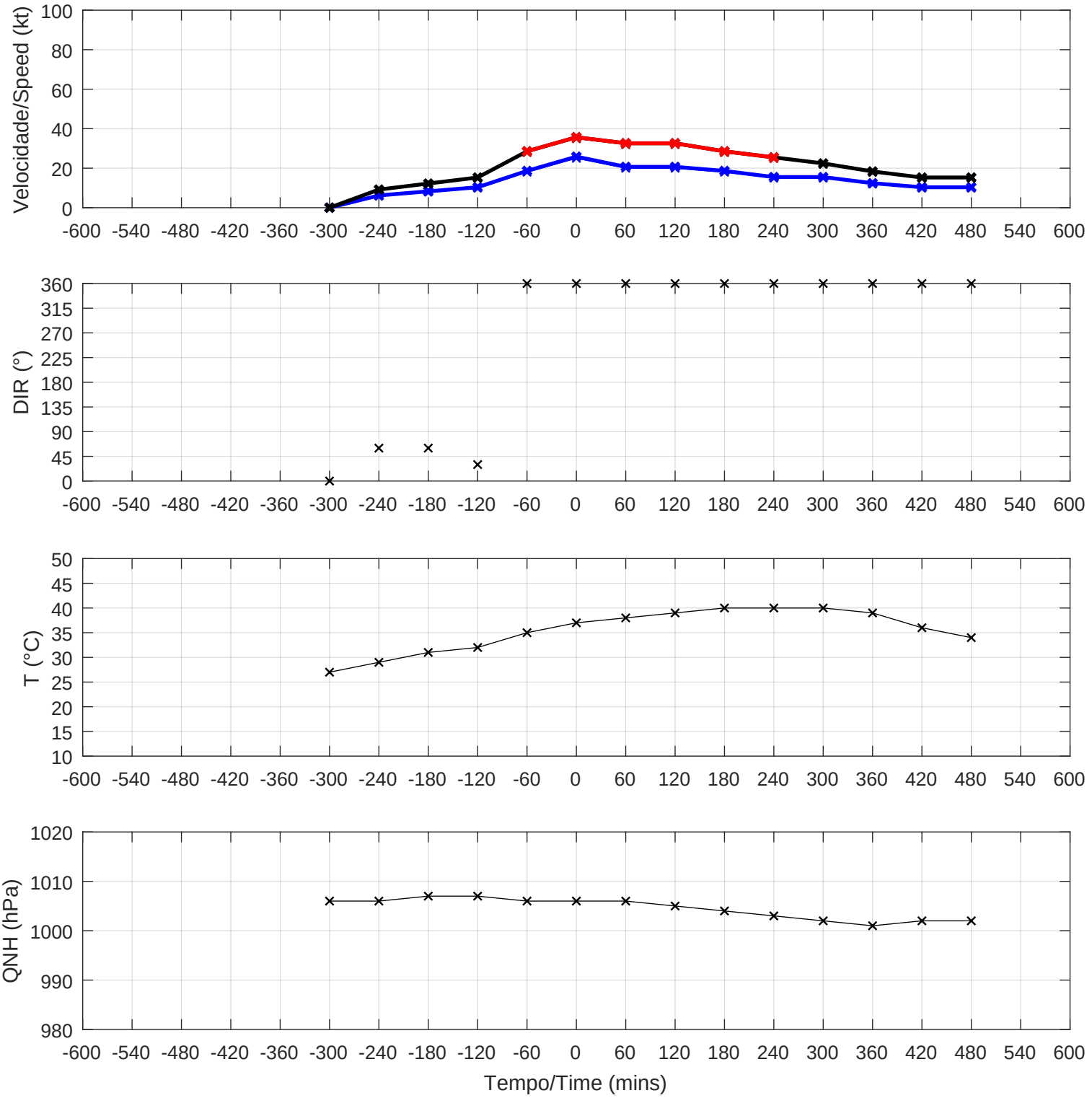
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G* = 35 kt	R_{-6} = 2.5	$T_{med,3}$ = 33.0 °C	DIR = 360°	NÃO/NO	SINÓTICO
V_{obs} = 25 kt	R_{-3} = 1.8	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = 40°		SYNOPTIC
G_V = [ ]	R_{+3} = 2.5	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 40°		(225)
G_{cor} = 35.7 kt	R_{+6} = 3.6	Δ Grupo/Group = 3	METAR SLPS 301800Z 36025KT 9999 SCT020 35/24 Q1007		
V_{cor} = 25.9 kt					



Matthew Bruce Vallis (matthewbvallis@gmail.com) Tese de Doutorado/Doctorate Thesis, Porto Alegre: PPGEC/UFRGS, 2019
Modelo Climático para Ventos Extremos no Brasil/Brazilian Extreme Wind Climate

SLPS/85289 EVENTO/EVENT 33 - 20/11/2002, 15:00 UTC (MSS - WUNDERGROUND)

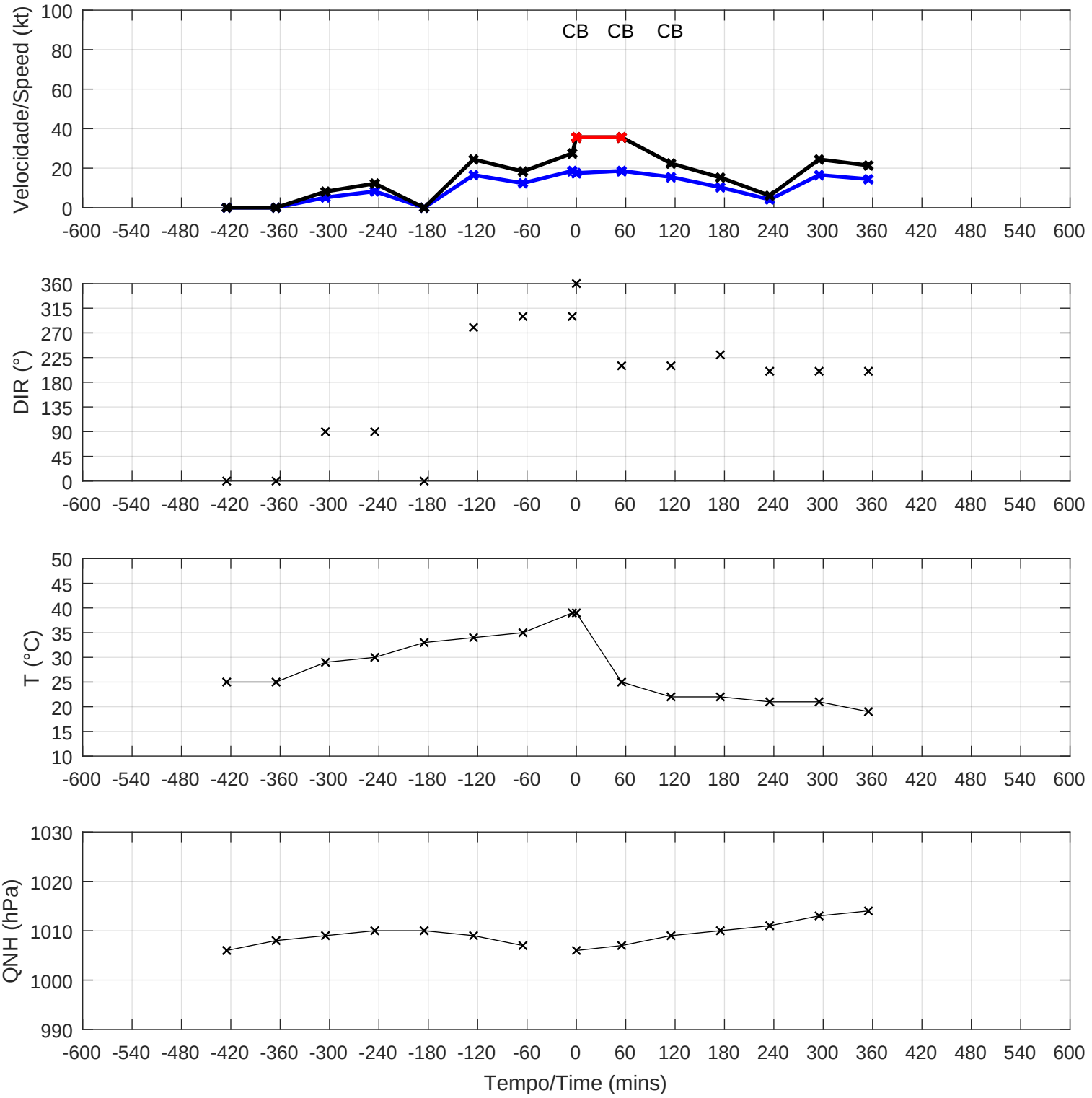
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G_{obs} = 35 kt	R_{-6} = 2.7	$T_{med,3}$ = 32.7 °C	DIR = 360°	NÃO/NO	SINÓTICO
V_{obs} = 25 kt	R_{-3} = 1.9	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = 60°		SYNOPTIC
G_V = 1.4	R_{+3} = 1.1	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 0°		(215)
G_{cor} = 35.7 kt	R_{+6} = 1.3	Δ Grupo/Group = 3	METAR SLPS 201500Z 36025G35KT 9999 FEW020 37/23 Q1006		
V_{cor} = 25.9 kt					



Matthew Bruce Vallis (matthewbvallis@gmail.com) Tese de Doutorado/Doctorate Thesis, Porto Alegre: PPGEC/UFRGS, 2019
Modelo Climático para Ventos Extremos no Brasil/Brazilian Extreme Wind Climate

SLPS/85289 EVENTO/EVENT 36 - 07/10/2010, 17:05 UTC (MSS - REDEMET)

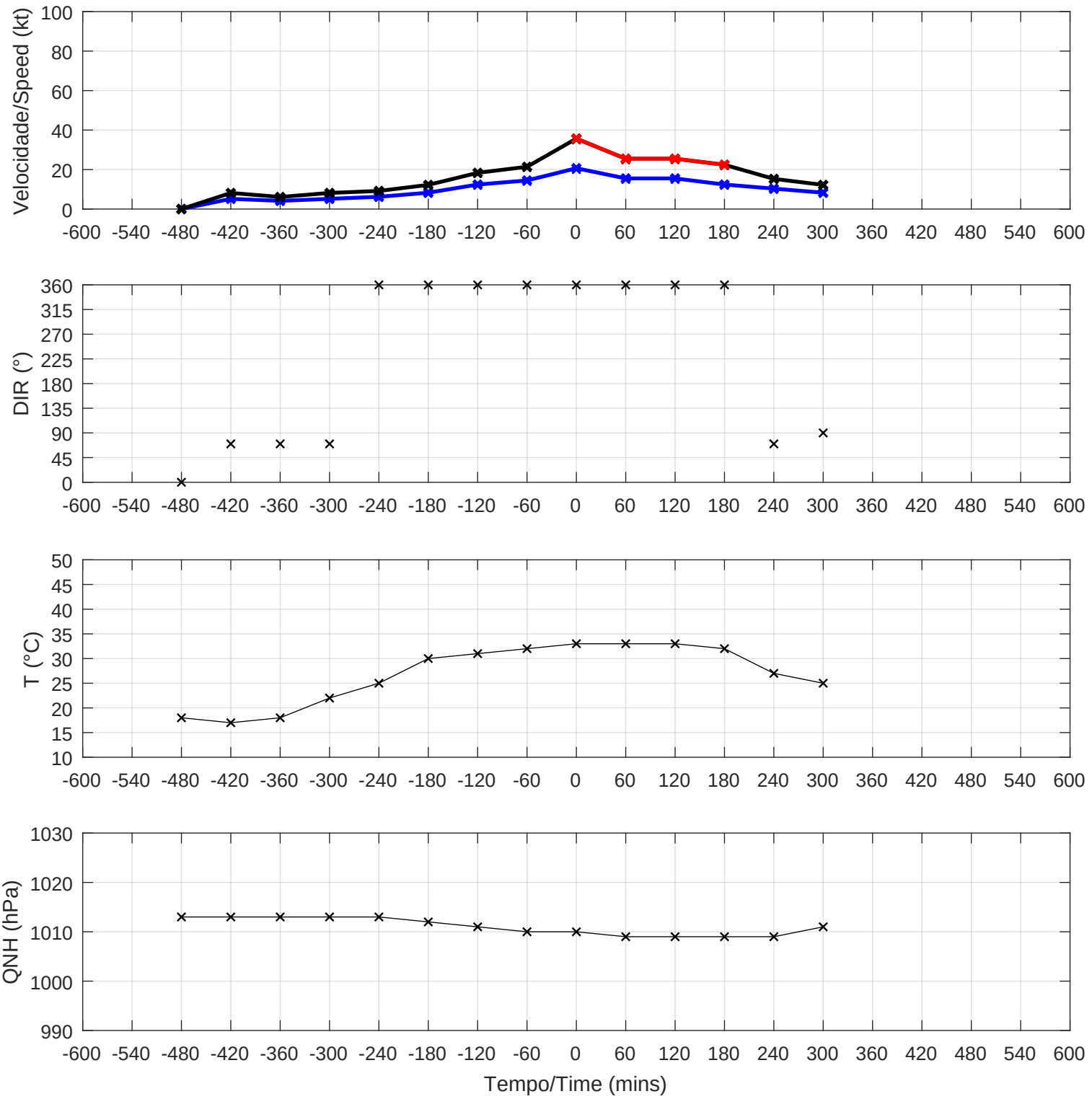
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G_{obs} = 35 kt	R_{-6} = 2.8	$T_{med,3}$ = 34.5 °C	DIR = 360°	NÃO/NO	SINÓTICO
V_{obs} = 17 kt	R_{-3} = 1.6	$\Delta T_{min,3}$ = -14.0 °C	$\Delta DIR_{max,-3}$ = 80°		SYNOPTIC
G_V = 2.1	R_{+3} = 1.5	$\Delta Q_{max,3}$ = 1.0 hPa	$\Delta DIR_{max,+3}$ = 150°		(212)
G_{cor} = 35.7 kt	R_{+6} = 1.7	Δ Grupo/Group = 1	SLPS 071705Z 36017G35KT 9999 BKN027 FEW030CB 39/21 Q1006=		
V_{cor} = 17.6 kt					



Matthew Bruce Vallis (matthewbvallis@gmail.com) Tese de Doutorado/Doctorate Thesis, Porto Alegre: PPGEC/UFRGS, 2019
Modelo Climático para Ventos Extremos no Brasil/Brazilian Extreme Wind Climate

SLPS/85289 EVENTO/EVENT 39 - 21/07/2012, 18:00 UTC (MSS - REDEMET)

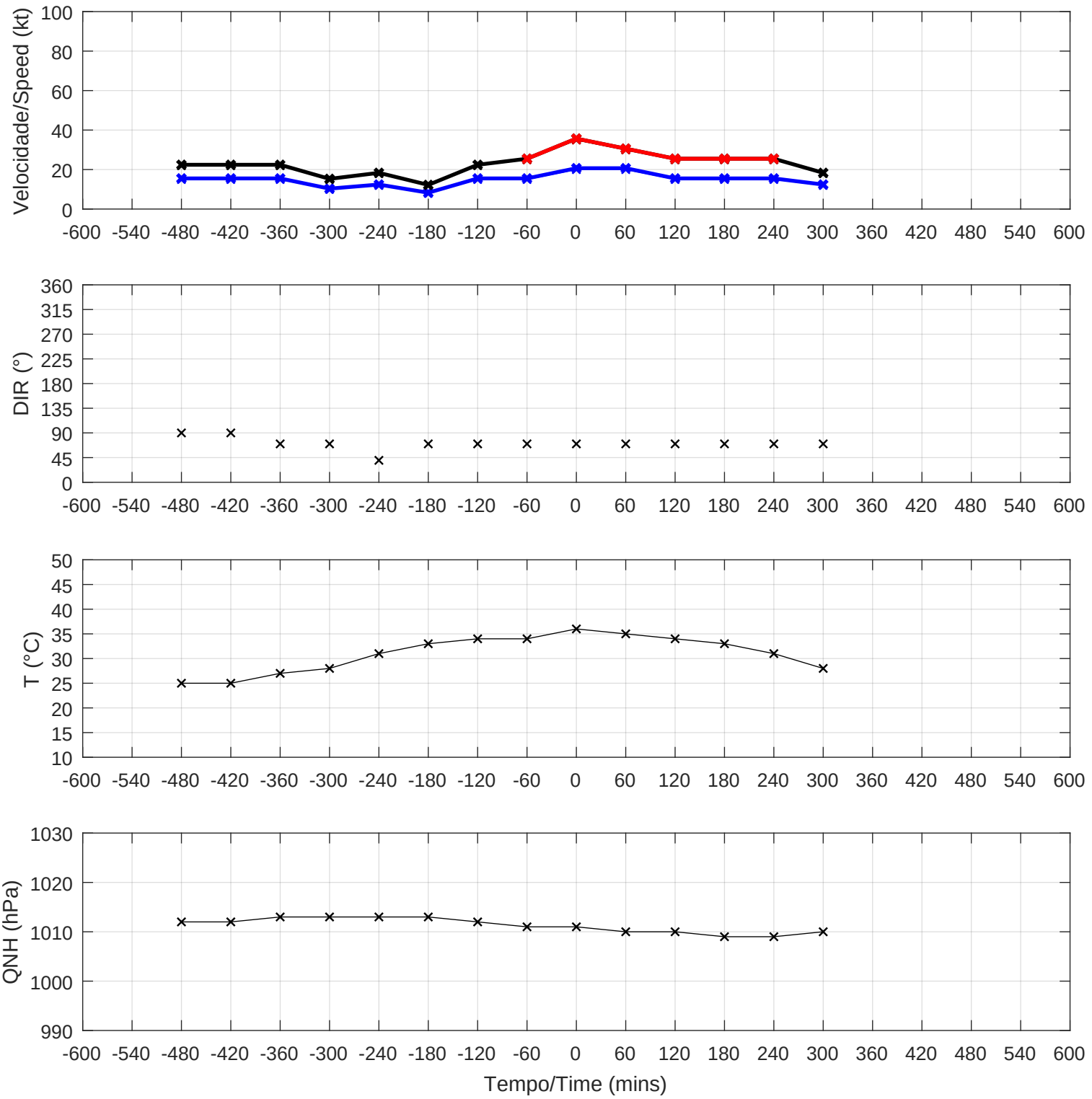
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G_{obs} = 35 kt	R_{-6} = 2.8	$T_{med,3}$ = 31.0 °C	DIR = 360°	NÃO/NO	SINÓTICO
V_{obs} = 20 kt	R_{-3} = 2.1	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = 0°		SYNOPTIC
G_V = 1.8	R_{+3} = 1.5	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 0°		(214)
G_{cor} = 35.7 kt	R_{+6} = 1.8	Δ Grupo/Group = 3	METAR SLPS 211800Z 36020G35KT 9999 NSC 33/16 Q1010=		
V_{cor} = 20.7 kt					



Matthew Bruce Vallis (matthewbvallis@gmail.com) Tese de Doutorado/Doctorate Thesis, Porto Alegre: PPGEC/UFRGS, 2019
Modelo Climático para Ventos Extremos no Brasil/Brazilian Extreme Wind Climate

SLPS/85289 EVENTO/EVENT 40 - 17/08/2012, 18:00 UTC (MSS - REDEMET)

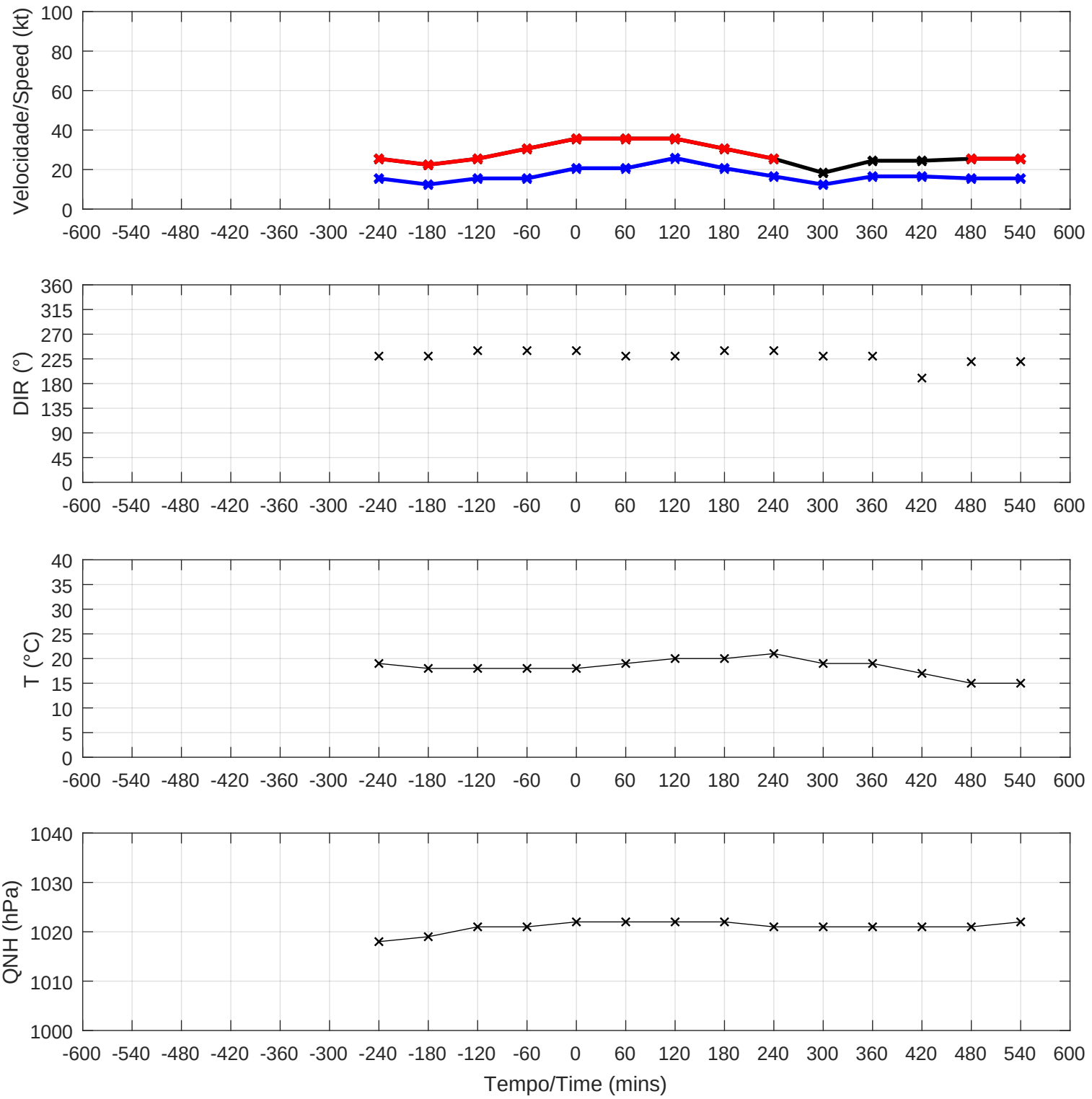
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G_{obs} = 35 kt	R_{-6} = 1.8	$T_{med,3}$ = 33.7 °C	DIR = 70°	NÃO/NO	SINÓTICO
V_{obs} = 20 kt	R_{-3} = 1.8	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = 0°		SYNOPTIC
G_V = 1.8	R_{+3} = 1.3	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 0°		(215)
G_{cor} = 35.7 kt	R_{+6} = 1.4	Δ Grupo/Group = 3	METAR SLPS 171800Z 07020G35KT 6000 FEW025 36/19 Q1011=		
V_{cor} = 20.7 kt					



Matthew Bruce Vallis (matthewbvallis@gmail.com) Tese de Doutorado/Doctorate Thesis, Porto Alegre: PPGEC/UFRGS, 2019
Modelo Climático para Ventos Extremos no Brasil/Brazilian Extreme Wind Climate

SLPS/85289 EVENTO/EVENT 41 - 25/08/2012, 14:00 UTC (MSS - REDEMET)

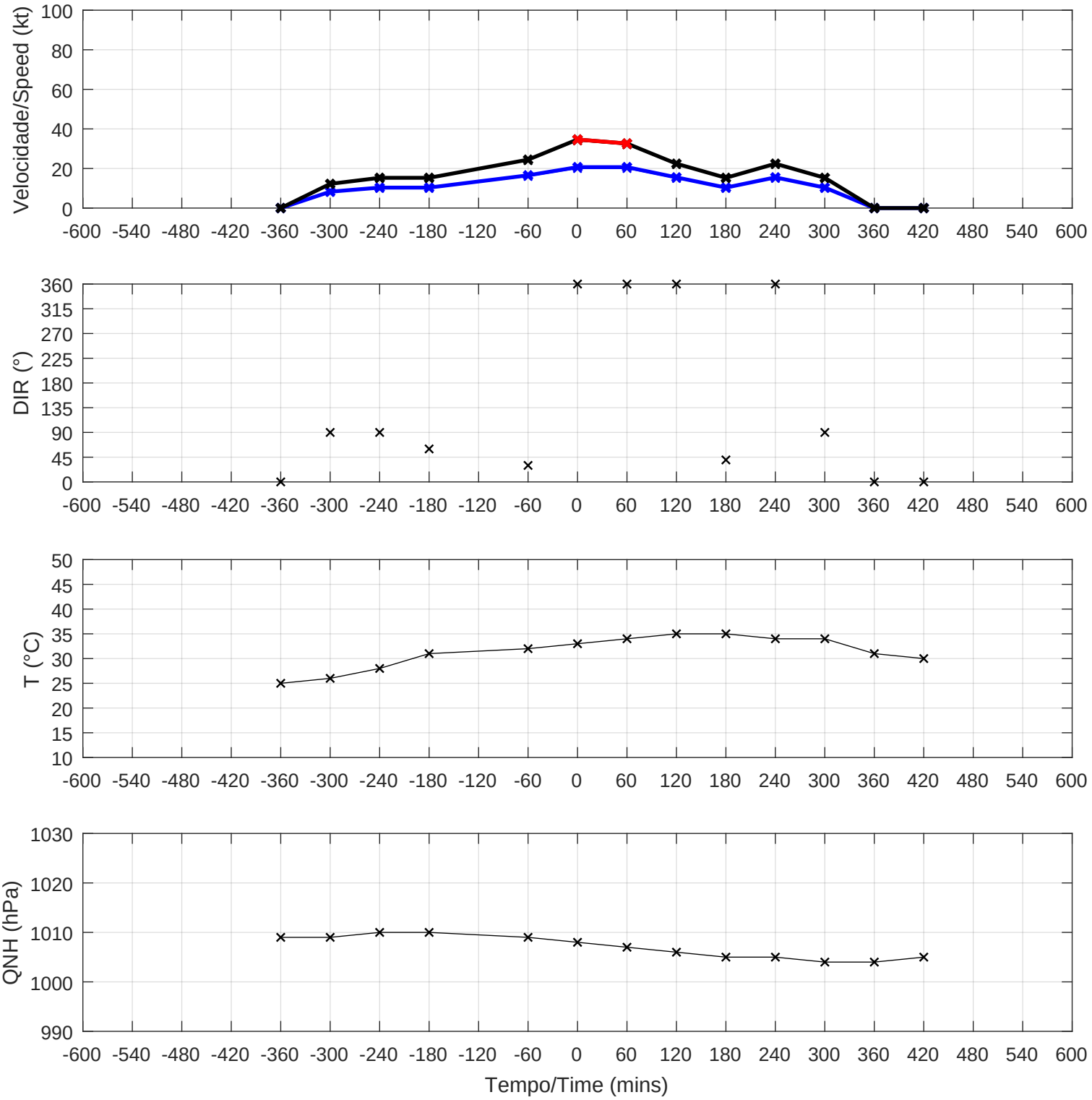
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G_{obs} = 35 kt	R_{-6} = 1.4	$T_{med,3}$ = 18.0 °C	DIR = 240°	NÃO/NO	SINÓTICO
V_{obs} = 20 kt	R_{-3} = 1.4	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = 10°		SYNOPTIC
G_V = 1.8	R_{+3} = 1.0	$\Delta Q_{max,3}$ = 1.0 hPa	$\Delta DIR_{max,+3}$ = 10°		(215)
G_{cor} = 35.7 kt	R_{+6} = 1.3	Δ Grupo/Group = 3	METAR SLPS 251400Z 24020G35KT 6000 BKN070 18/10 Q1022=		
V_{cor} = 20.7 kt					



Matthew Bruce Vallis (matthewbvallis@gmail.com) Tese de Doutorado/Doctorate Thesis, Porto Alegre: PPGEC/UFRGS, 2019
Modelo Climático para Ventos Extremos no Brasil/Brazilian Extreme Wind Climate

SLPS/85289 EVENTO/EVENT 43 - 10/11/2001, 16:00 UTC (MSS - WUNDERGROUND)

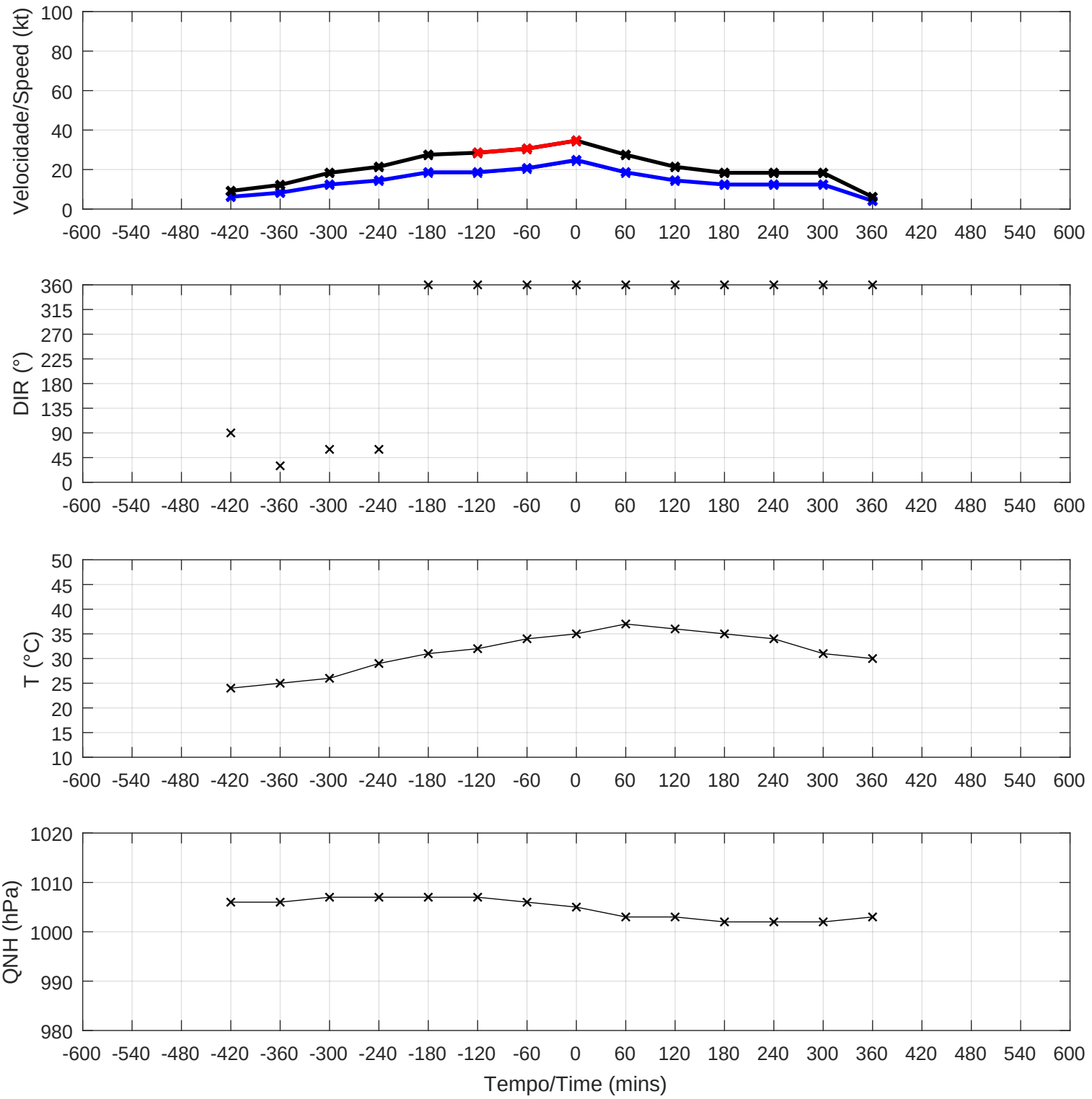
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G_{obs} = 34 kt	R_{-6} = 2.6	$T_{med,3}$ = 31.5 °C	DIR = 360°	NÃO/NO	SINÓTICO
V_{obs} = 20 kt	R_{-3} = 1.7	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = 60°		SYNOPTIC
G_V = 1.7	R_{+3} = 1.5	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 40°		(215)
G_{cor} = 34.7 kt	R_{+6} = 1.9	Δ Grupo/Group = 3	METAR SLPS 101600Z 36020G34KT 9999 BKN020 33/24 Q1008		
V_{cor} = 20.7 kt					



Matthew Bruce Vallis (matthewbvallis@gmail.com) Tese de Doutorado/Doctorate Thesis, Porto Alegre: PPGEC/UFRGS, 2019
Modelo Climático para Ventos Extremos no Brasil/Brazilian Extreme Wind Climate

SLPS/85289 EVENTO/EVENT 44 - 22/07/2007, 17:00 UTC (MSS - WUNDERGROUND)

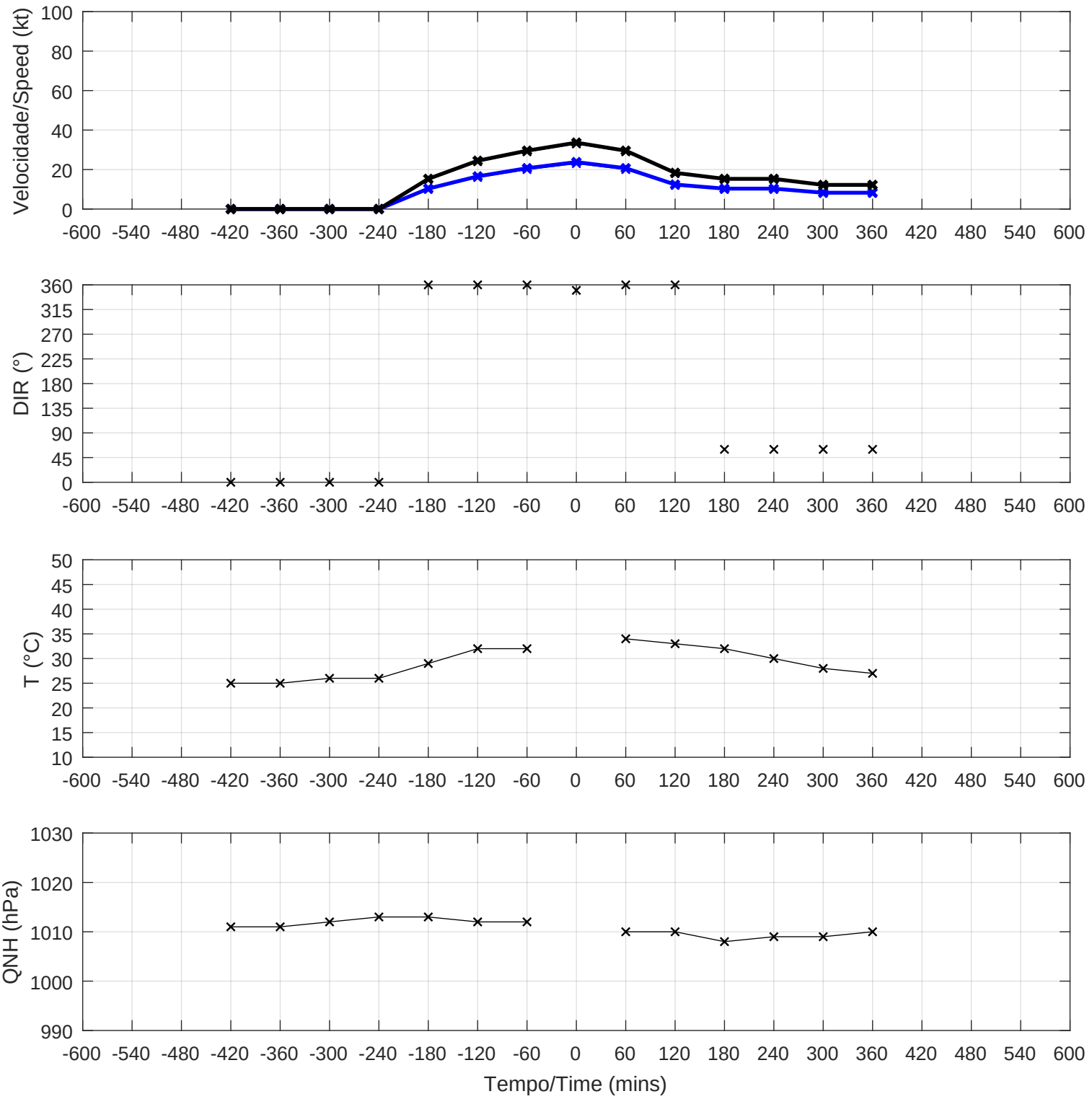
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G_{obs} = 34 kt	R_{-6} = 1.5	$T_{med,3}$ = 32.3 °C	DIR = 360°	NÃO/NO	SINÓTICO
V_{obs} = 24 kt	R_{-3} = 1.2	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = 0°		SYNOPTIC
G_V = 1.4	R_{+3} = 1.5	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 0°		(215)
G_{cor} = 34.7 kt	R_{+6} = 1.9	Δ Grupo/Group = 3	METAR SLPS 221700Z 36024G34KT 9999 FEW030 SCT200 35/19 Q1005		
V_{cor} = 24.8 kt					



Matthew Bruce Vallis (matthewbvallis@gmail.com) Tese de Doutorado/Doctorate Thesis, Porto Alegre: PPGEC/UFRGS, 2019
Modelo Climático para Ventos Extremos no Brasil/Brazilian Extreme Wind Climate

SLPS/85289 EVENTO/EVENT 46 - 19/08/1997, 17:00 UTC (MSS - WUNDERGROUND)

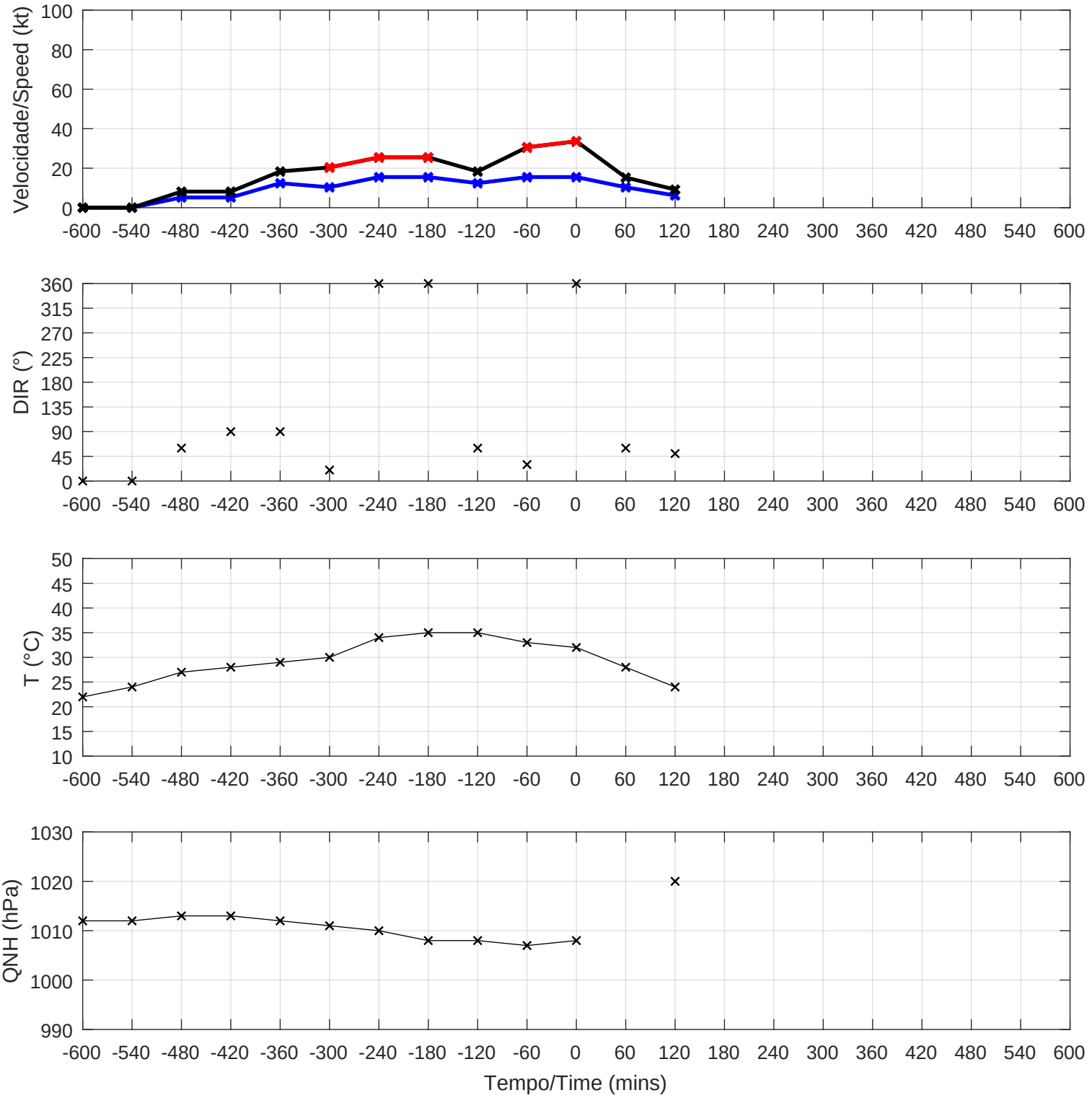
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G* = 33 kt	R_{-6} = 2.9	$T_{med,3}$ = 31.0 °C	DIR = 350°	NÃO/NO	SINÓTICO
V_{obs} = 23 kt	R_{-3} = 1.5	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = 10°		SYNOPTIC
G_V = [ ]	R_{+3} = 1.6	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 70°		(225)
G_{cor} = 33.6 kt	R_{+6} = 2.0	Δ Grupo/Group = 3	METAR SLPS 191700Z 35023KT 9000 CHECK TEXT NEW ENDING ADDED KATLYTAA		
V_{cor} = 23.8 kt					



Matthew Bruce Vallis (matthewbvallis@gmail.com) Tese de Doutorado/Doctorate Thesis, Porto Alegre: PPGEC/UFRGS, 2019
Modelo Climático para Ventos Extremos no Brasil/Brazilian Extreme Wind Climate

SLPS/85289 EVENTO/EVENT 47 - 06/08/1999, 21:00 UTC (MSS - WUNDERGROUND)

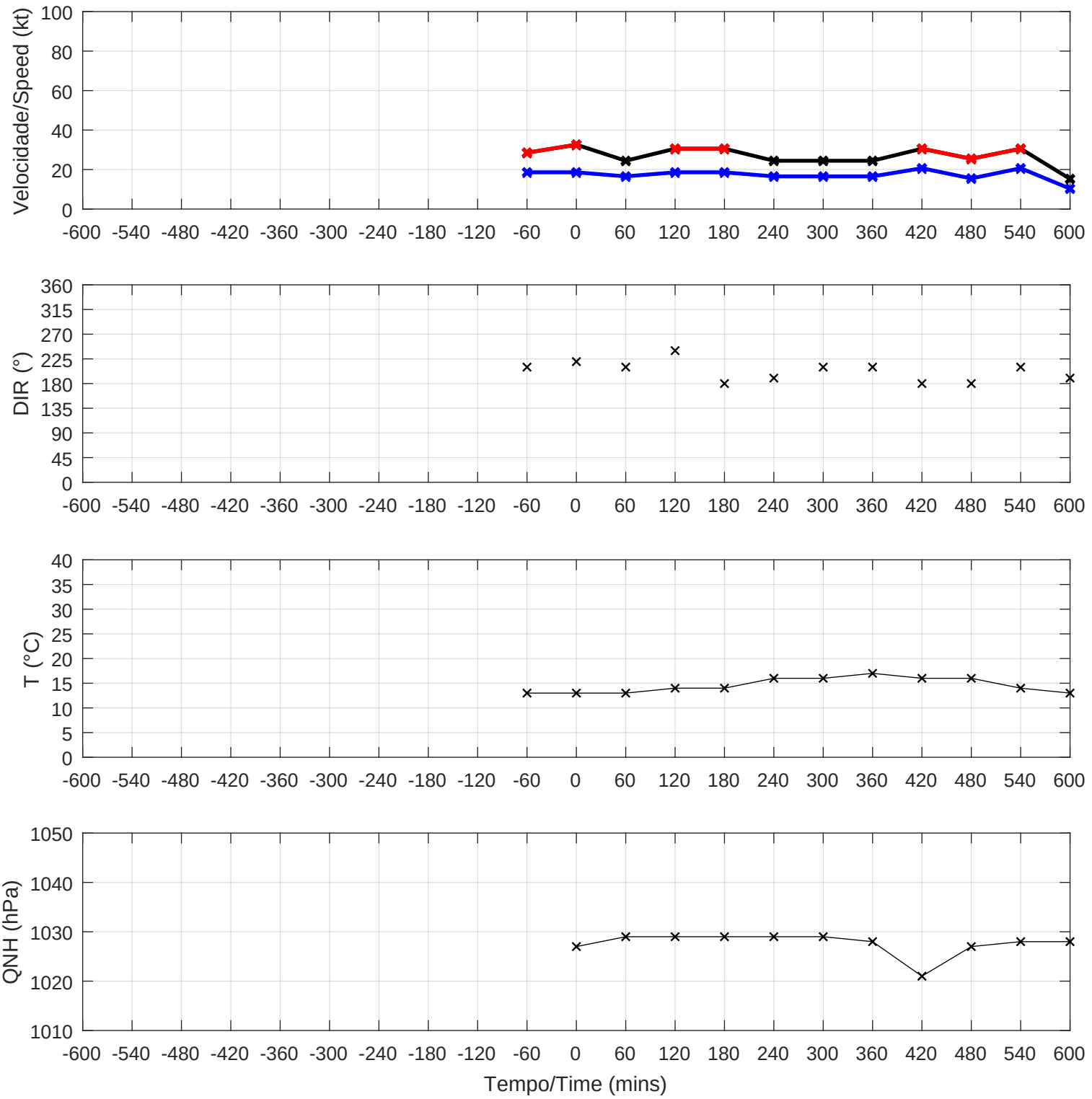
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G_{obs} = 33 kt	R_{-6} = 1.5	$T_{med,3}$ = 34.3 °C	DIR = 360°	NÃO/NO	SINÓTICO
V_{obs} = 15 kt	R_{-3} = 1.4	$\Delta T_{min,3}$ = -7.0 °C	$\Delta DIR_{max,-3}$ = 60°		SYNOPTIC
G_V = 2.2	R_{+3} = 2.8	$\Delta Q_{max,3}$ = 1.0 hPa	$\Delta DIR_{max,+3}$ = 60°		(211)
G_{cor} = 33.6 kt	R_{+6} = [ ]	Δ Grupo/Group = 2	METAR SLPS 062100Z 36015G33KT 8000 SKC 32/17 Q1008		
V_{cor} = 15.5 kt					



Matthew Bruce Vallis (matthewbvallis@gmail.com) Tese de Doutorado/Doctorate Thesis, Porto Alegre: PPGEC/UFRGS, 2019
Modelo Climático para Ventos Extremos no Brasil/Brazilian Extreme Wind Climate

SLPS/85289 EVENTO/EVENT 50 - 14/08/1999, 12:00 UTC (MSS - WUNDERGROUND)

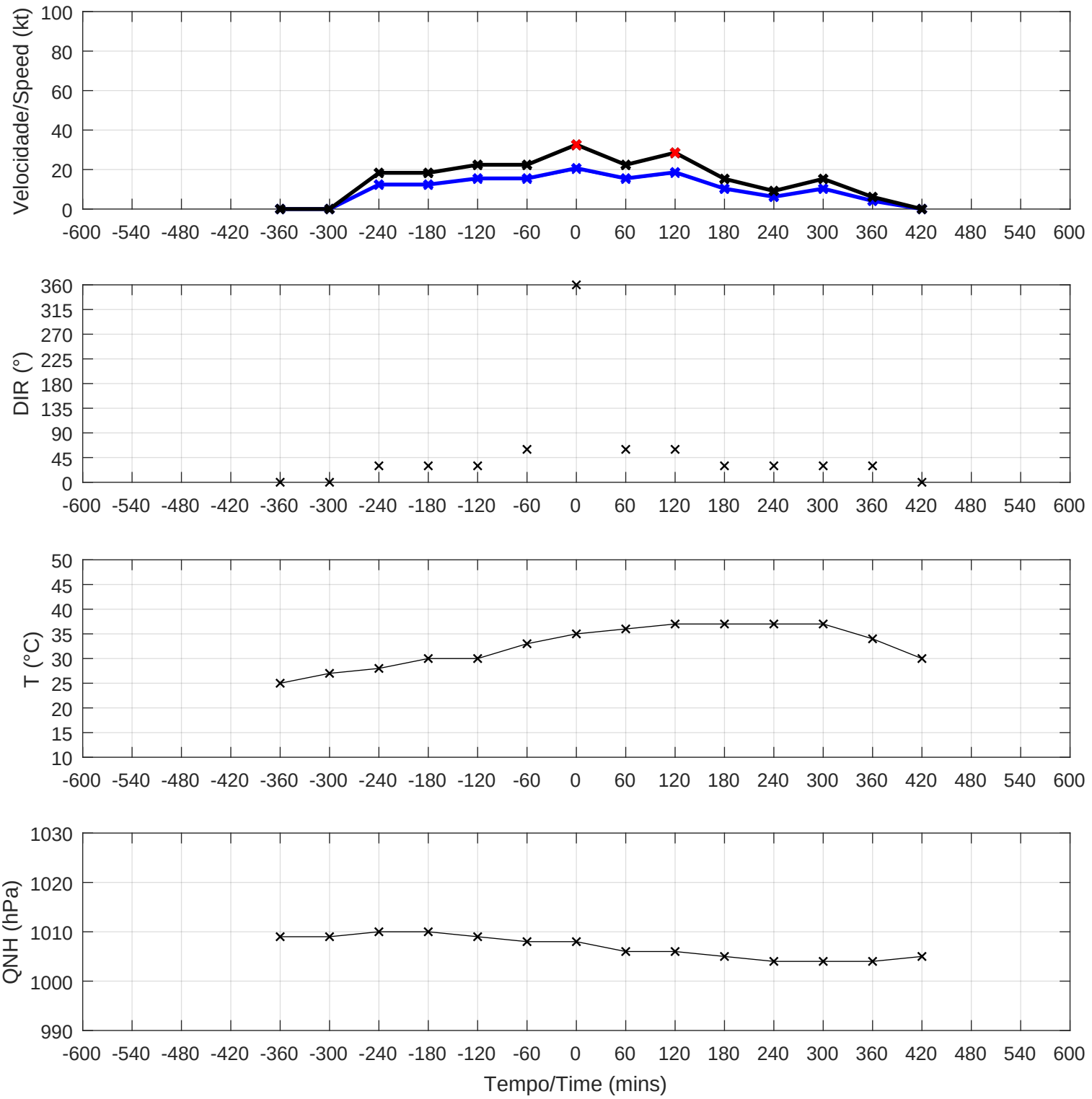
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G_{obs} = 32 kt	R_{-6} = [ ]	$T_{med,3}$ = 13.0 °C	DIR = 220°	NÃO/NO	SINÓTICO
V_{obs} = 18 kt	R_{-3} = 1.1	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = 10°		SYNOPTIC
G_V = 1.8	R_{+3} = 1.1	$\Delta Q_{max,3}$ = 2.0 hPa	$\Delta DIR_{max,+3}$ = 40°		(215)
G_{cor} = 32.6 kt	R_{+6} = 1.2	Δ Grupo/Group = 3	METAR SLPS 141200Z 22018G32KT 9999 BKN027 OVC200 13/02 Q1027		
V_{cor} = 18.6 kt					



Matthew Bruce Vallis (matthewbvallis@gmail.com) Tese de Doutorado/Doctorate Thesis, Porto Alegre: PPGEC/UFRGS, 2019
Modelo Climático para Ventos Extremos no Brasil/Brazilian Extreme Wind Climate

SLPS/85289 EVENTO/EVENT 52 - 01/12/2002, 16:00 UTC (MSS - REDEMET)

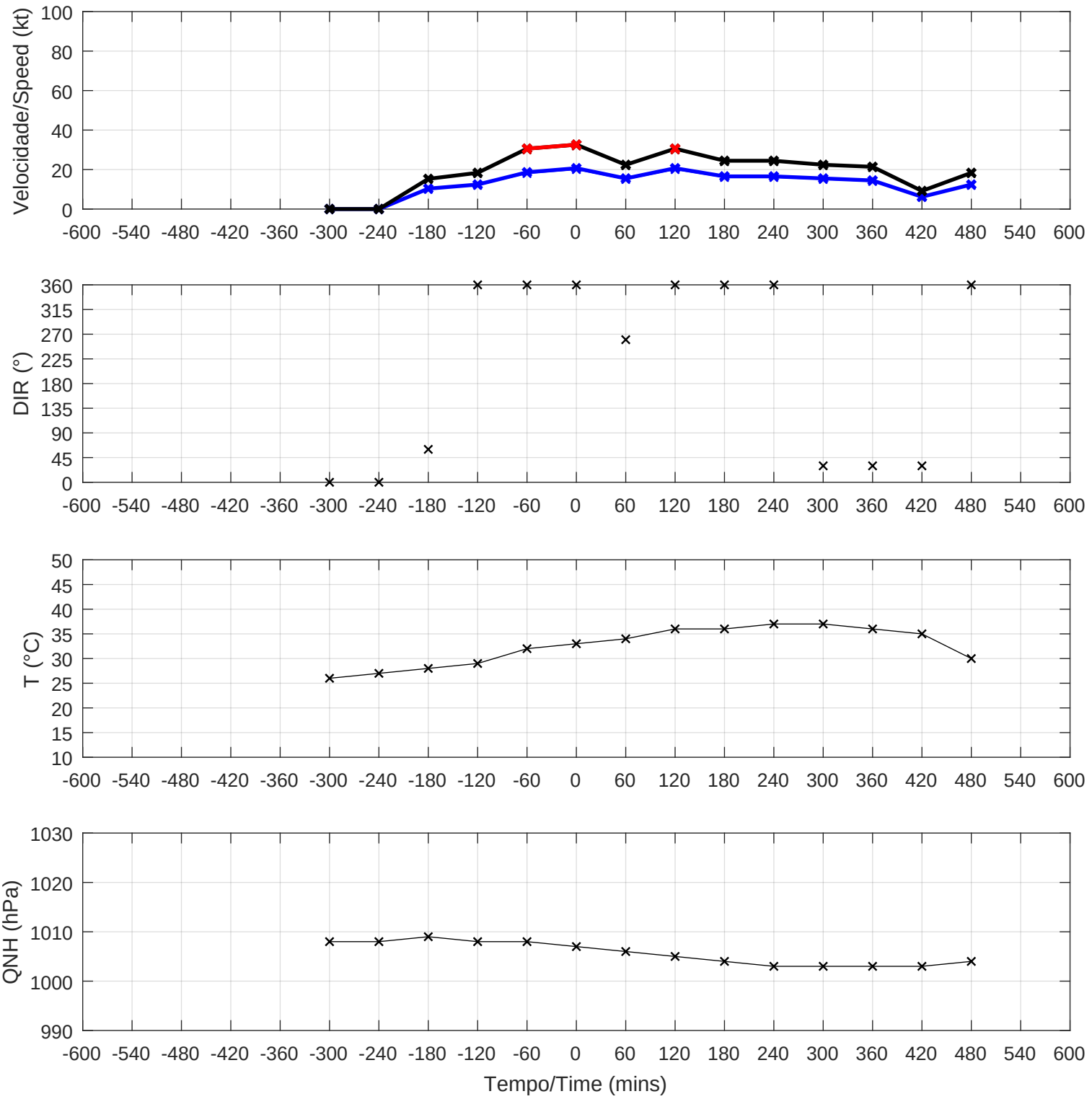
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G_{obs} = 32 kt	R_{-6} = 2.4	$T_{med,3}$ = 31.0 °C	DIR = 360°	NÃO/NO	SINÓTICO
V_{obs} = 20 kt	R_{-3} = 1.5	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = 60°		SYNOPTIC
G_V = 1.6	R_{+3} = 1.5	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 60°		(214)
G_{cor} = 32.6 kt	R_{+6} = 2.0	Δ Grupo/Group = 3	SLPS 011600Z 36020G32KT 9999 SCT023 35/24 Q1008=		
V_{cor} = 20.7 kt					



Matthew Bruce Vallis (matthewbvallis@gmail.com) Tese de Doutorado/Doctorate Thesis, Porto Alegre: PPGEC/UFRGS, 2019
Modelo Climático para Ventos Extremos no Brasil/Brazilian Extreme Wind Climate

SLPS/85289 EVENTO/EVENT 53 - 16/11/2003, 15:00 UTC (MSS - REDEMET)

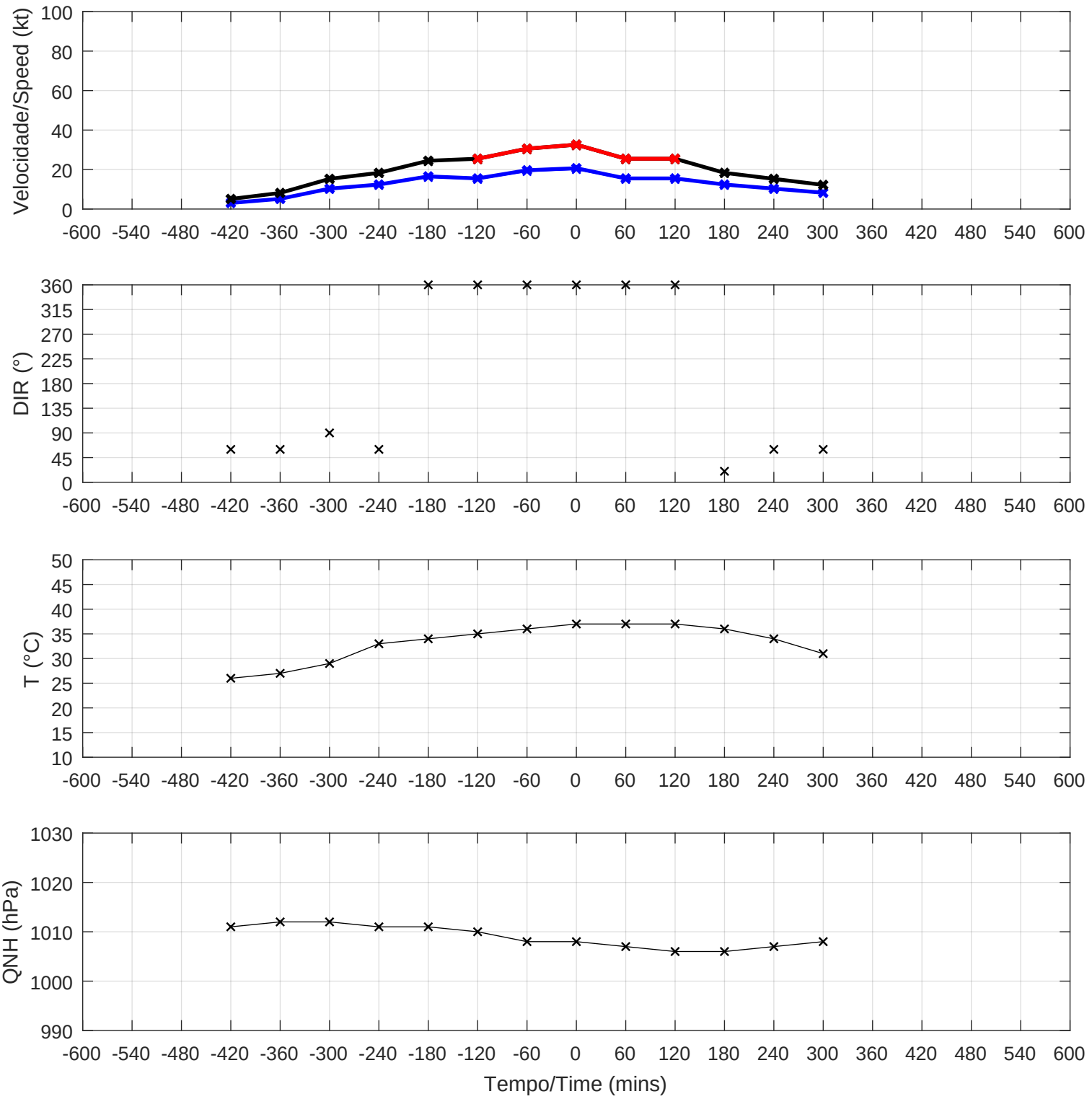
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G_{obs} = 32 kt	R_{-6} = 2.5	$T_{med,3}$ = 29.7 °C	DIR = 360°	NÃO/NO	SINÓTICO
V_{obs} = 20 kt	R_{-3} = 1.5	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = 60°		SYNOPTIC
G_V = 1.6	R_{+3} = 1.3	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 100°		(215)
G_{cor} = 32.6 kt	R_{+6} = 1.3	Δ Grupo/Group = 3	SLPS 161500Z 36020G32KT 9999 FEW020 SCT200 33/23 Q1007=		
V_{cor} = 20.7 kt					



Matthew Bruce Vallis (matthewbvallis@gmail.com) Tese de Doutorado/Doctorate Thesis, Porto Alegre: PPGEC/UFRGS, 2019
Modelo Climático para Ventos Extremos no Brasil/Brazilian Extreme Wind Climate

SLPS/85289 EVENTO/EVENT 54 - 10/09/2005, 18:00 UTC (MSS - REDEMET)

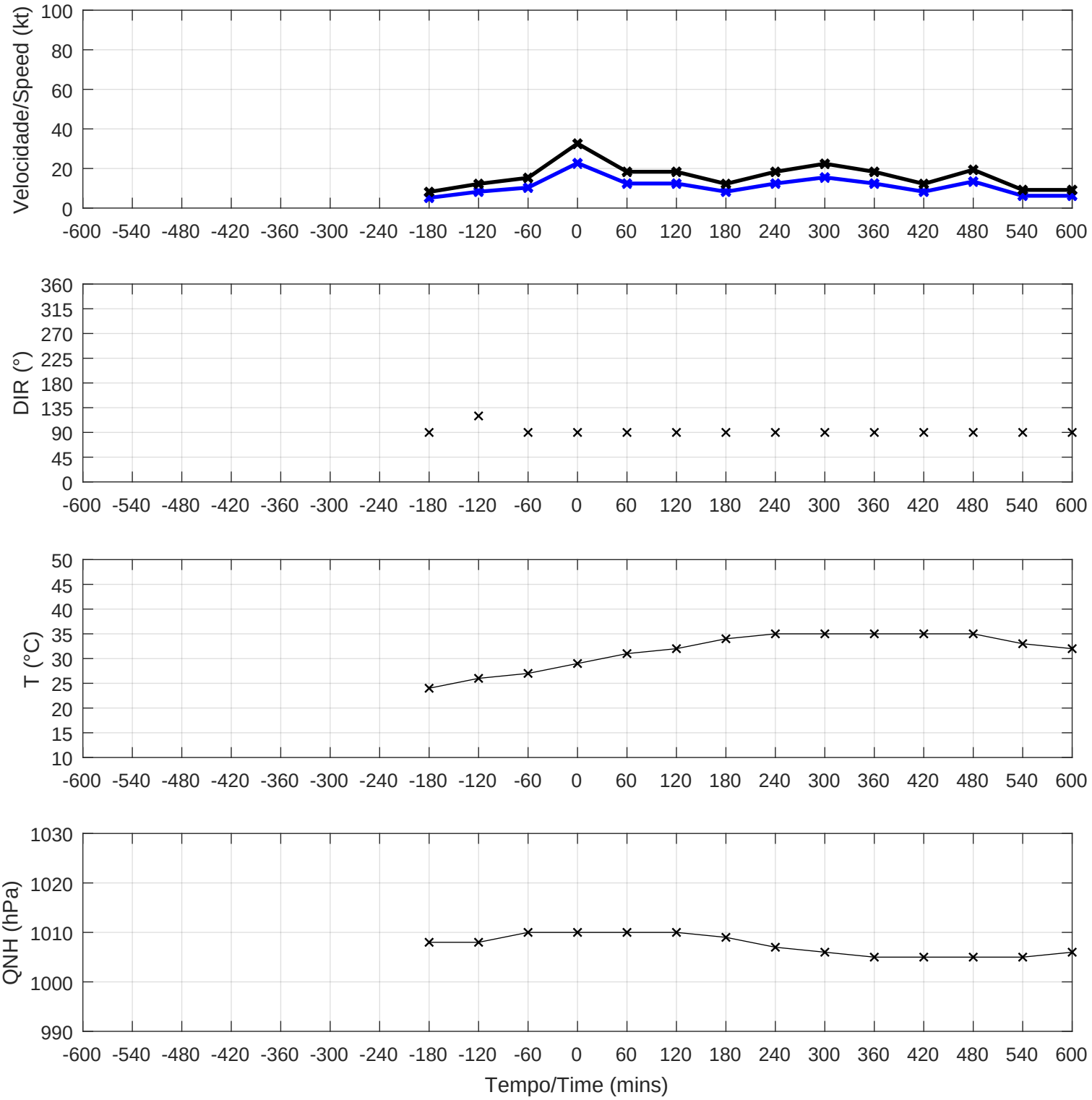
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G_{obs} = 32 kt	R_{-6} = 1.6	$T_{med,3}$ = 35.0 °C	DIR = 360°	NÃO/NO	SINÓTICO
V_{obs} = 20 kt	R_{-3} = 1.2	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = 0°		SYNOPTIC
G_V = 1.6	R_{+3} = 1.4	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 20°		(215)
G_{cor} = 32.6 kt	R_{+6} = 1.7	Δ Grupo/Group = 3	SLPS 101800Z 36020G32KT 7000 SCT030 37/17 Q1008=		
V_{cor} = 20.7 kt					



Matthew Bruce Vallis (matthewbvallis@gmail.com) Tese de Doutorado/Doctorate Thesis, Porto Alegre: PPGEC/UFRGS, 2019
Modelo Climático para Ventos Extremos no Brasil/Brazilian Extreme Wind Climate

SLPS/85289 EVENTO/EVENT 55 - 12/10/2005, 13:00 UTC (MSS - REDEMET)

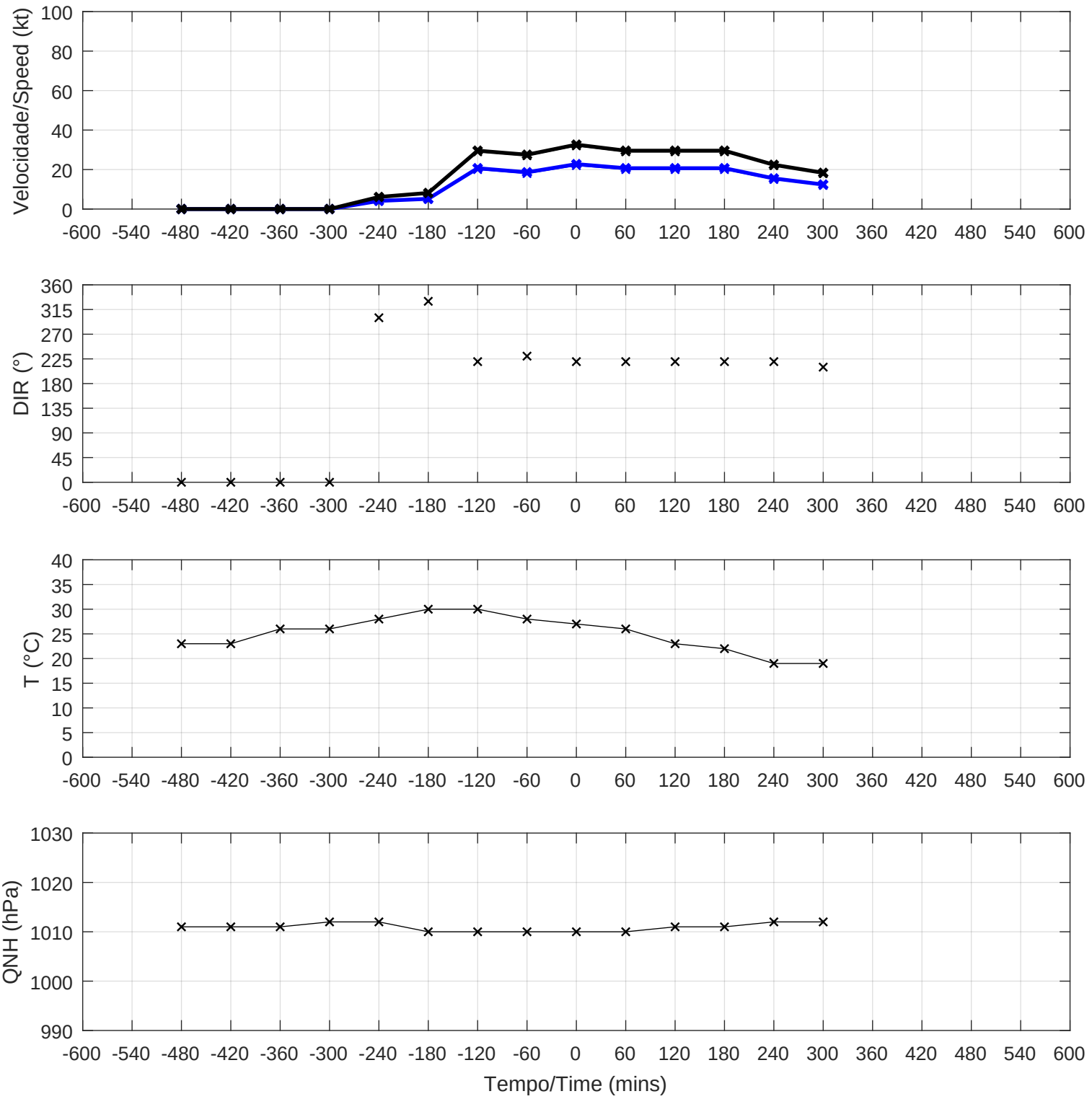
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G* = 32 kt	R_{-6} = [ ]	$T_{med,3}$ = 25.7 °C	DIR = 90°	NÃO/NO	SINÓTICO
V_{obs} = 22 kt	R_{-3} = 2.7	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = 30°		SYNOPTIC
G_V = [ ]	R_{+3} = 2.0	$\Delta Q_{max,3}$ = 2.0 hPa	$\Delta DIR_{max,+3}$ = 0°		(225)
G_{cor} = 32.6 kt	R_{+6} = 1.8	Δ Grupo/Group = 3	SLPS 121300Z 09022KT 9999 SKC 29/22 Q1010=		
V_{cor} = 22.7 kt					



Matthew Bruce Vallis (matthewbvallis@gmail.com) Tese de Doutorado/Doctorate Thesis, Porto Alegre: PPGEC/UFRGS, 2019
Modelo Climático para Ventos Extremos no Brasil/Brazilian Extreme Wind Climate

SLPS/85289 EVENTO/EVENT 58 - 14/05/2009, 18:00 UTC (MSS - REDEMET)

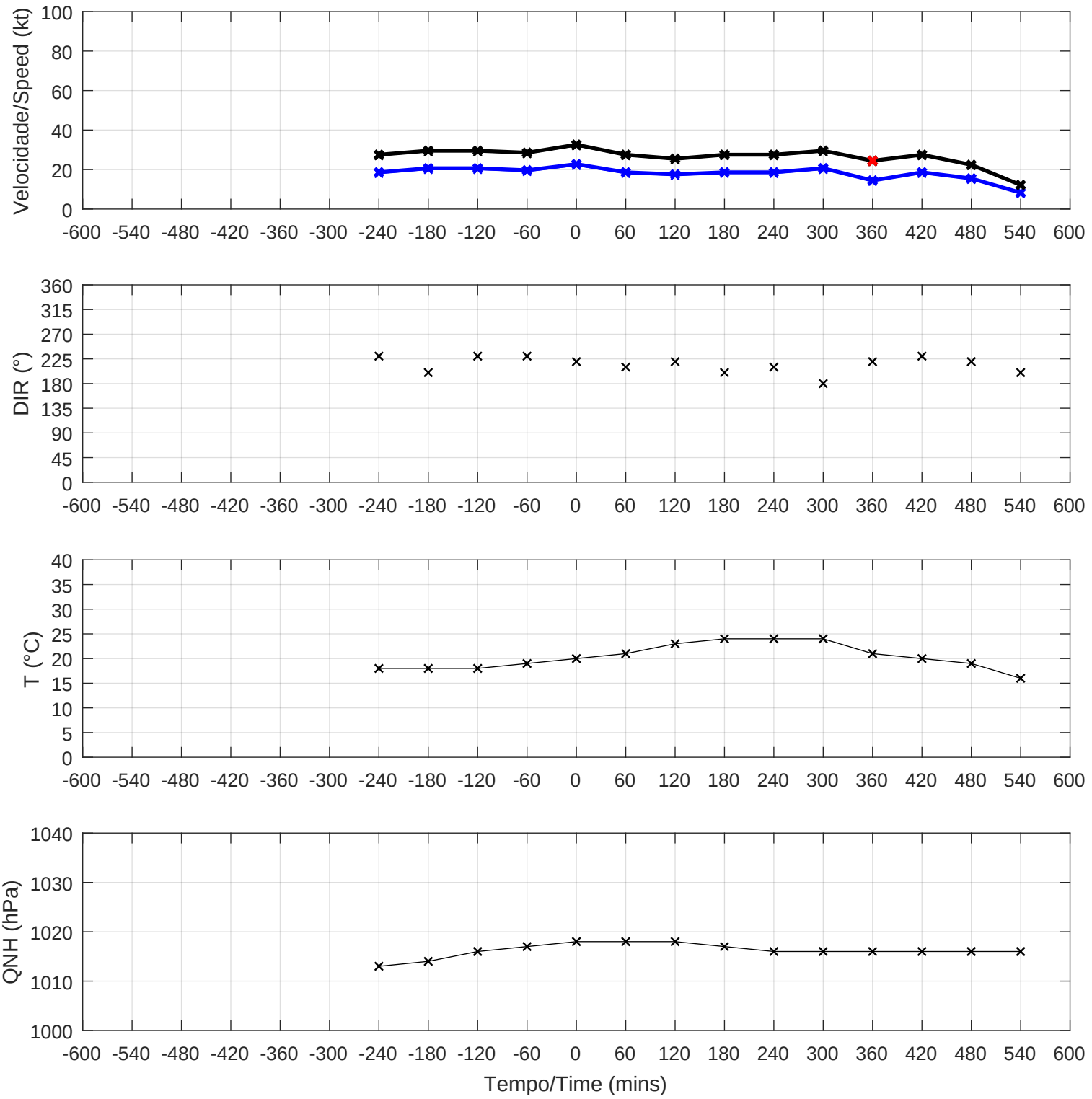
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G* = 32 kt	R_{-6} = 2.7	$T_{med,3}$ = 29.3 °C	DIR = 220°	NÃO/NO	SINÓTICO
V_{obs} = 22 kt	R_{-3} = 1.5	$\Delta T_{min,3}$ = -4.0 °C	$\Delta DIR_{max,-3}$ = 110°		SYNOPTIC
G_V = [ ]	R_{+3} = 1.1	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 0°		(226)
G_{cor} = 32.6 kt	R_{+6} = 1.3	Δ Grupo/Group = 3	SLPS 141800Z 22022KT 9999 FEW023 27/18 Q1010=		
V_{cor} = 22.7 kt					



Matthew Bruce Vallis (matthewbvallis@gmail.com) Tese de Doutorado/Doctorate Thesis, Porto Alegre: PPGEC/UFRGS, 2019
Modelo Climático para Ventos Extremos no Brasil/Brazilian Extreme Wind Climate

SLPS/85289 EVENTO/EVENT 59 - 28/09/2009, 14:00 UTC (MSS - REDEMET)

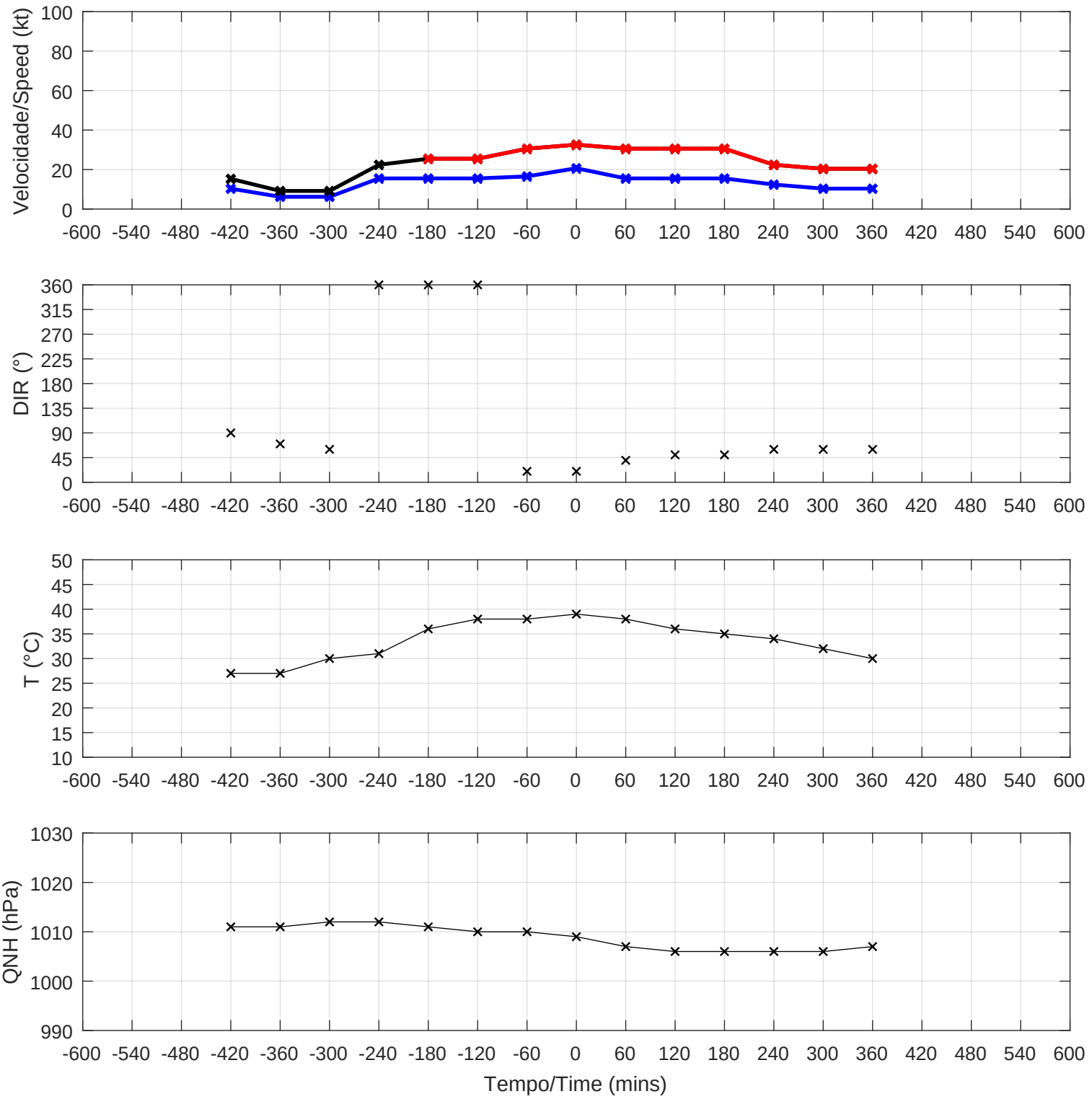
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G* = 32 kt	R_{-6} = 1.1	$T_{med,3}$ = 18.3 °C	DIR = 220°	NÃO/NO	SINÓTICO
V_{obs} = 22 kt	R_{-3} = 1.1	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = 20°		SYNOPTIC
G_V = [ ]	R_{+3} = 1.2	$\Delta Q_{max,3}$ = 2.0 hPa	$\Delta DIR_{max,+3}$ = 20°		(226)
G_{cor} = 32.6 kt	R_{+6} = 1.2	Δ Grupo/Group = 3	SLPS 281400Z 22022KT 8000 SKC 20/11 Q1018=		
V_{cor} = 22.7 kt					



Matthew Bruce Vallis (matthewbvallis@gmail.com) Tese de Doutorado/Doctorate Thesis, Porto Alegre: PPGEC/UFRGS, 2019
Modelo Climático para Ventos Extremos no Brasil/Brazilian Extreme Wind Climate

SLPS/85289 EVENTO/EVENT 60 - 30/09/2012, 17:00 UTC (MSS - REDEMET)

Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G_{obs} = 32 kt	R_{-6} = 1.6	$T_{med,3}$ = 37.3 °C	DIR = 20°	NÃO/NO	SINÓTICO
V_{obs} = 20 kt	R_{-3} = 1.2	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = 20°		SYNOPTIC
G_V = 1.6	R_{+3} = 1.1	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 30°		(215)
G_{cor} = 32.6 kt	R_{+6} = 1.3	Δ Grupo/Group = 3	METAR SLPS 301700Z 02020G32KT 9000 FEW025 39/20 Q1009=		
V_{cor} = 20.7 kt					



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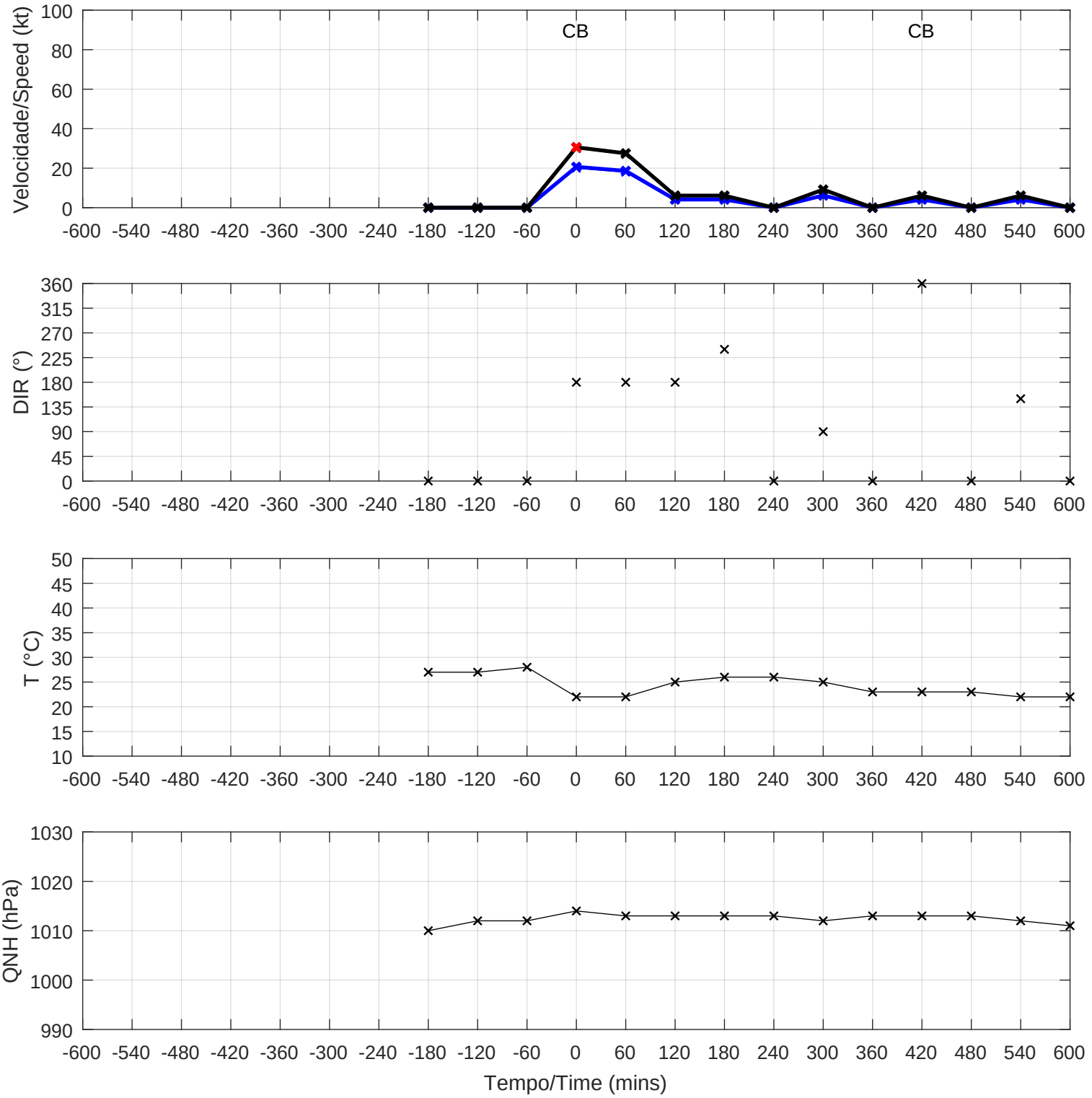
SLPS/85289 EVENTO/EVENT 61 - 20/10/1996, 13:00 UTC (MSS - WUNDERGROUND)

Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G_{obs} = 30 kt	R_{-6} = [ ]	$T_{med,3}$ = 27.3 °C	DIR = 180°	NÃO/NO	NÃO-SINÓTICO
V_{obs} = 20 kt	R_{-3} = Inf	$\Delta T_{min,3}$ = -6.0 °C	$\Delta DIR_{max,-3}$ = 0°		NON-SYNOPTIC
G_V = 1.5	R_{+3} = 2.3	$\Delta Q_{max,3}$ = 2.0 hPa	$\Delta DIR_{max,+3}$ = 60°		(113)
G_{cor} = 30.6 kt	R_{+6} = 3.8	Δ Grupo/Group = 1	METAR SLPS 201300Z 18020G30KT 9999 SCT006 SCT023 FEW025CB OVC200 22/21 Q1014		
V_{cor} = 20.7 kt					



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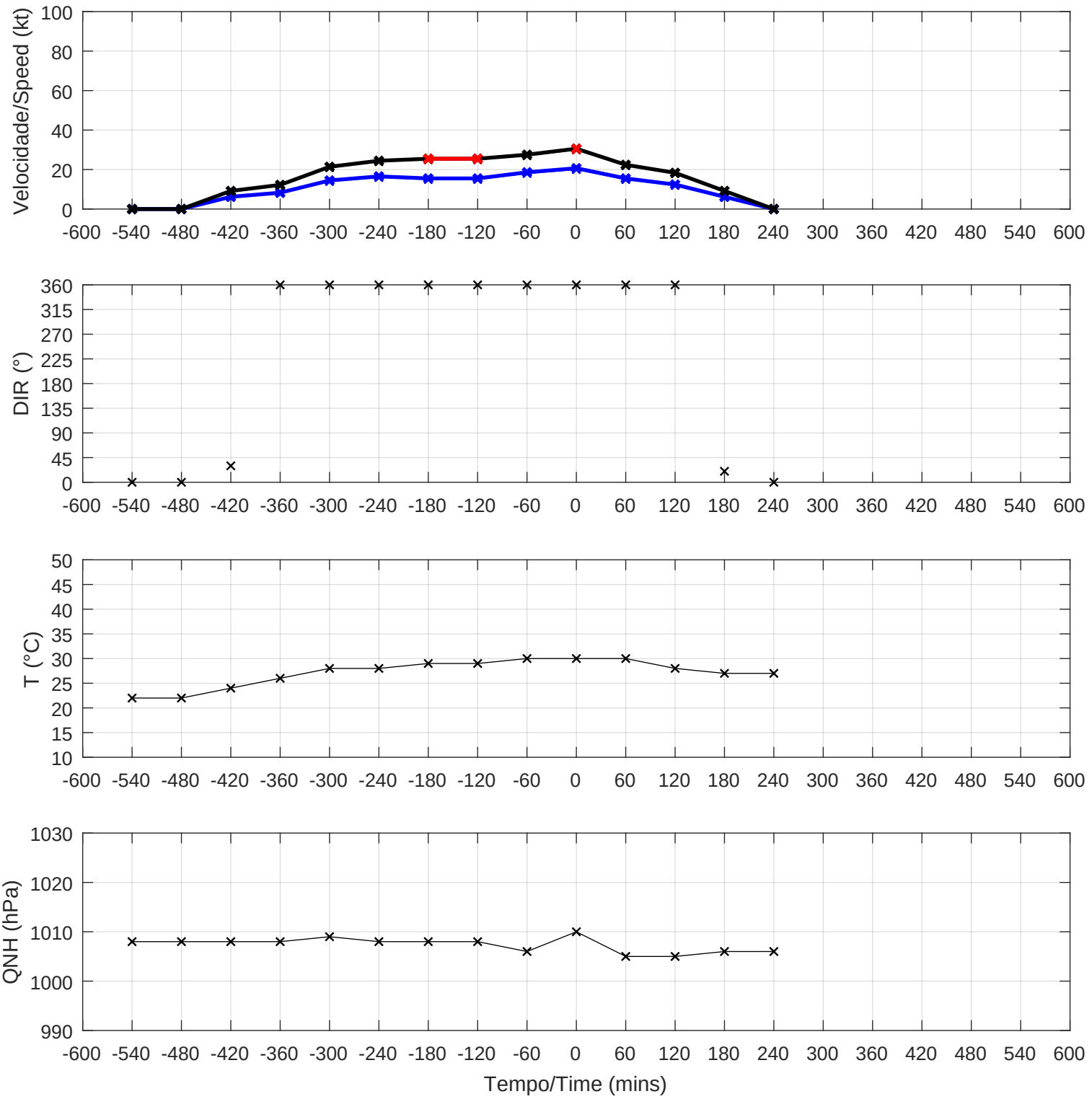
SLPS/85289 EVENTO/EVENT 64 - 20/06/1997, 19:00 UTC (MSS - WUNDERGROUND)

Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G_{obs} = 30 kt	R_{-6} = 1.3	$T_{med,3}$ = 29.3 °C	DIR = 360°	NÃO/NO	SINÓTICO
V_{obs} = 20 kt	R_{-3} = 1.2	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = 0°		SYNOPTIC
G_V = 1.5	R_{+3} = 1.8	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 20°		(215)
G_{cor} = 30.6 kt	R_{+6} = 2.4	Δ Grupo/Group = 3	METAR SLPS 201900Z 36020G30KT 9999 FEW027 30/21 Q1010		
V_{cor} = 20.7 kt					



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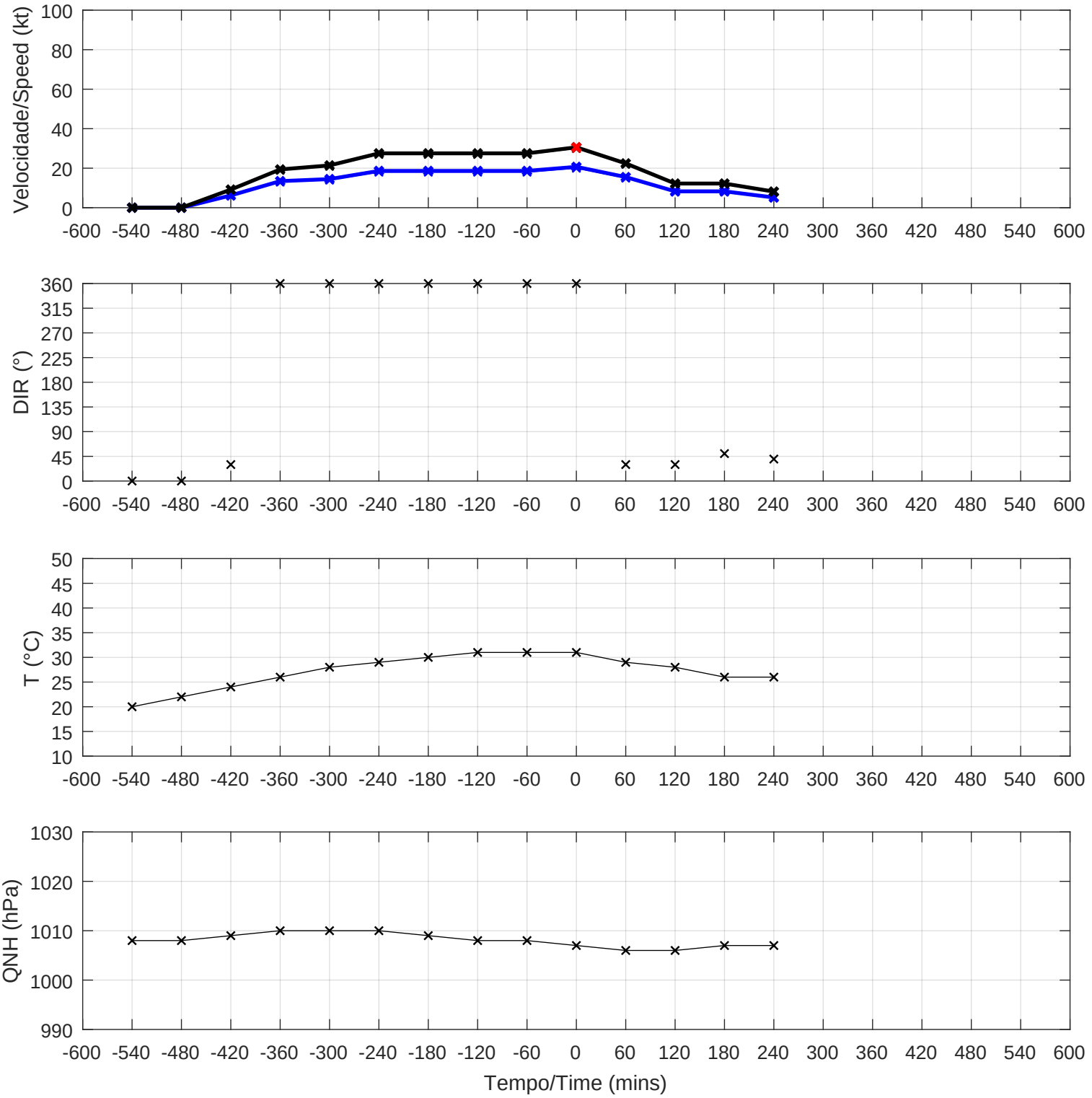
SLPS/85289 EVENTO/EVENT 65 - 23/06/1997, 19:00 UTC (MSS - WUNDERGROUND)

Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G_{obs} = 30 kt	R_{-6} = 1.2	$T_{med,3}$ = 30.7 °C	DIR = 360°	NÃO/NO	SINÓTICO
V_{obs} = 20 kt	R_{-3} = 1.1	$\Delta T_{min,3}$ = -2.0 °C	$\Delta DIR_{max,-3}$ = 0°		SYNOPTIC
G_V = 1.5	R_{+3} = 2.0	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 50°		(214)
G_{cor} = 30.6 kt	R_{+6} = 2.2	Δ Grupo/Group = 3	METAR SLPS 231900Z 36020G30KT 9999 FEW020 31/21 Q1007		
V_{cor} = 20.7 kt					



Matthew Bruce Vallis (matthewbvallis@gmail.com) Tese de Doutorado/Doctorate Thesis, Porto Alegre: PPGEC/UFRGS, 2019
Modelo Climático para Ventos Extremos no Brasil/Brazilian Extreme Wind Climate