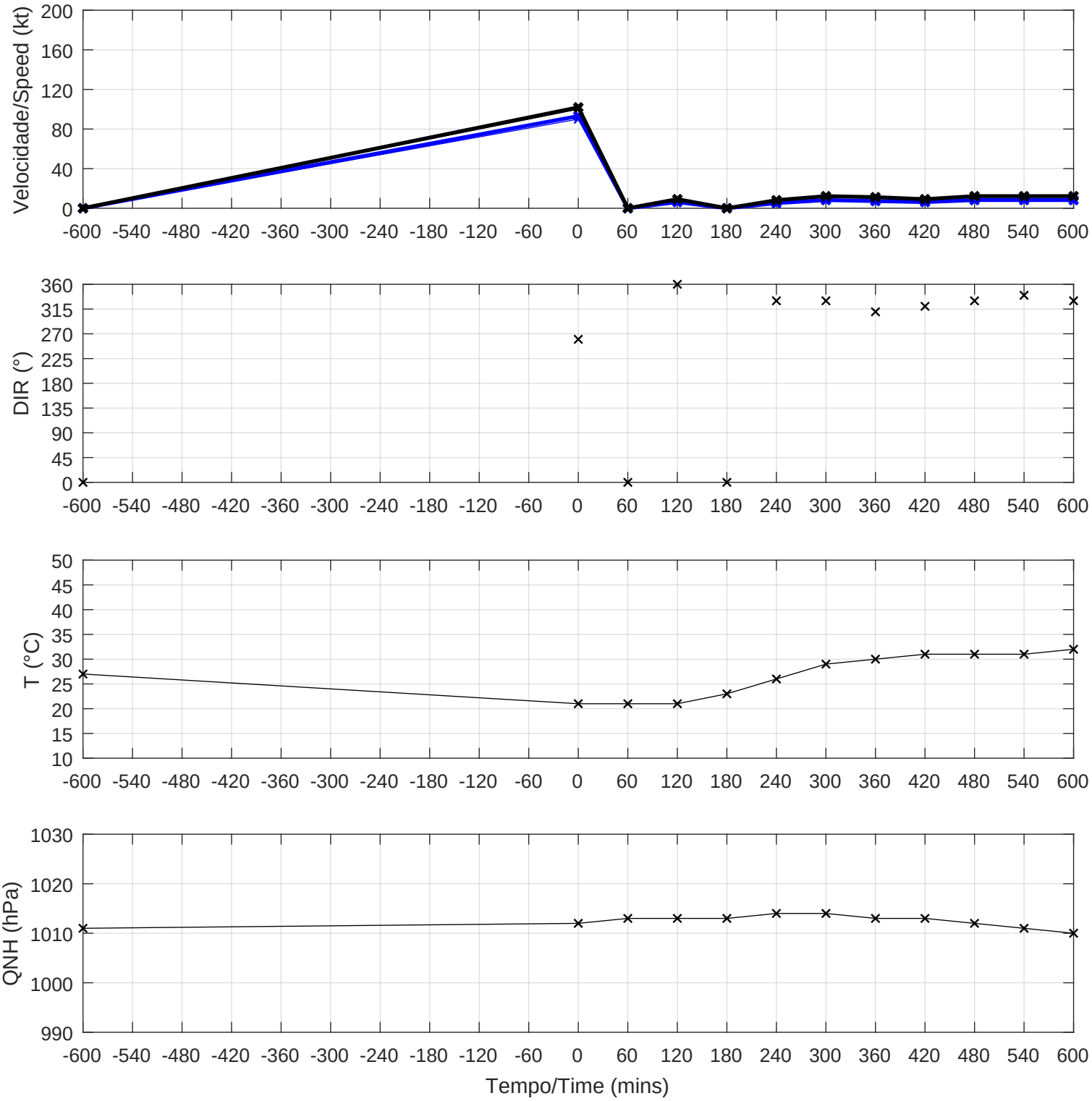
SLTR/85154 EVENTO/EVENT 1 - 26/06/2017, 09:00 UTC (MSS - REDEMET)

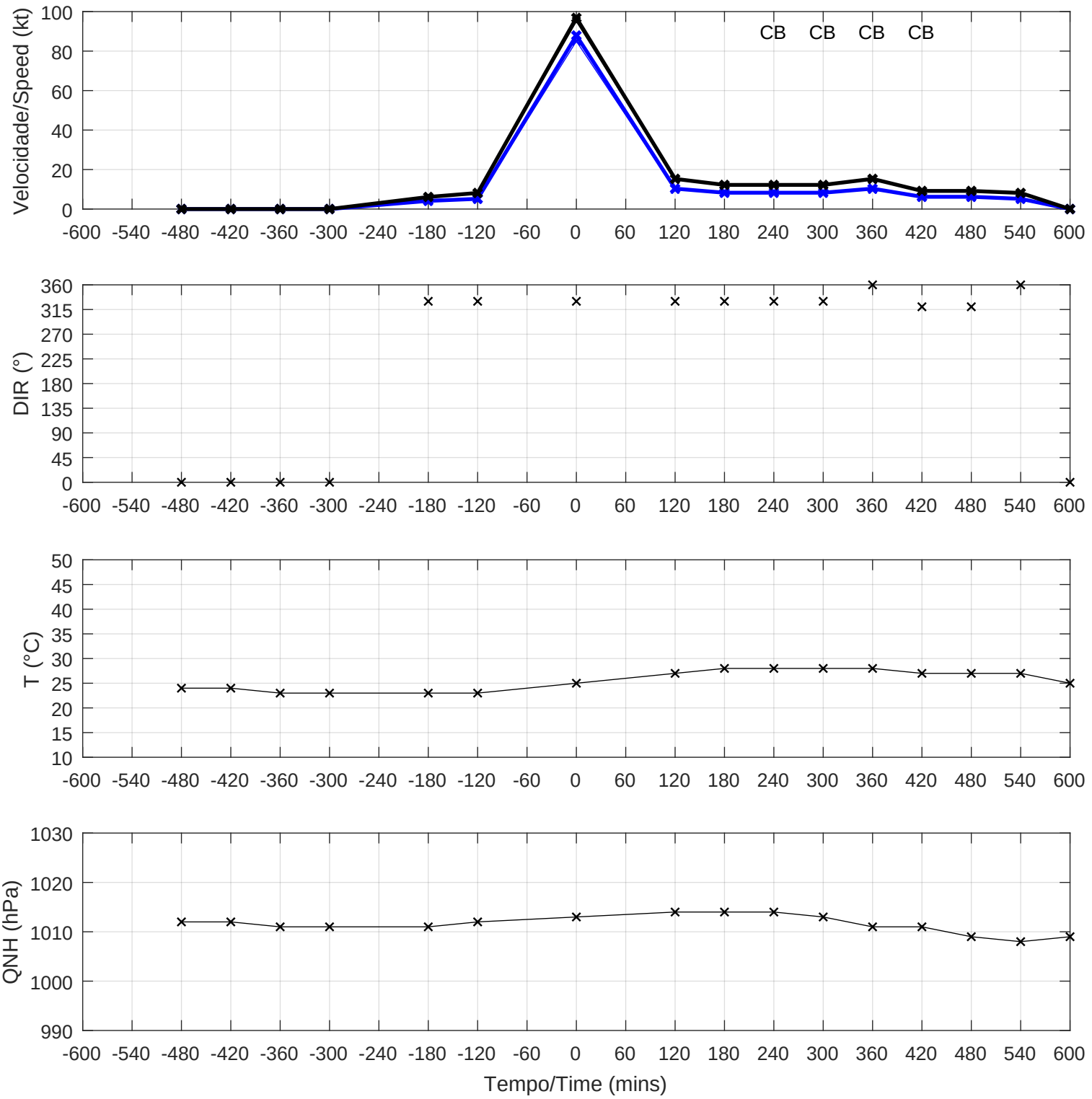
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G* = 100 kt	R_{-6} = [ ]	$T_{med,3}$ = [ ]	DIR = 260°	NÃO/NO	SUSPEITO
V_{obs} = 90 kt	R_{-3} = [ ]	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = [ ]		SUSPECT
G_V = [ ]	R_{+3} = 33.3	$\Delta Q_{max,3}$ = 1.0 hPa	$\Delta DIR_{max,+3}$ = 100°		(324)
G_{cor} = 101.9 kt	R_{+6} = 15.0	Δ Grupo/Group = 3	METAR SLTR 260900Z 26090KT 9999 FEW070 21/21 Q1012=		
V_{cor} = 93.1 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

SLTR/85154 EVENTO/EVENT 2 - 13/05/1998, 12:00 UTC (MSS - WUNDERGROUND)

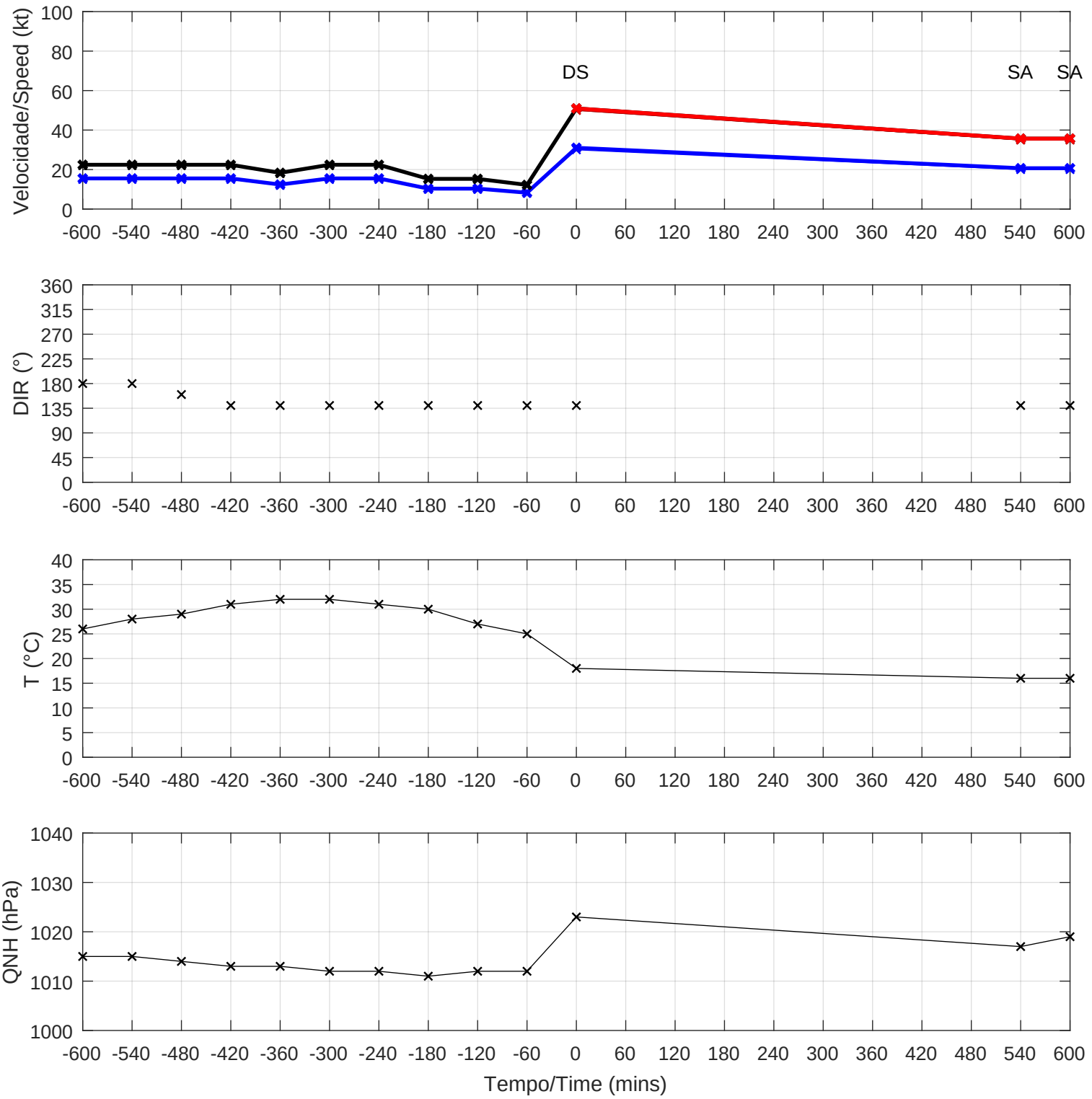
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G* = 95 kt	R_{-6} = 27.1	$T_{med,3}$ = 23.0 °C	DIR = 330°	NÃO/NO	SUSPEITO
V_{obs} = 85 kt	R_{-3} = 13.6	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = 0°		SUSPECT
G_V = [ ]	R_{+3} = 7.0	$\Delta Q_{max,3}$ = 1.0 hPa	$\Delta DIR_{max,+3}$ = 0°		(324)
G_{cor} = 96.8 kt	R_{+6} = 7.2	Δ Grupo/Group = 3	METAR SLTR 131200Z 33085KT 9999 FEW080 SCT230 25/23 Q1013		
V_{cor} = 87.9 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

SLTR/85154 EVENTO/EVENT 3 - 14/08/1999, 00:00 UTC (MSS - WUNDERGROUND)

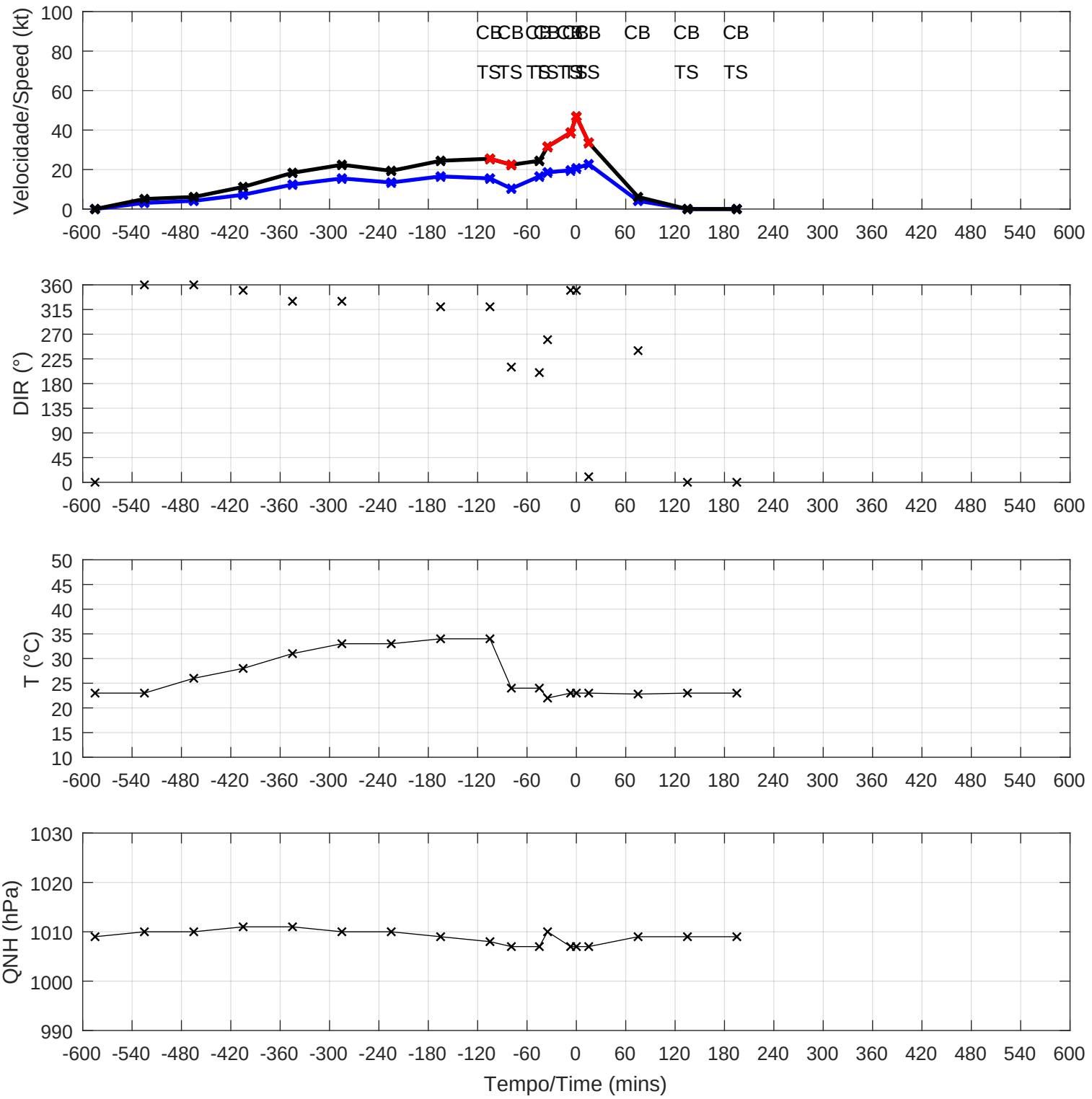
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G_{obs} = 50 kt	R_{-6} = 2.9	$T_{med,3}$ = 27.3 °C	DIR = 140°	NÃO/NO	NÃO-SINÓTICO
V_{obs} = 30 kt	R_{-3} = 3.6	$\Delta T_{min,3}$ = -9.0 °C	$\Delta DIR_{max,-3}$ = 0°		NON-SYNOPTIC
G_V = 1.7	R_{+3} = [ ]	$\Delta Q_{max,3}$ = 11.0 hPa	$\Delta DIR_{max,+3}$ = [ ]		(112)
G_{cor} = 51.0 kt	R_{+6} = [ ]	Δ Grupo/Group = 1	METAR SLTR 140000Z 14030G50KT 3000 -DS SCT230 18/02 Q1023		
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

SLTR/85154 EVENTO/EVENT 4 - 28/08/2016, 19:45 UTC (MSS - REDEMET)

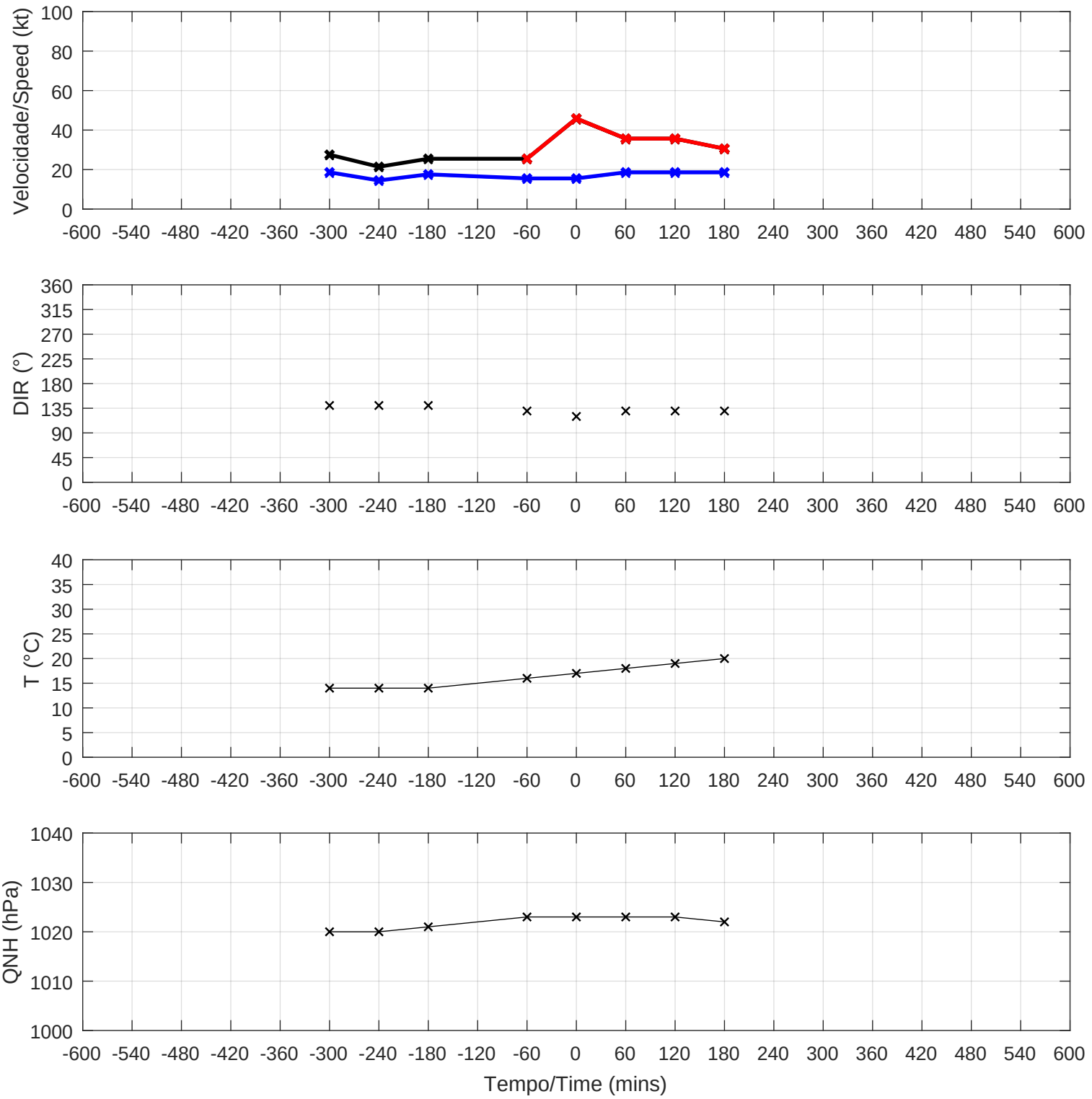
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G_{obs} = 46 kt	R_{-6} = 2.0	$T_{med,3}$ = 31.2 °C	DIR = 350°	SIM/YES	NÃO-SINÓTICO
V_{obs} = 20 kt	R_{-3} = 1.8	$\Delta T_{min,3}$ = -12.0 °C	$\Delta DIR_{max,-3}$ = 150°		NON-SYNOPTIC
G_V = 2.3	R_{+3} = 3.5	$\Delta Q_{max,3}$ = 3.0 hPa	$\Delta DIR_{max,+3}$ = 110°		(110)
G_{cor} = 46.9 kt	R_{+6} = 4.7	Δ Grupo/Group = 1	SPECI SLTR 281945Z 35020G46KT 0800 +TSRA SCT025 SCT027CB BKN200 23/21Q1007=		
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

SLTR/85154 EVENTO/EVENT 5 - 20/09/1998, 14:00 UTC (MSS - WUNDERGROUND)

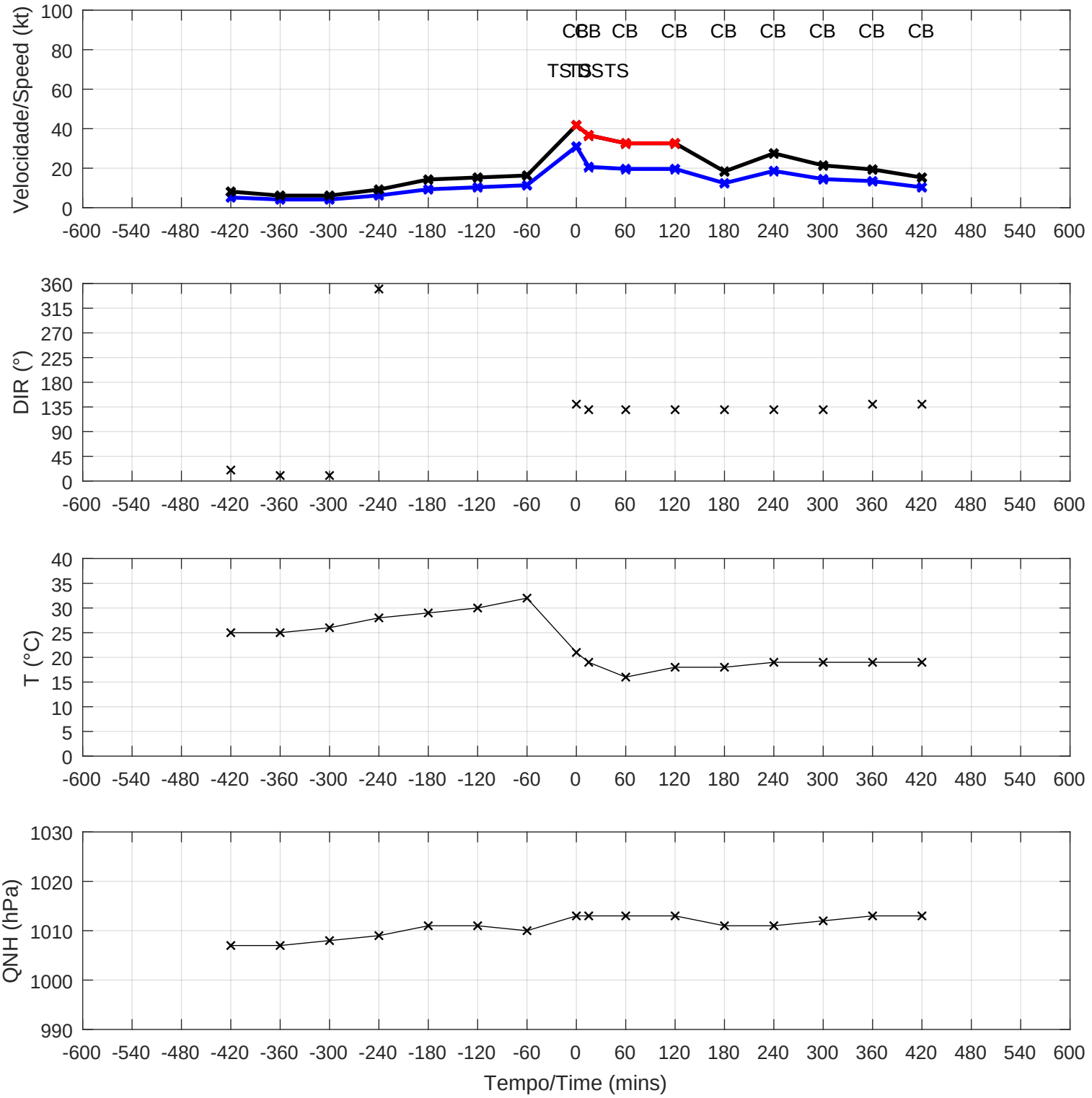
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G_{obs} = 45 kt	R_{-6} = 1.8	$T_{med,3}$ = 15.0 °C	DIR = 120°	NÃO/NO	SINÓTICO
V_{obs} = 15 kt	R_{-3} = 1.8	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = 20°		SYNOPTIC
G_V = 3.0	R_{+3} = 1.3	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 10°		(215)
G_{cor} = 45.9 kt	R_{+6} = [ ]	Δ Grupo/Group = 3	METAR SLTR 201400Z 12015G45KT 9999 BKN070 17/08 Q1023		
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

SLTR/85154 EVENTO/EVENT 6 - 02/11/2016, 16:00 UTC (MSS - REDEMET)

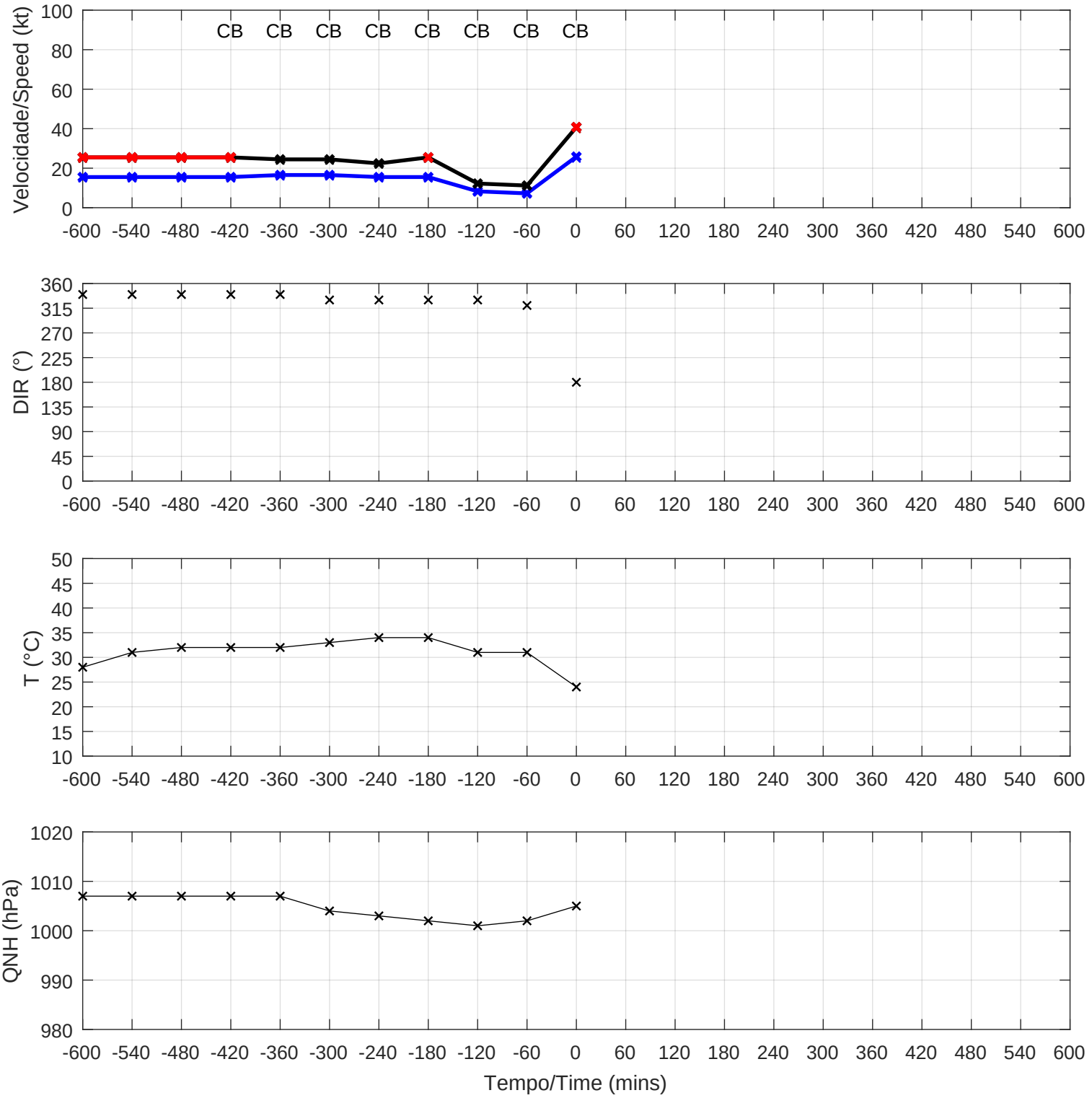
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G_{obs} = 41 kt	R_{-6} = 3.7	$T_{med,3}$ = 30.3 °C	DIR = 140°	SIM/YES	NÃO-SINÓTICO
V_{obs} = 30 kt	R_{-3} = 2.7	$\Delta T_{min,3}$ = -16.0 °C	$\Delta DIR_{max,-3}$ = [ ]		NON-SYNOPTIC
G_V = 1.4	R_{+3} = 1.4	$\Delta Q_{max,3}$ = 3.0 hPa	$\Delta DIR_{max,+3}$ = 10°		(110)
G_{cor} = 41.8 kt	R_{+6} = 1.6	Δ Grupo/Group = 1	METAR SLTR 021600Z 14030G41KT 1000 TS DS SCT006 SCT020CB OVC20021/16 Q1013=		
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

SLTR/85154 EVENTO/EVENT 7 - 13/11/1997, 23:00 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} = 2.0	$T_{med,3}$ = 32.0 °C	DIR = 180°	NÃO/NO	NÃO-SINÓTICO
V_{obs} = 25 kt	R_{-3} = 2.5	$\Delta T_{min,3}$ = -7.0 °C	$\Delta DIR_{max,-3}$ = 150°		NON-SYNOPTIC
G_V = 1.6	R_{+3} = [ ]	$\Delta Q_{max,3}$ = 4.0 hPa	$\Delta DIR_{max,+3}$ = [ ]		(113)
G_{cor} = 40.8 kt	R_{+6} = [ ]	Δ Grupo/Group = 1	METAR SLTR 132300Z 18025G40KT 8000 VCSH SCT005 BKN015 FEW020CB BKN200 24/20 Q1005		
V_{cor} = 25.9 kt					



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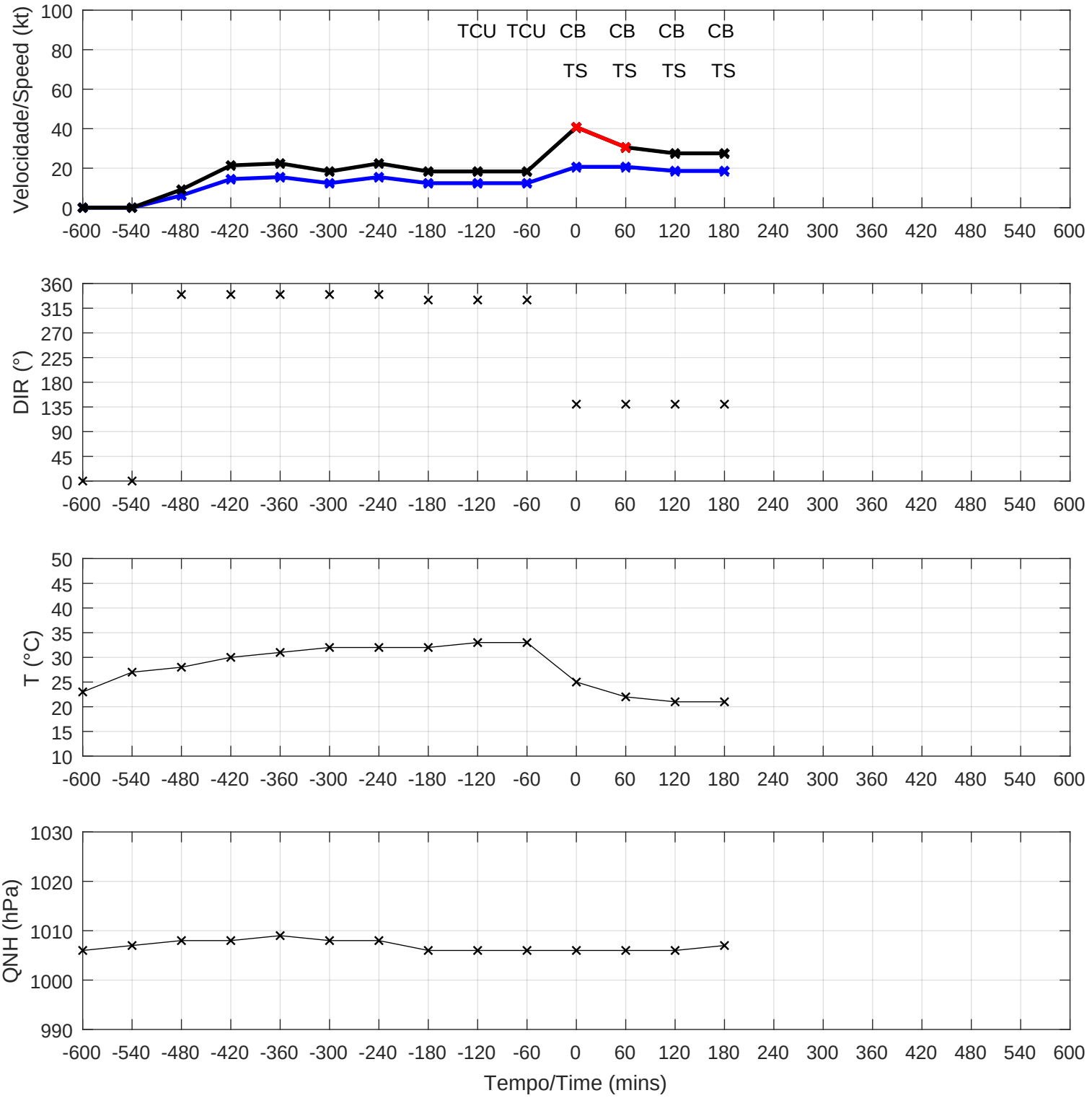
Modelo Climático para Ventos Extremos no Brasil/Brazilian Extreme Wind Climate

SLTR/85154 EVENTO/EVENT 8 - 29/11/1998, 20:00 UTC (MSS - WUNDERGROUND)

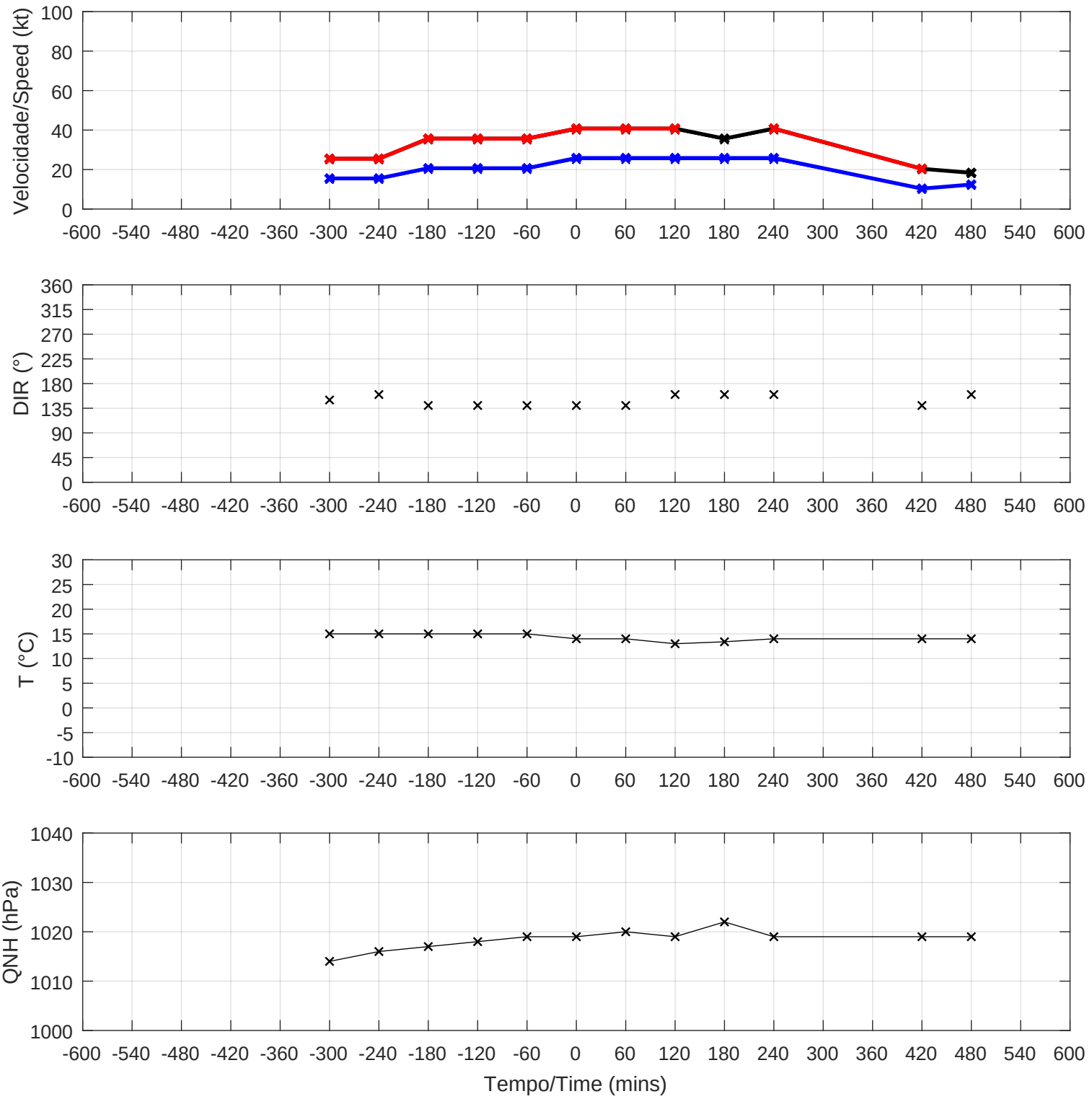
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G_{obs} = 40 kt	R_{-6} = 2.1	$T_{med,3}$ = 32.7 °C	DIR = 140°	SIM/YES	NÃO-SINÓTICO
V_{obs} = 20 kt	R_{-3} = 2.2	$\Delta T_{min,3}$ = -11.0 °C	$\Delta DIR_{max,-3}$ = 170°		NON-SYNOPTIC
G_V = 2.0	R_{+3} = 1.4	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 0°		(110)
G_{cor} = 40.8 kt	R_{+6} = [ ]	Δ Grupo/Group = 2	METAR SLTR 292000Z 14020G40KT 0200 0200 +TSRA BKN004 BKN013 FEW023CB 25/25 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

SLTR/85154 EVENTO/EVENT 9 - 09/11/1999, 15:00 UTC (MSS - WUNDERGROUND)

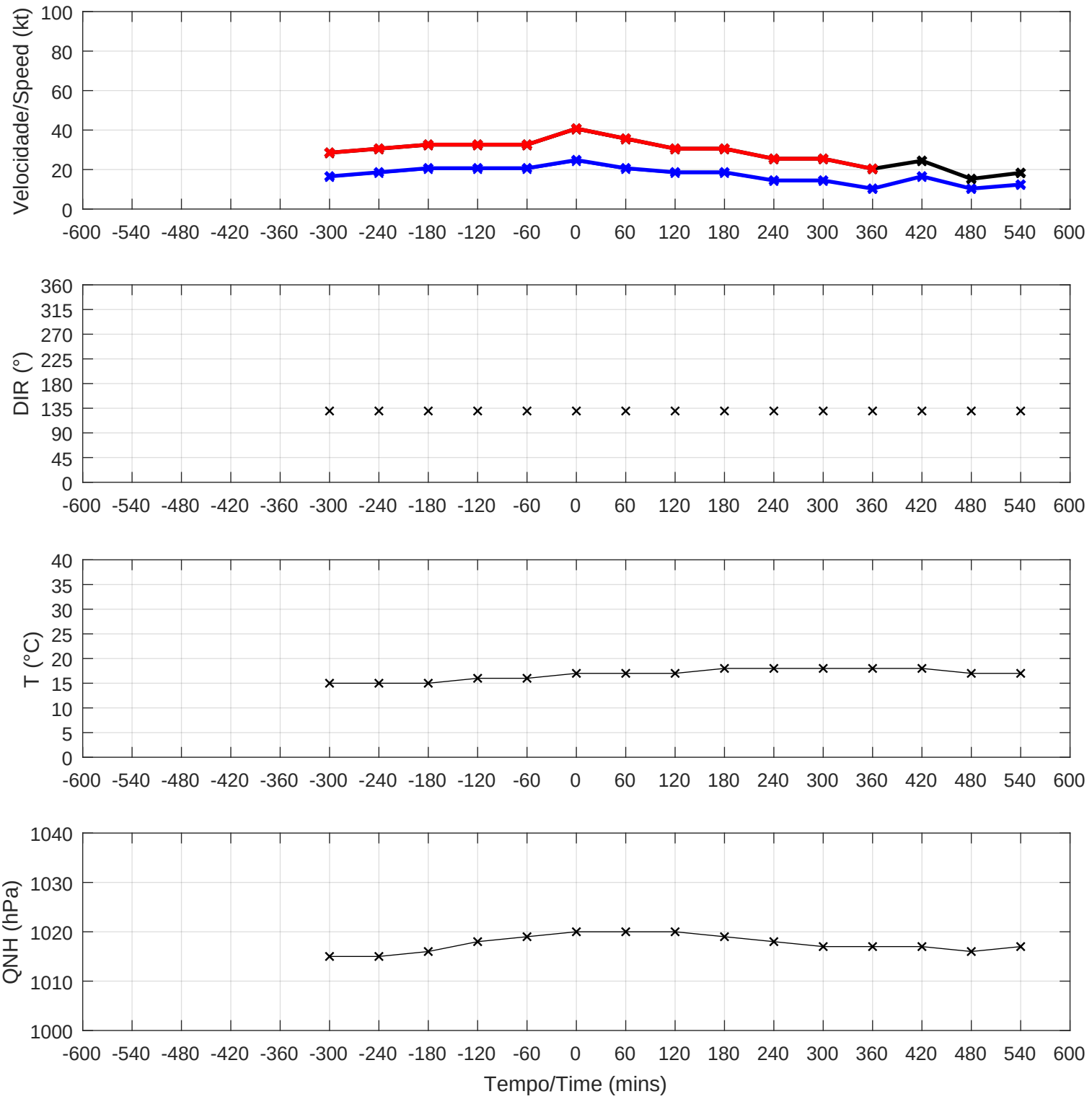
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G_{obs} = 40 kt	R_{-6} = 1.3	$T_{med,3}$ = 15.0 °C	DIR = 140°	NÃO/NO	SINÓTICO
V_{obs} = 25 kt	R_{-3} = 1.1	$\Delta T_{min,3}$ = -1.0 °C	$\Delta DIR_{max,-3}$ = 0°		SYNOPTIC
G_V = 1.6	R_{+3} = 1.0	$\Delta Q_{max,3}$ = 2.0 hPa	$\Delta DIR_{max,+3}$ = 20°		(212)
G_{cor} = 40.8 kt	R_{+6} = 1.0	Δ Grupo/Group = 2	METAR SLTR 091500Z 14025G40KT 9999 -RA SCT010 BKN030 OVC070 14/12 Q1019		
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

SLTR/85154 EVENTO/EVENT 10 - 20/08/2011, 14:00 UTC (MSS - REDEMET)

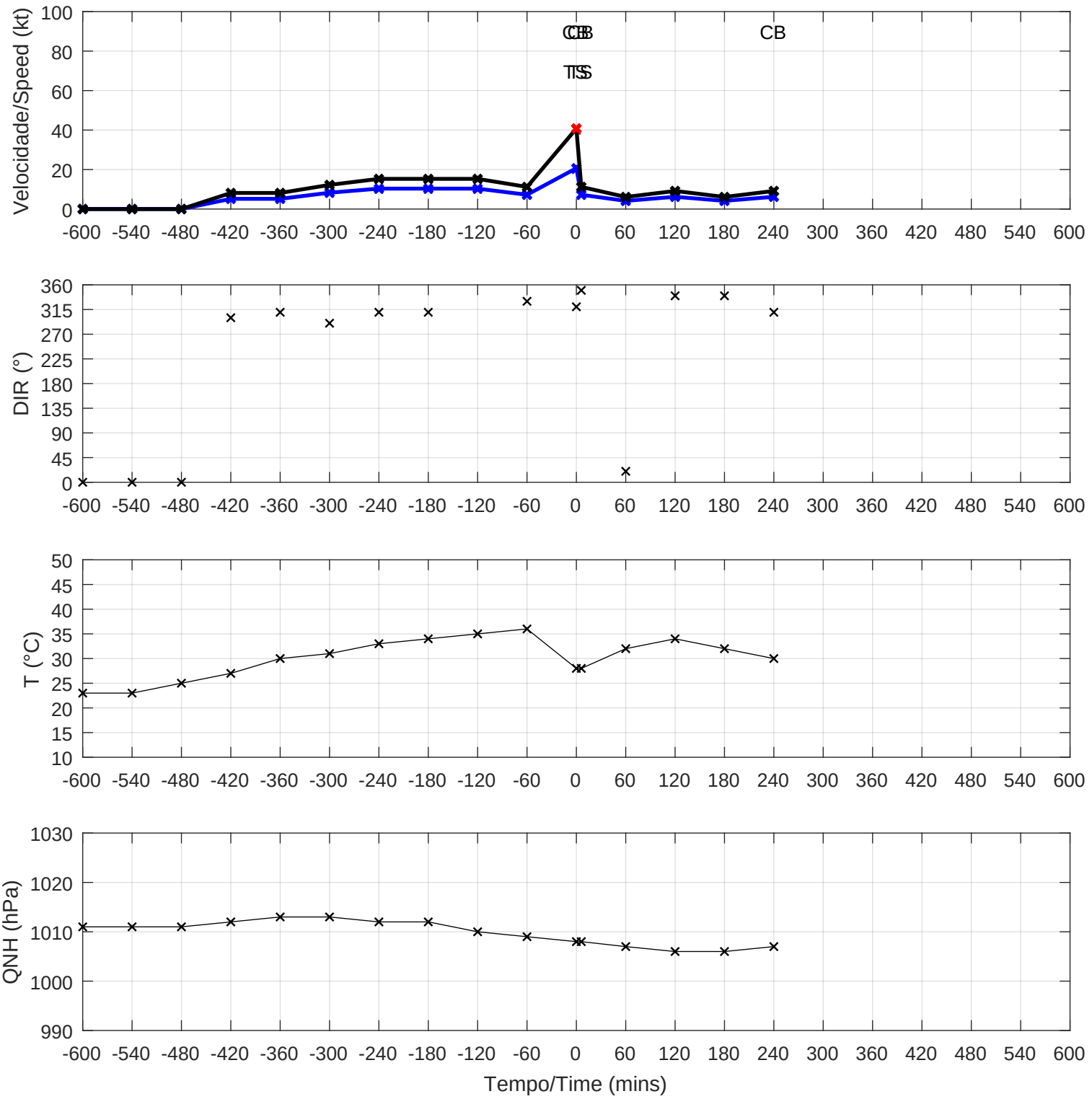
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G_{obs} = 40 kt	R_{-6} = 1.3	$T_{med,3}$ = 15.7 °C	DIR = 130°	NÃO/NO	SINÓTICO
V_{obs} = 24 kt	R_{-3} = 1.3	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = 0°		SYNOPTIC
G_V = 1.7	R_{+3} = 1.3	$\Delta Q_{max,3}$ = 2.0 hPa	$\Delta DIR_{max,+3}$ = 0°		(215)
G_{cor} = 40.8 kt	R_{+6} = 1.5	Δ Grupo/Group = 3	SLTR 201400Z 13024G40KT 9999 BKN020 17/06 Q1020=		
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

SLTR/85154 EVENTO/EVENT 11 - 26/10/2015, 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} = 3.2	$T_{med,3}$ = 35.0 °C	DIR = 320°	SIM/YES	NÃO-SINÓTICO
V_{obs} = 20 kt	R_{-3} = 2.9	$\Delta T_{min,3}$ = -8.0 °C	$\Delta DIR_{max,-3}$ = 10°		NON-SYNOPTIC
G_V = 2.0	R_{+3} = 5.0	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 60°		(110)
G_{cor} = 40.8 kt	R_{+6} = 4.9	Δ Grupo/Group = 2	METAR SLTR 261900Z 32020G40KT 280V350 1000 +TSRA SCT020 FEW023CB28/24 Q1008=		
V_{cor} = 20.7 kt					



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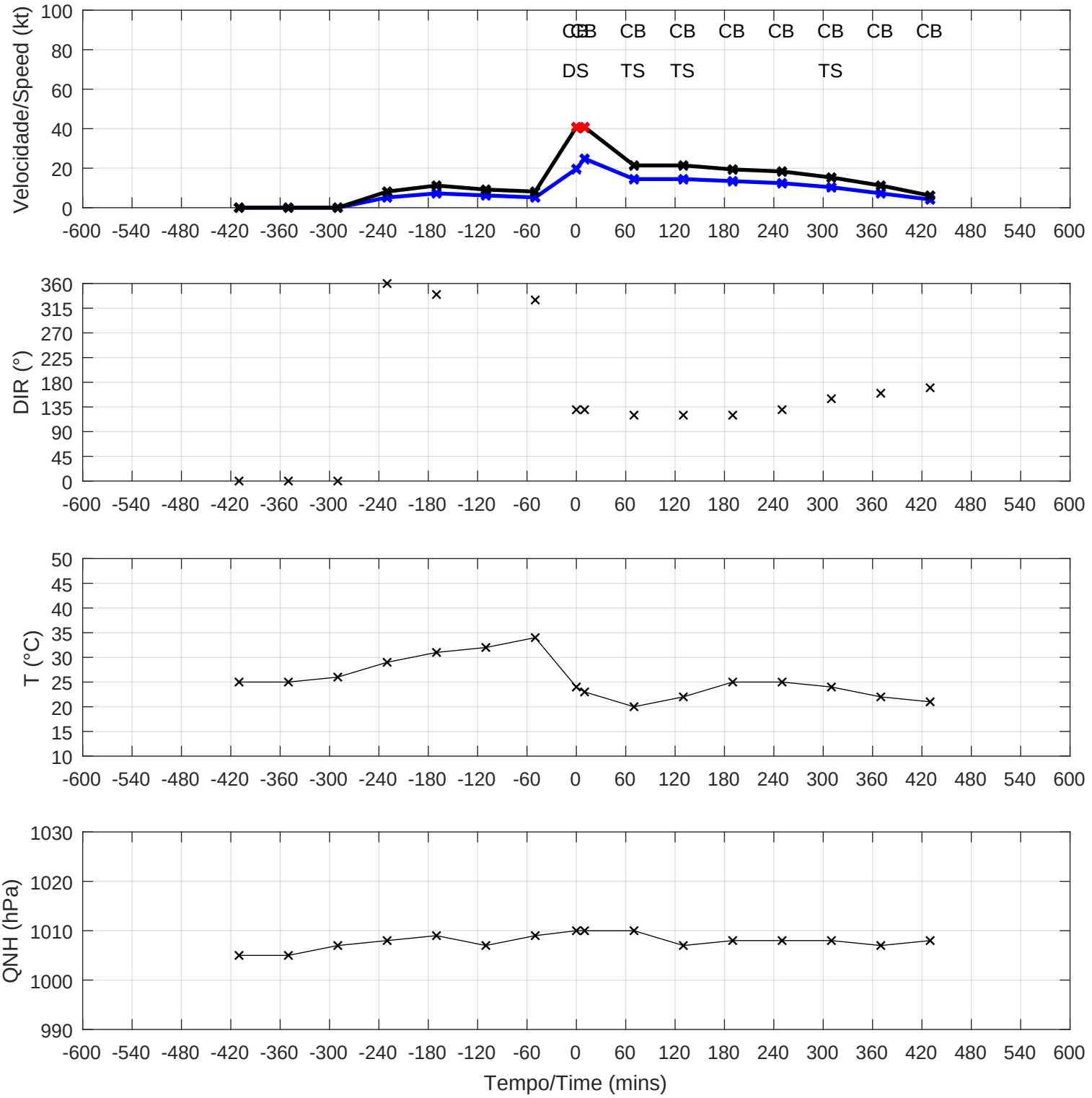
Modelo Climático para Ventos Extremos no Brasil/Brazilian Extreme Wind Climate

SLTR/85154 EVENTO/EVENT 12 - 20/11/2015, 15:50 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} = 6.7	$T_{med,3}$ = 31.5 °C	DIR = 130°	NÃO/NO	SINÓTICO
V_{obs} = 19 kt	R_{-3} = 4.3	$\Delta T_{min,3}$ = -11.0 °C	$\Delta DIR_{max,-3}$ = 160°		SYNOPTIC
G_V = 2.1	R_{+3} = 1.5	$\Delta Q_{max,3}$ = 3.0 hPa	$\Delta DIR_{max,+3}$ = 10°		(211)
G_{cor} = 40.8 kt	R_{+6} = 1.8	Δ Grupo/Group = 1	SPECI SLTR 201550Z 13019G40KT 2000 DS SCT008 FEW020CB SCT080 24/18Q1010=		
V_{cor} = 19.6 kt					



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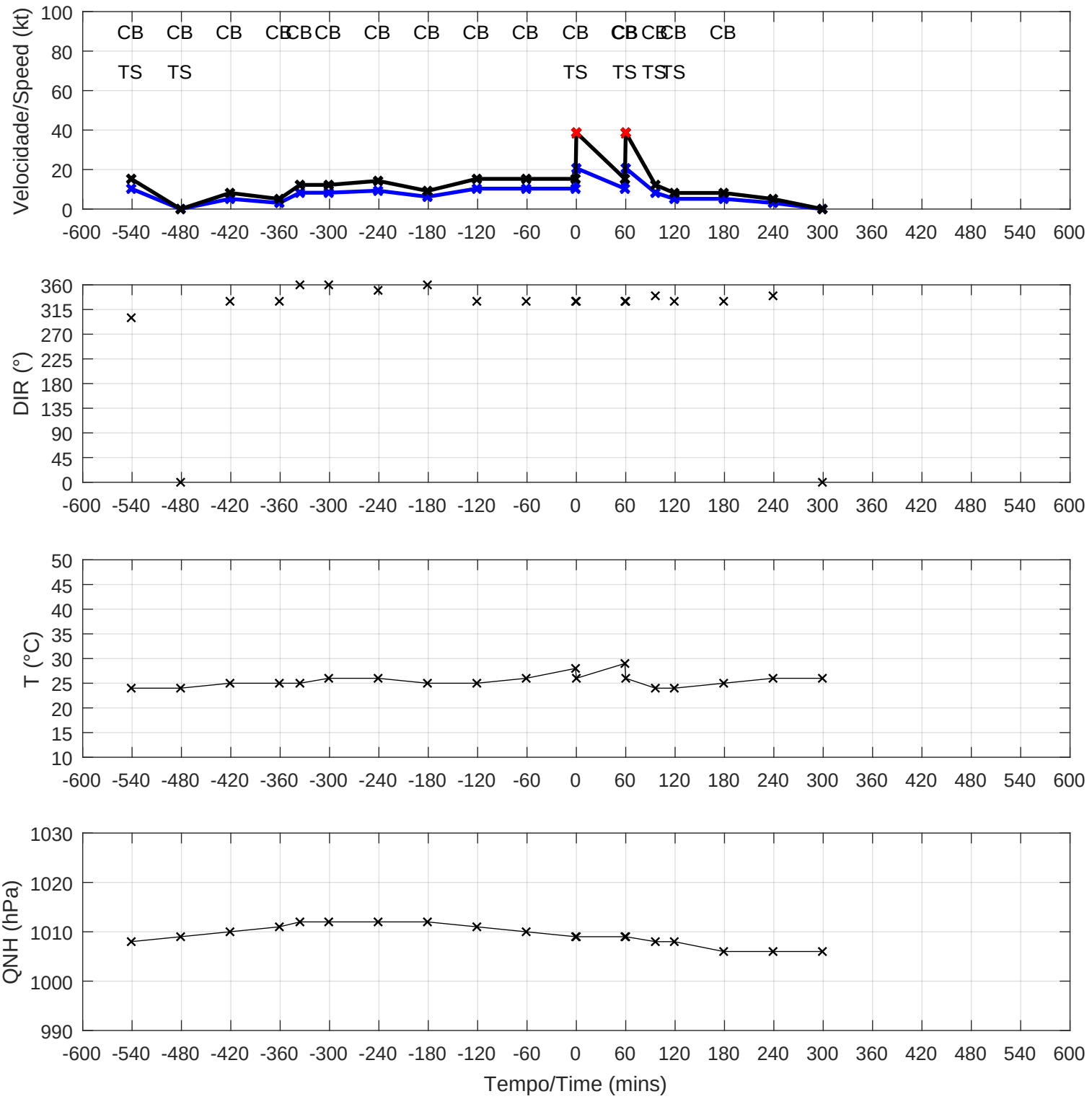
Modelo Climático para Ventos Extremos no Brasil/Brazilian Extreme Wind Climate

SLTR/85154 EVENTO/EVENT 13 - 29/11/2009, 18:01 UTC (MSS - REDEMET)

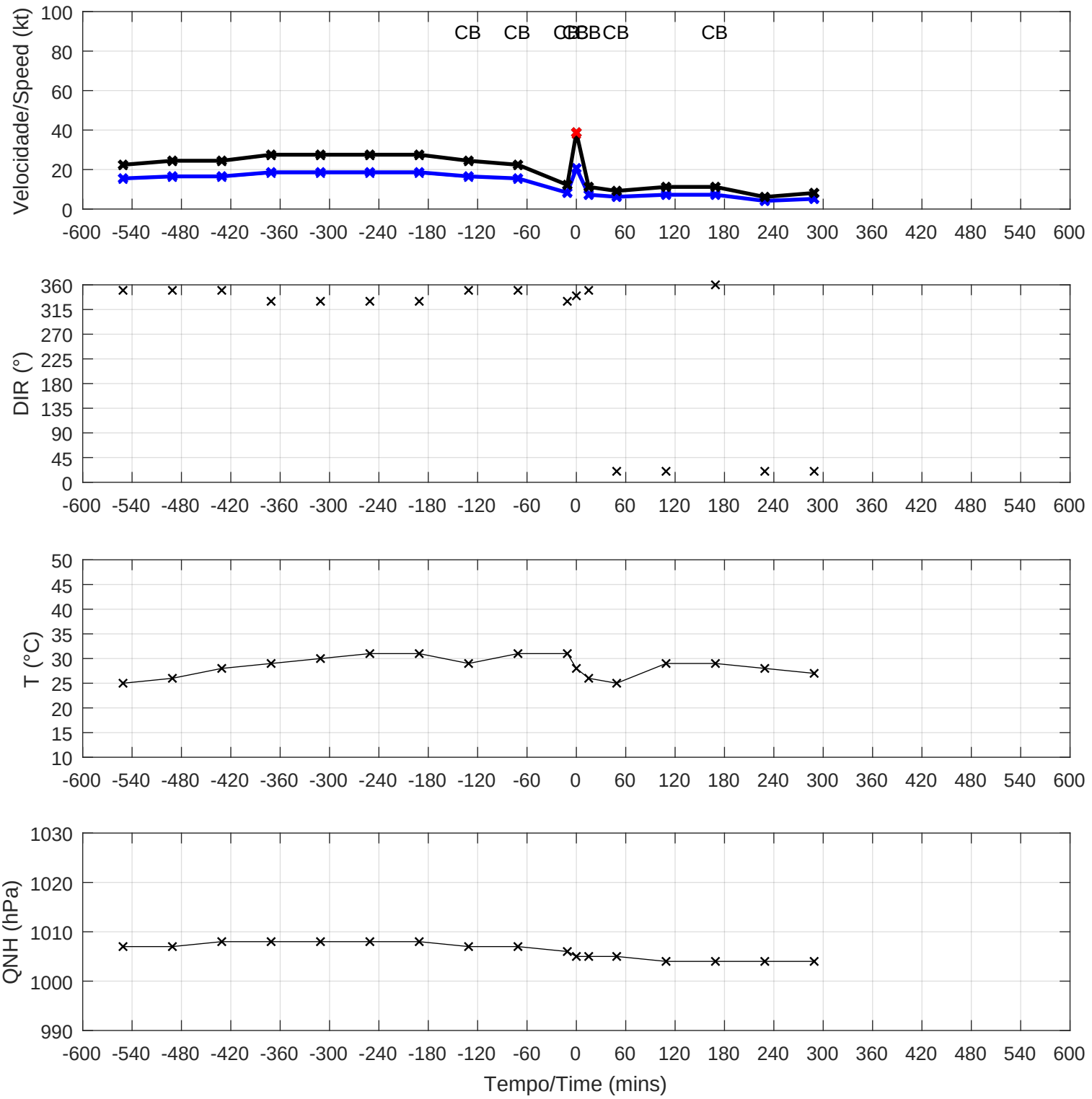
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G_{obs} = 38 kt	R_{-6} = 2.9	$T_{med,3}$ = 25.5 °C	DIR = 330°	SIM/YES	NÃO-SINÓTICO
V_{obs} = 20 kt	R_{-3} = 2.5	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = 0°		NON-SYNOPTIC
G_V = 1.9	R_{+3} = 2.6	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 10°		(114)
G_{cor} = 38.7 kt	R_{+6} = 3.9	Δ Grupo/Group = 3	SLTR 291801Z 33020G38KT 0800 +TSRA SCT015 FEW017CB SCT080BKN200 26/25 Q1009=		
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

SLTR/85154 EVENTO/EVENT 14 - 28/12/2009, 19:11 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} = 38 kt	R_{-6} = 1.5	$T_{med,3}$ = 30.0 °C	DIR = 340°	NÃO/NO	SINÓTICO
V_{obs} = 20 kt	R_{-3} = 1.7	$\Delta T_{min,3}$ = -6.0 °C	$\Delta DIR_{max,-3}$ = 10°		SYNOPTIC
G_V = 1.9	R_{+3} = 3.6	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 40°		(214)
G_{cor} = 38.7 kt	R_{+6} = 4.1	Δ Grupo/Group = 3	SLTR 281911Z 34020G38KT 0500 +SHRA FEW017 FEW020CB BKN200 28/25Q1005=		
V_{cor} = 20.7 kt					



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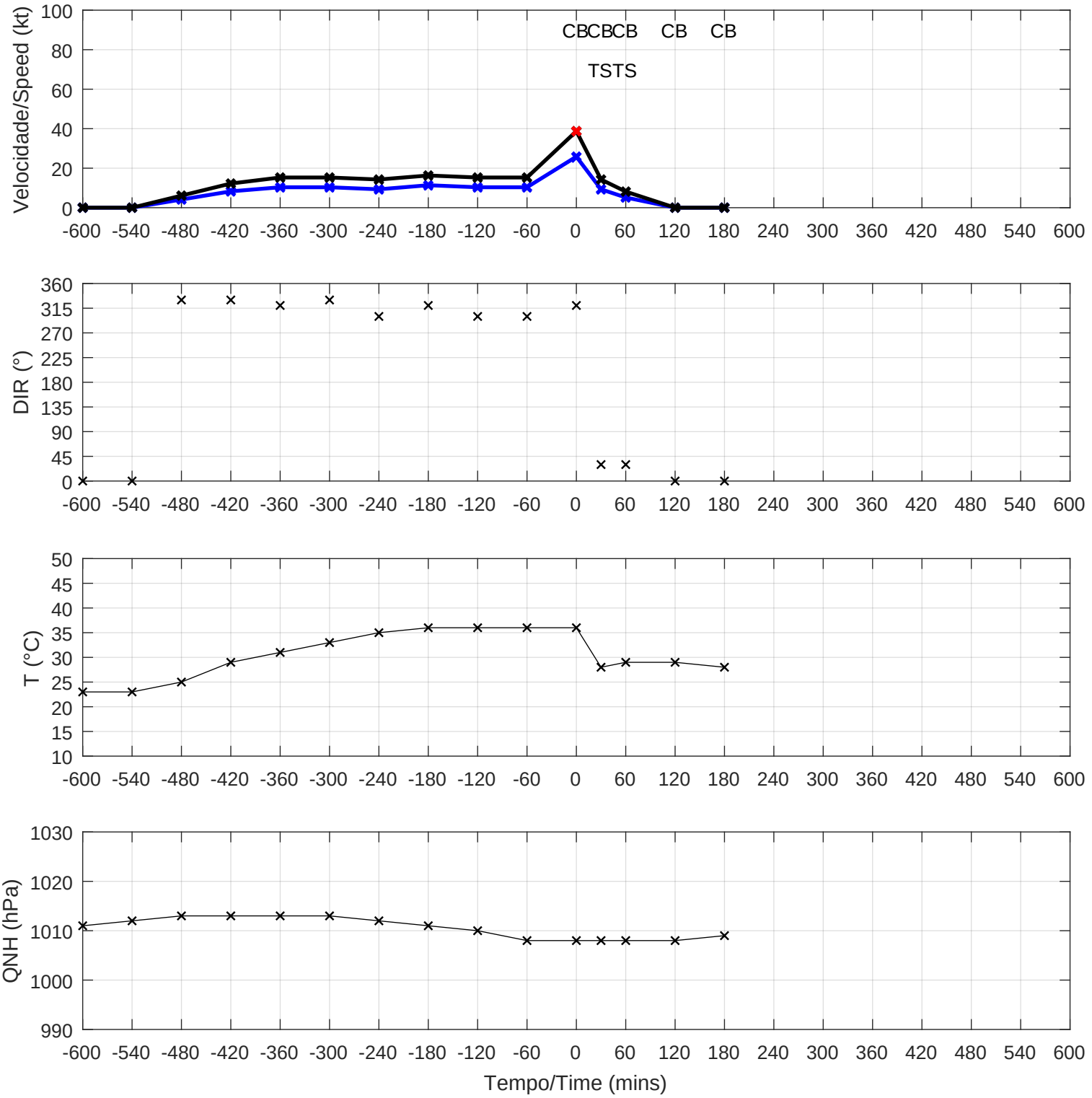
Modelo Climático para Ventos Extremos no Brasil/Brazilian Extreme Wind Climate

SLTR/85154 EVENTO/EVENT 15 - 17/09/2011, 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} = 38 kt	R_{-6} = 2.5	$T_{med,3}$ = 36.0 °C	DIR = 320°	SIM/YES	NÃO-SINÓTICO
V_{obs} = 25 kt	R_{-3} = 2.5	$\Delta T_{min,3}$ = -8.0 °C	$\Delta DIR_{max,-3}$ = 20°		NON-SYNOPTIC
G_V = 1.5	R_{+3} = 8.9	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 70°		(110)
G_{cor} = 38.7 kt	R_{+6} = [ ]	Δ Grupo/Group = 2	SLTR 172000Z 32025G38KT 8000 VCSH SCT023 FEW025CB SCT200 36/21Q1008=		
V_{cor} = 25.9 kt					



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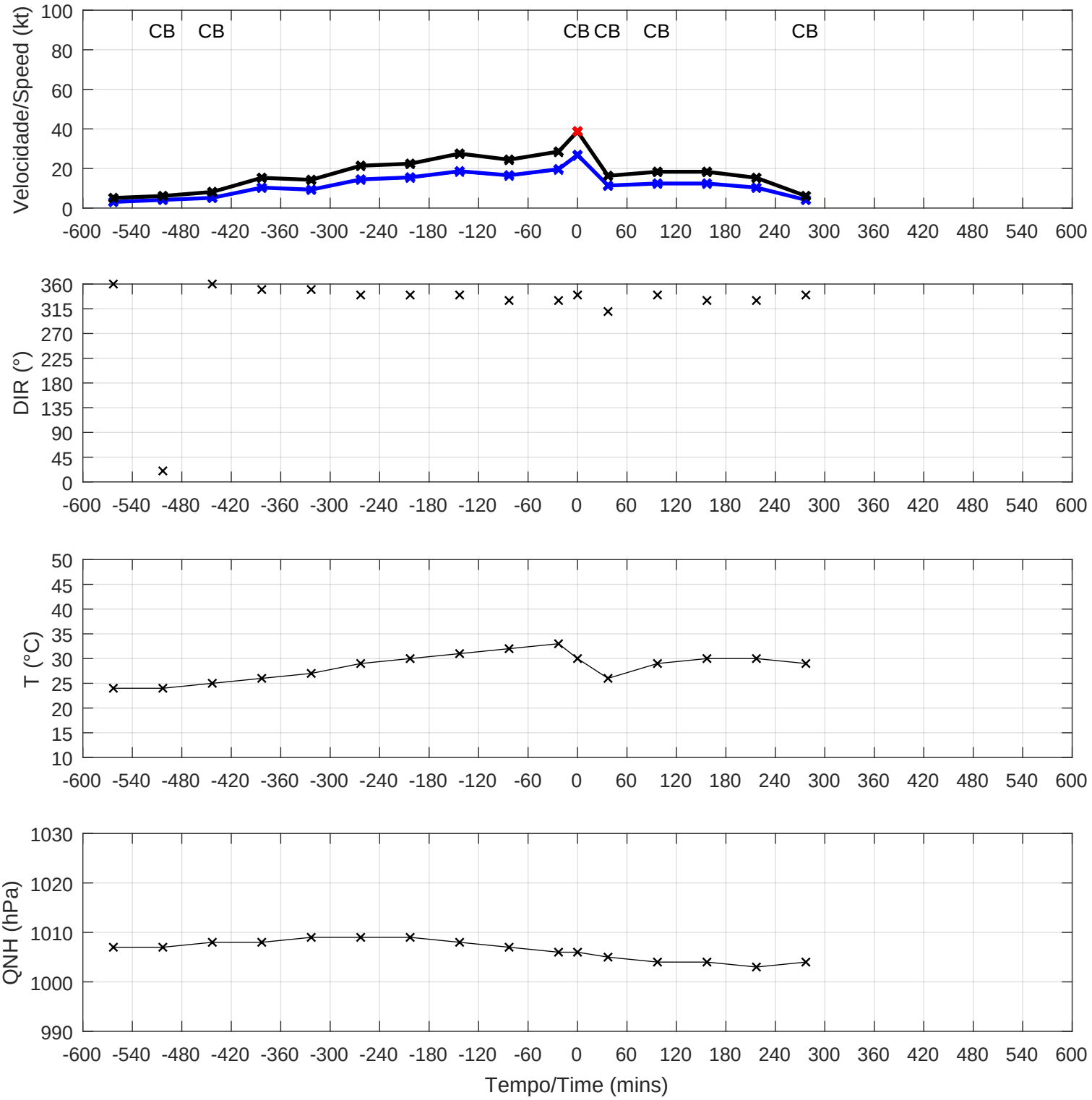
Modelo Climático para Ventos Extremos no Brasil/Brazilian Extreme Wind Climate

SLTR/85154 EVENTO/EVENT 16 - 02/01/2014, 18:23 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} = 38 kt	R_{-6} = 1.7	$T_{med,3}$ = 31.5 °C	DIR = 340°	NÃO/NO	SINÓTICO
V_{obs} = 26 kt	R_{-3} = 1.5	$\Delta T_{min,3}$ = -7.0 °C	$\Delta DIR_{max,-3}$ = 10°		SYNOPTIC
G_V = 1.5	R_{+3} = 2.2	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 30°		(211)
G_{cor} = 38.7 kt	R_{+6} = 2.6	Δ Grupo/Group = 2	SPECI SLTR 021823Z 34026G38KT 5000 -SHRA SCT017 FEW020CB 30/23Q1006=		
V_{cor} = 26.9 kt					



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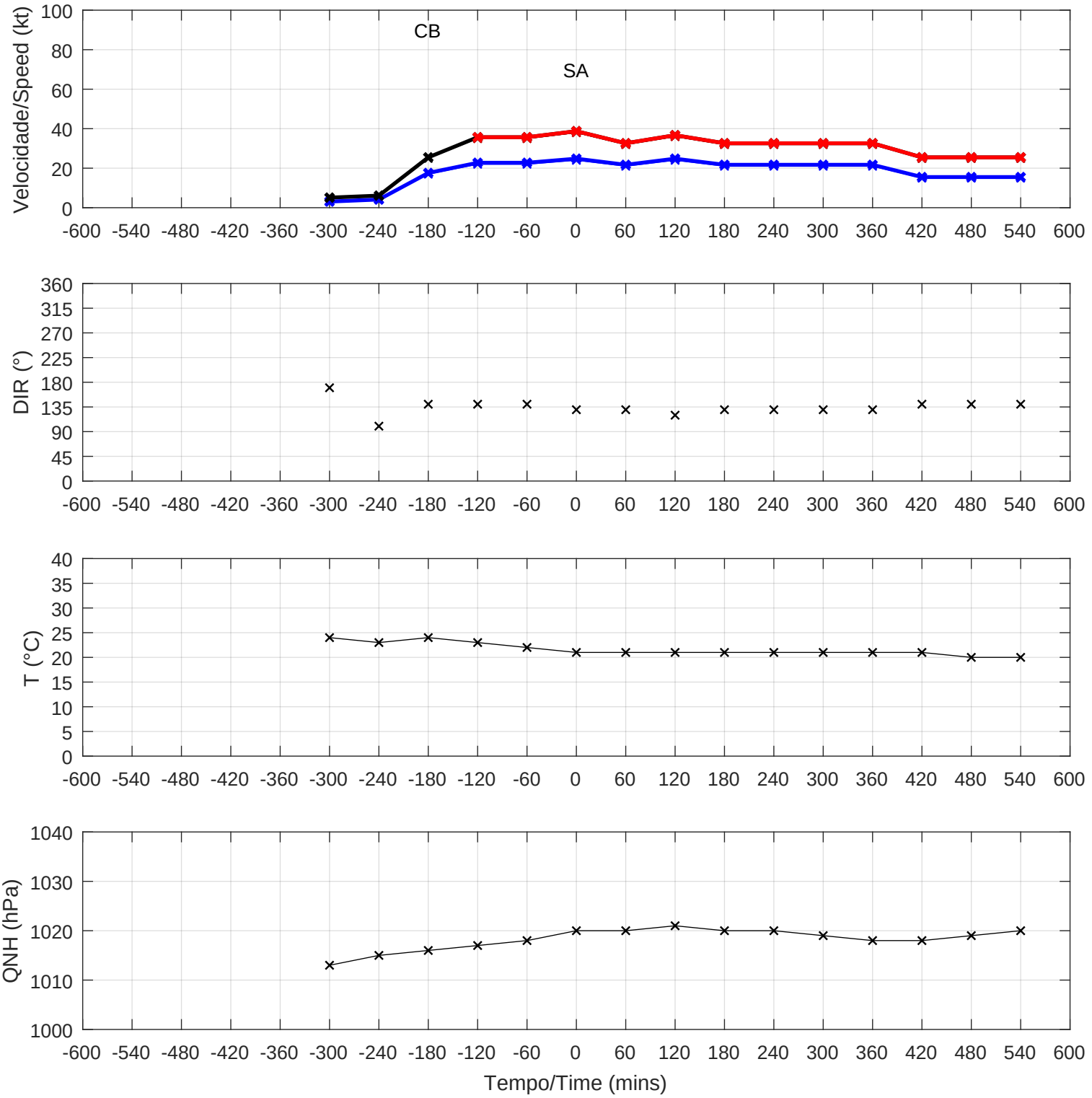
SLTR/85154 EVENTO/EVENT 17 - 13/08/2014, 14:00 UTC (MSS - REDEMET)

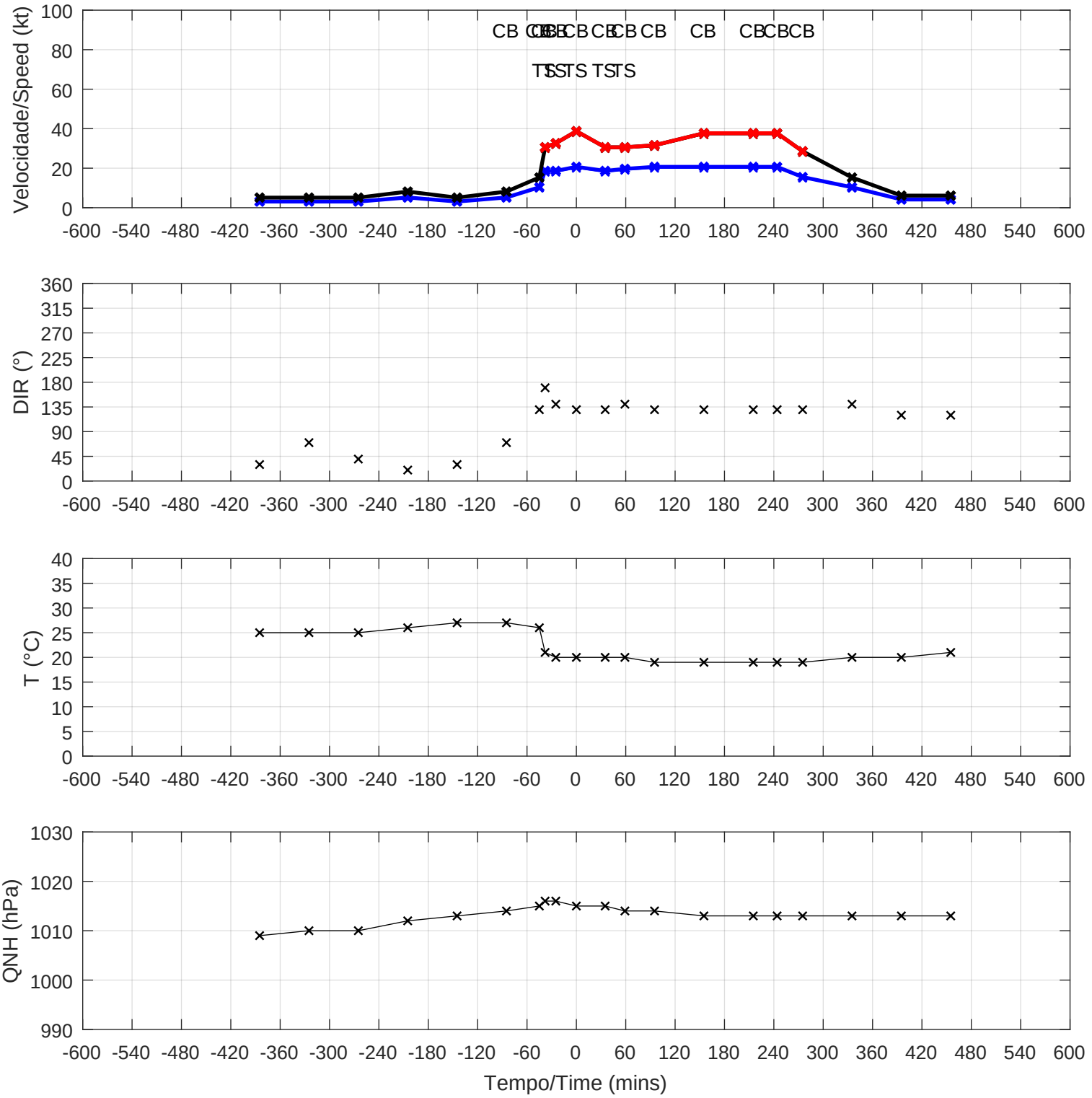
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G_{obs} = 38 kt	R_{-6} = 1.8	$T_{med,3}$ = 23.0 °C	DIR = 130°	NÃO/NO	SINÓTICO
V_{obs} = 24 kt	R_{-3} = 1.2	$\Delta T_{min,3}$ = -2.0 °C	$\Delta DIR_{max,-3}$ = 10°		SYNOPTIC
G_V = 1.6	R_{+3} = 1.1	$\Delta Q_{max,3}$ = 3.0 hPa	$\Delta DIR_{max,+3}$ = 10°		(212)
G_{cor} = 38.7 kt	R_{+6} = 1.2	Δ Grupo/Group = 1	METAR SLTR 131400Z 13024G38KT 5000 SA SCT020 SCT070 21/13 Q1020=		
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

SLTR/85154 EVENTO/EVENT 18 - 25/03/2018, 15:25 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} = 38 kt	R_{-6} = 4.1	$T_{med,3}$ = 27.0 °C	DIR = 130°	SIM/YES	NÃO-SINÓTICO
V_{obs} = 20 kt	R_{-3} = 2.9	$\Delta T_{min,3}$ = -7.0 °C	$\Delta DIR_{max,-3}$ = 100°		NON-SYNOPTIC
G_V = 1.9	R_{+3} = 1.2	$\Delta Q_{max,3}$ = 2.0 hPa	$\Delta DIR_{max,+3}$ = 10°		(110)
G_{cor} = 38.7 kt	R_{+6} = 1.3	Δ Grupo/Group = 1	SPECI SLTR 251525Z 13020G38KT 2000 TSRA BKN005 FEW020CB OVC070 20/19Q1015=		
V_{cor} = 20.7 kt					



Matthew Bruce Vallis (matthewbvallis@gmail.com) Tese de Doutorado/Doctorate Thesis, Porto Alegre: PPGEC/UFRGS, 2019
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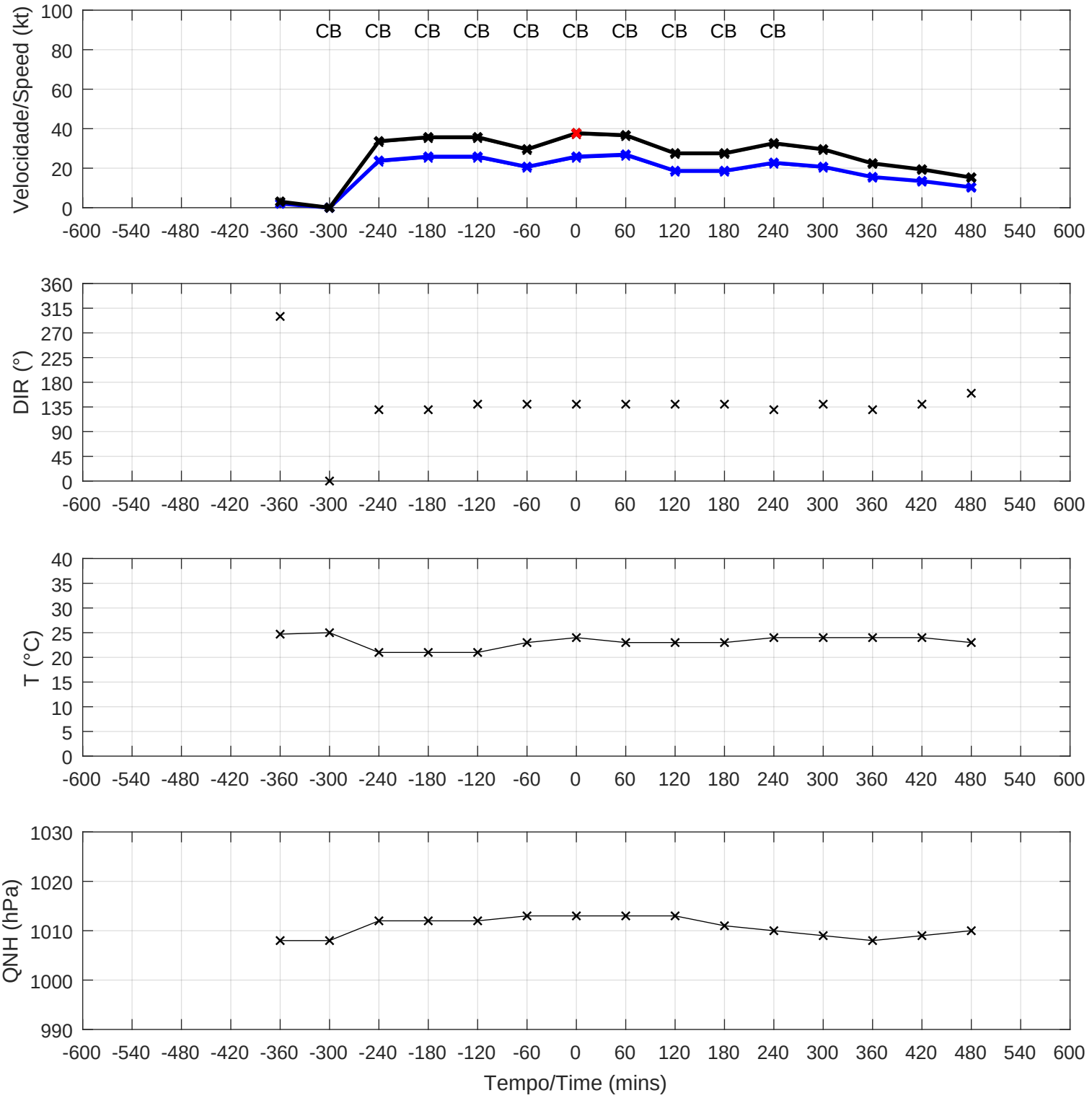
SLTR/85154 EVENTO/EVENT 19 - 16/11/2008, 15:00 UTC (MSS - REDEMET)

Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G_{obs} = 37 kt	R_{-6} = 1.6	$T_{med,3}$ = 21.7 °C	DIR = 140°	NÃO/NO	SINÓTICO
V_{obs} = 25 kt	R_{-3} = 1.1	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = 10°		SYNOPTIC
G_V = 1.5	R_{+3} = 1.2	$\Delta Q_{max,3}$ = 1.0 hPa	$\Delta DIR_{max,+3}$ = 0°		(215)
G_{cor} = 37.7 kt	R_{+6} = 1.3	Δ Grupo/Group = 3	SLTR 161500Z 14025G37KT 9999 FEW008 SCT020 FEW023CB BKN20024/18 Q1013=		
V_{cor} = 25.9 kt					



Matthew Bruce Vallis (matthewbvallis@gmail.com) Tese de Doutorado/Doctorate Thesis, Porto Alegre: PPGEC/UFRGS, 2019
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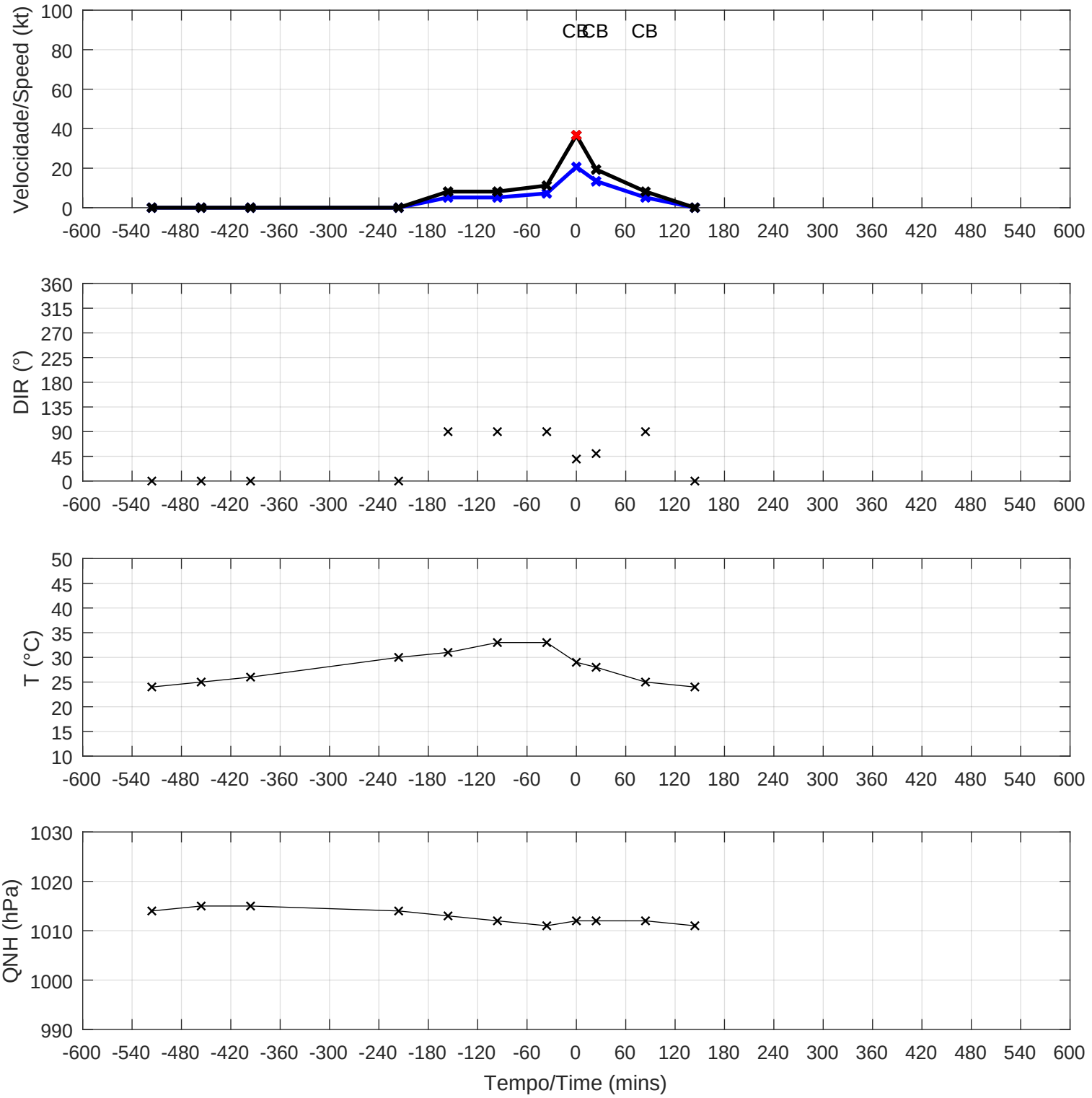
SLTR/85154 EVENTO/EVENT 20 - 05/04/2000, 20:36 UTC (MSS - NCEI/NCDC)

Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G_{obs} = 36 kt	R_{-6} = 5.7	$T_{med,3}$ = 32.0 °C	DIR = 40°	NÃO/NO	NÃO-SINÓTICO
V_{obs} = 20 kt	R_{-3} = 4.1	$\Delta T_{min,3}$ = -5.0 °C	$\Delta DIR_{max,-3}$ = 50°		NON-SYNOPTIC
G_V = 1.8	R_{+3} = 4.0	$\Delta Q_{max,3}$ = 1.0 hPa	$\Delta DIR_{max,+3}$ = 50°		(113)
G_{cor} = 36.7 kt	R_{+6} = [ ]	Δ Grupo/Group = 2	SLTR 052036Z SLTR 04020G36KT 7000 VCSH FEW020 FEW023CB BKN230 29/22 Q1012=		
V_{cor} = 20.7 kt					



Matthew Bruce Vallis (matthewbvallis@gmail.com) Tese de Doutorado/Doctorate Thesis, Porto Alegre: PPGEC/UFRGS, 2019
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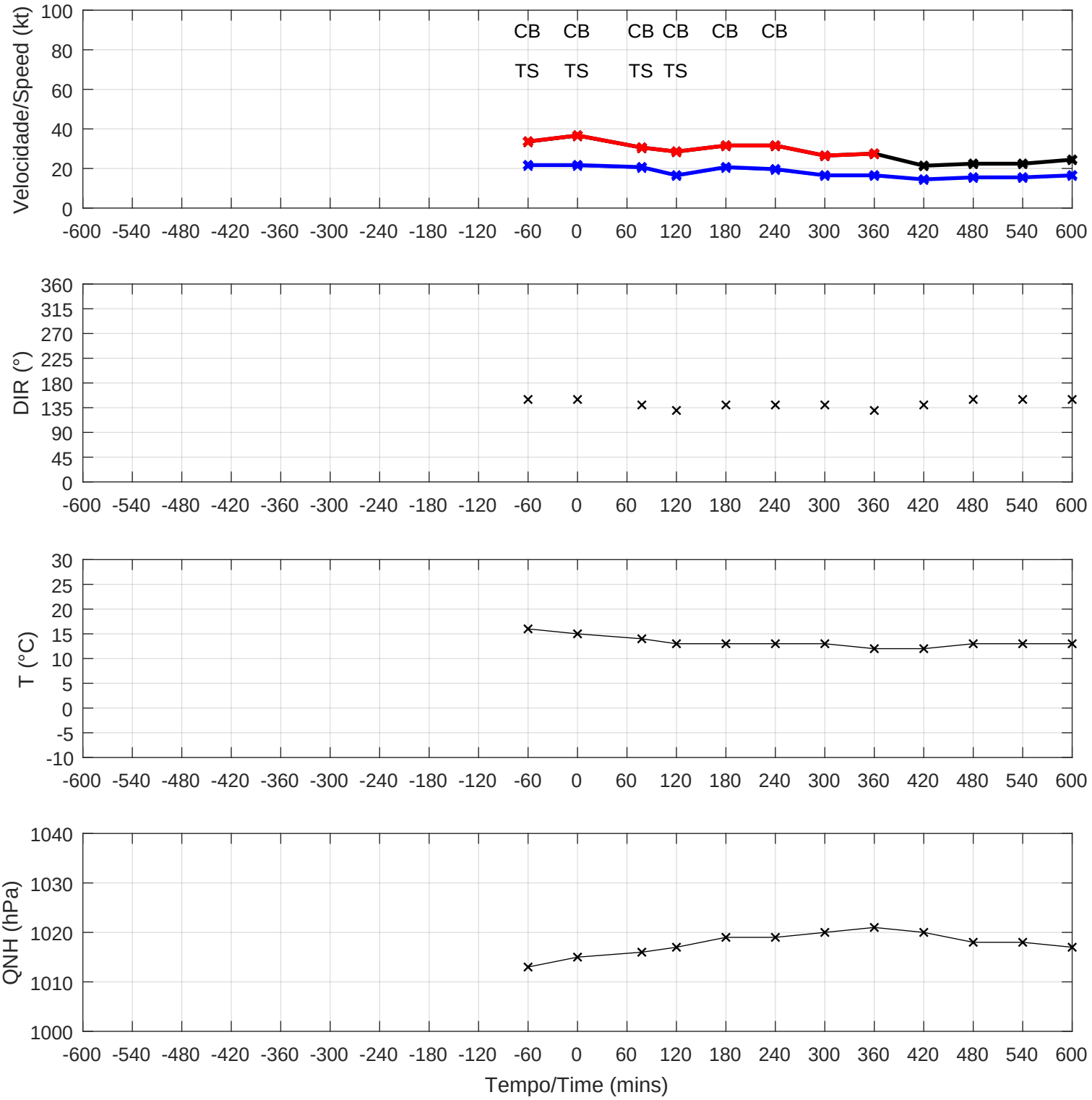
SLTR/85154 EVENTO/EVENT 21 - 23/05/2014, 10:00 UTC (MSS - REDEMET)

Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G_{obs} = 36 kt	R_{-6} = [ ]	$T_{med,3}$ = 16.0 °C	DIR = 150°	SIM/YES	SINÓTICO
V_{obs} = 21 kt	R_{-3} = 1.1	$\Delta T_{min,3}$ = -1.0 °C	$\Delta DIR_{max,-3}$ = 0°		SYNOPTIC
G_V = 1.7	R_{+3} = 1.2	$\Delta Q_{max,3}$ = 2.0 hPa	$\Delta DIR_{max,+3}$ = 20°		(210)
G_{cor} = 36.7 kt	R_{+6} = 1.3	Δ Grupo/Group = 2	METAR SLTR 231000Z 15021G36KT 2000 TSRA BKN003 FEW020CB OVC070 15/14Q1015=		
V_{cor} = 21.7 kt					



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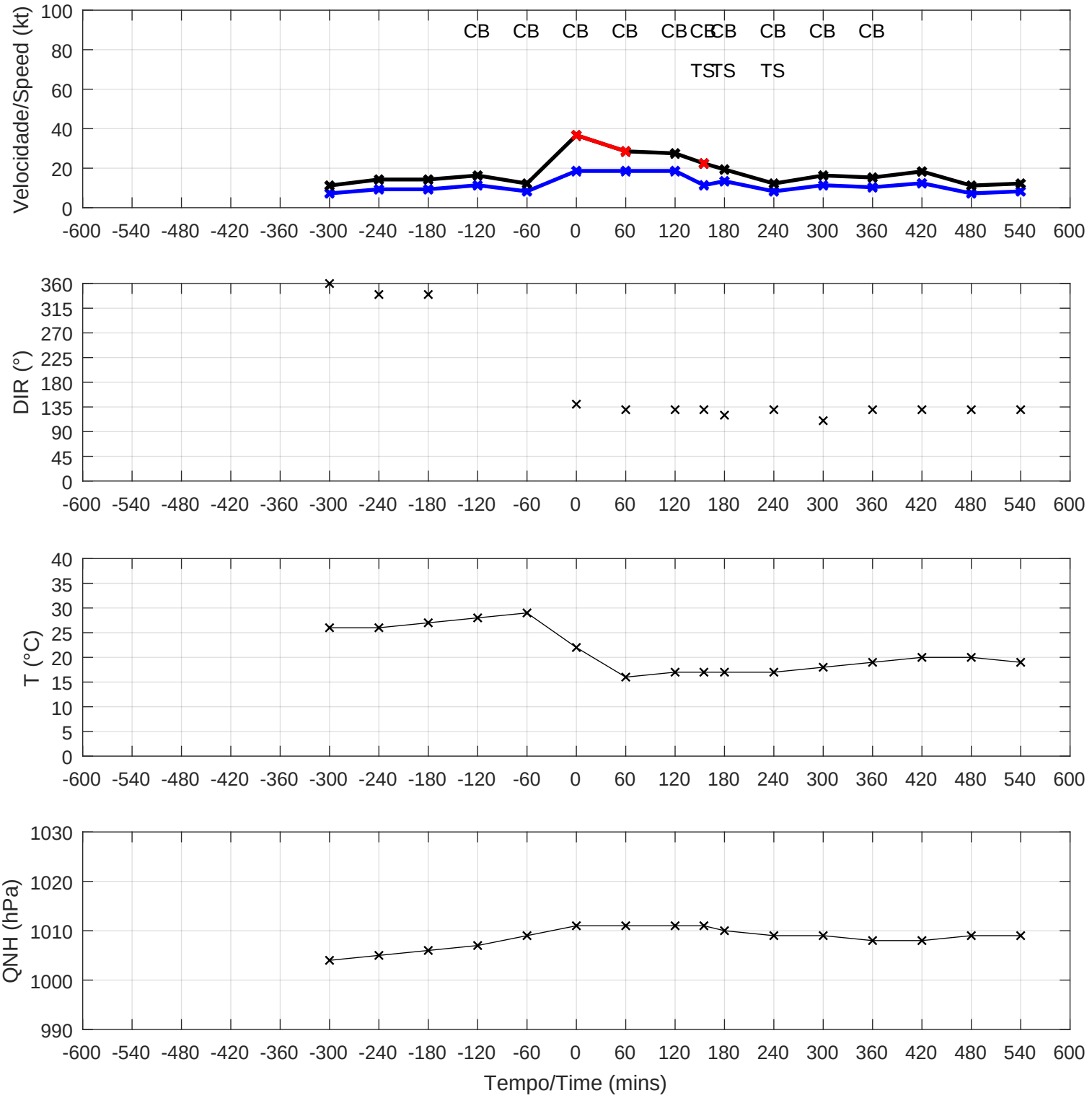
SLTR/85154 EVENTO/EVENT 22 - 02/10/2017, 14:00 UTC (MSS - REDEMET)

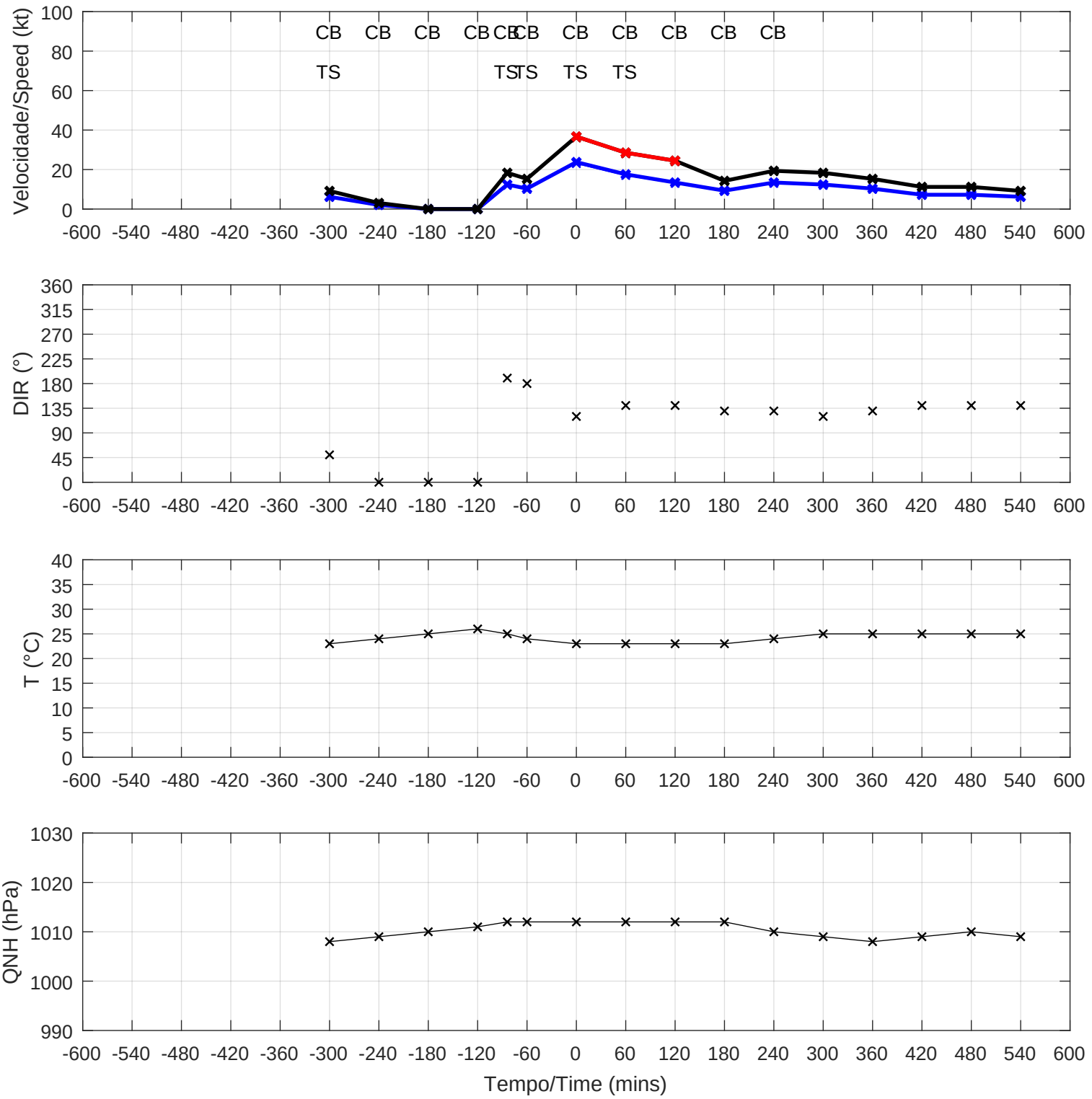
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G_{obs} = 36 kt	R_{-6} = 2.7	$T_{med,3}$ = 28.0 °C	DIR = 140°	NÃO/NO	SINÓTICO
V_{obs} = 18 kt	R_{-3} = 2.6	$\Delta T_{min,3}$ = -13.0 °C	$\Delta DIR_{max,-3}$ = 160°		SYNOPTIC
G_V = 2.0	R_{+3} = 1.5	$\Delta Q_{max,3}$ = 4.0 hPa	$\Delta DIR_{max,+3}$ = 20°		(211)
G_{cor} = 36.7 kt	R_{+6} = 1.9	Δ Grupo/Group = 1	METAR SLTR 021400Z 14018G36KT 9999 BKN015 FEW020CB 22/16Q1011=		
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

SLTR/85154 EVENTO/EVENT 23 - 18/12/2017, 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} = 36 kt	R_{-6} = 5.3	$T_{med,3}$ = 24.9 °C	DIR = 120°	SIM/YES	NÃO-SINÓTICO
V_{obs} = 23 kt	R_{-3} = 4.9	$\Delta T_{min,3}$ = -3.0 °C	$\Delta DIR_{max,-3}$ = 70°		NON-SYNOPTIC
G_V = 1.6	R_{+3} = 1.6	$\Delta Q_{max,3}$ = 1.0 hPa	$\Delta DIR_{max,+3}$ = 20°		(110)
G_{cor} = 36.7 kt	R_{+6} = 1.8	Δ Grupo/Group = 2	METAR SLTR 181400Z 12023G36KT 0500 +TSRA BKN005 BKN020CB 23/23Q1012=		
V_{cor} = 23.8 kt					



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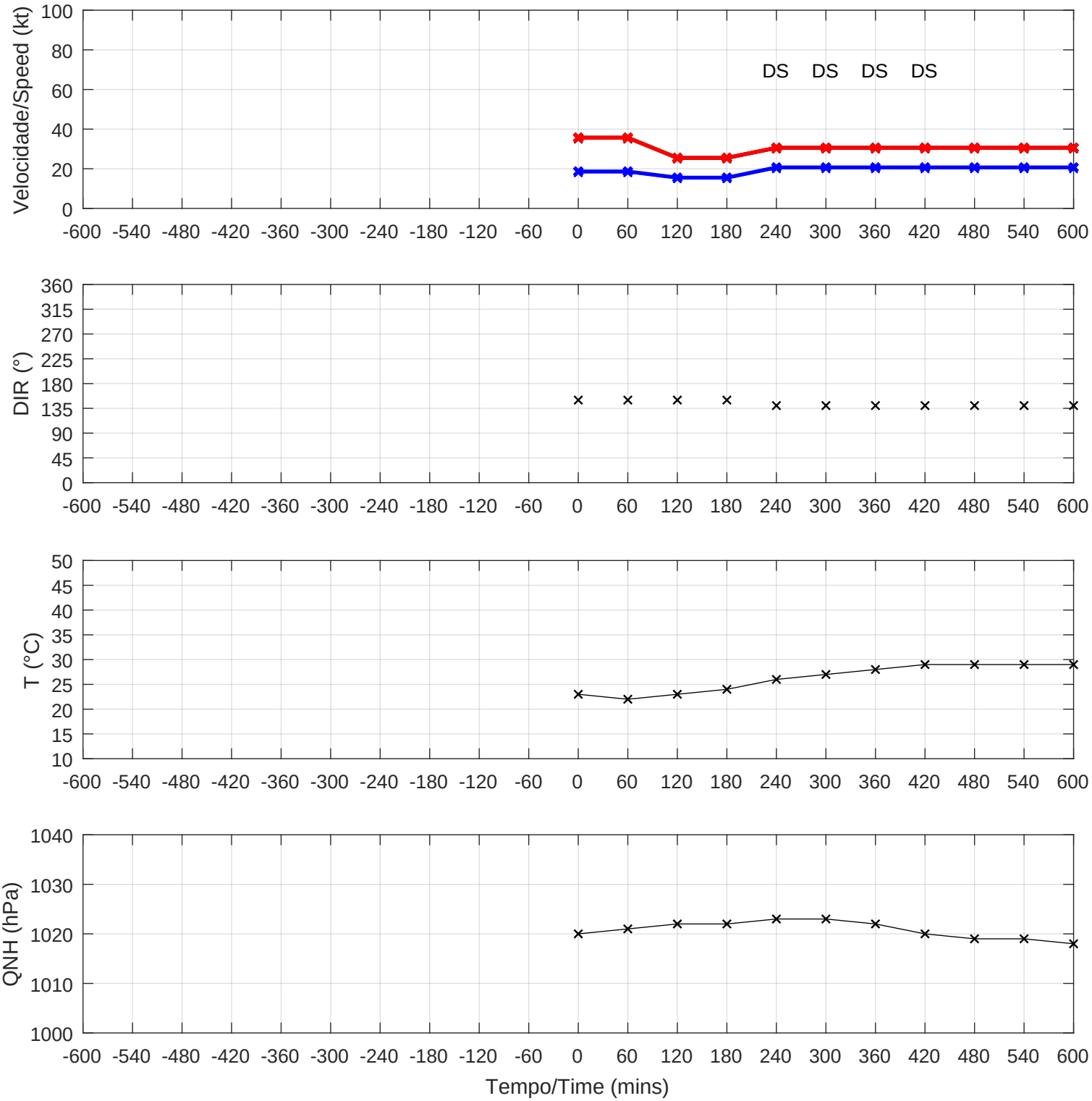
Modelo Climático para Ventos Extremos no Brasil/Brazilian Extreme Wind Climate

SLTR/85154 EVENTO/EVENT 24 - 21/07/1996, 10:00 UTC (MSS - WUNDERGROUND)

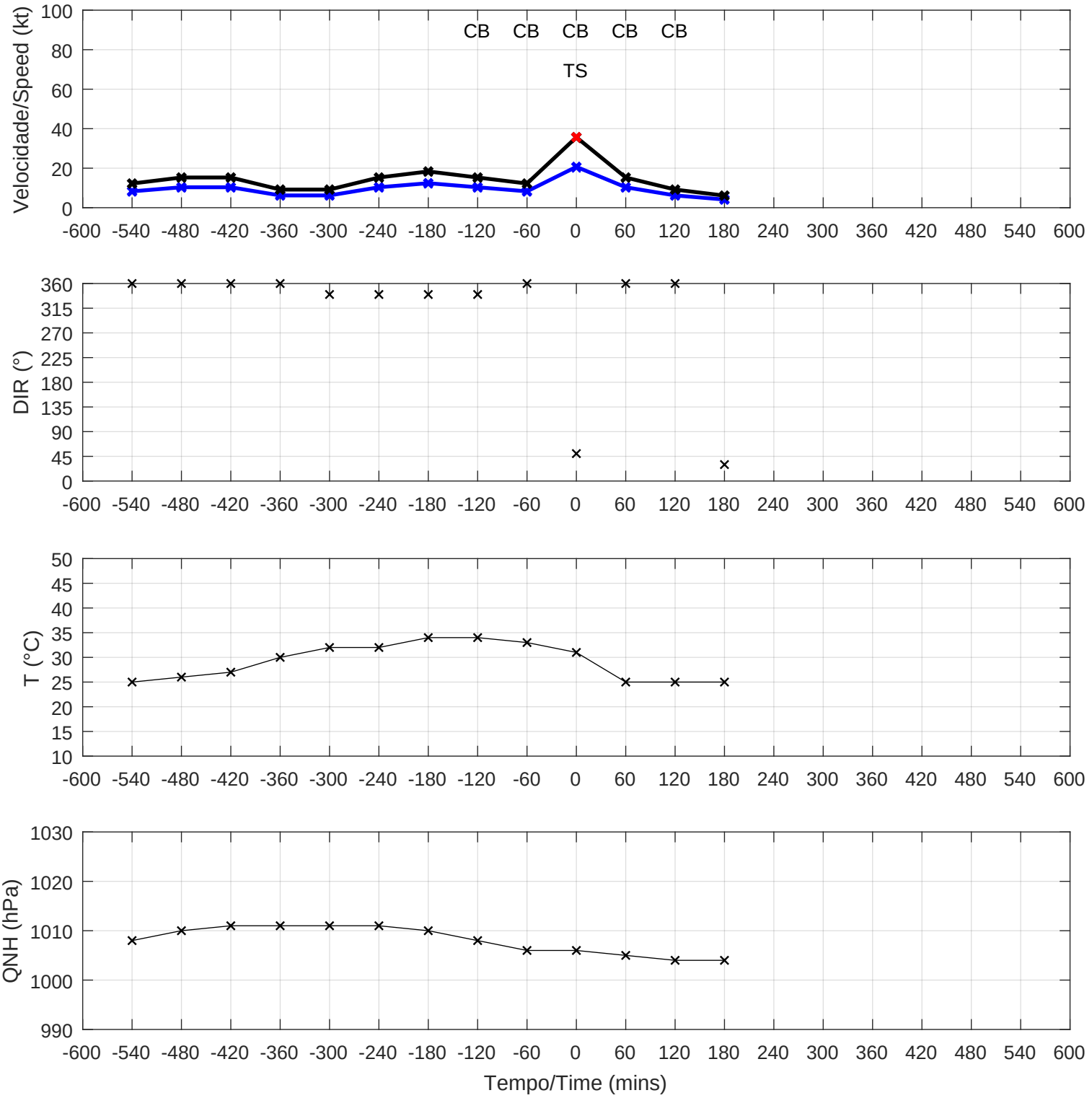
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G_{obs} = 35 kt	R_{-6} = [ ]	$T_{med,3}$ = [ ]	DIR = 150°	NÃO/NO	SINÓTICO
V_{obs} = 18 kt	R_{-3} = [ ]	$\Delta T_{min,3}$ = -1.0 °C	$\Delta DIR_{max,-3}$ = [ ]		SYNOPTIC
G_V = 1.9	R_{+3} = 1.2	$\Delta Q_{max,3}$ = 1.0 hPa	$\Delta DIR_{max,+3}$ = 0°		(215)
G_{cor} = 35.7 kt	R_{+6} = 1.2	Δ Grupo/Group = 3	METAR SLTR 211000Z 15018G35KT 9999 FEW080 23/12 Q1020		
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

SLTR/85154 EVENTO/EVENT 25 - 09/10/1996, 20:00 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	$T_{med,3}$ = 33.7 °C	DIR = 50°	SIM/YES	NÃO-SINÓTICO
V_{obs} = 20 kt	R_{-3} = 2.3	$\Delta T_{min,3}$ = -9.0 °C	$\Delta DIR_{max,-3}$ = 70°		NON-SYNOPTIC
G_V = 1.8	R_{+3} = 3.5	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 50°		(110)
G_{cor} = 35.7 kt	R_{+6} = [ ]	Δ Grupo/Group = 2	METAR SLTR 092000Z 05020G35KT 9999 TS SCT017 FEW020CB BKN200 31/24 Q1006		
V_{cor} = 20.7 kt					



Matthew Bruce Vallis (matthewbvallis@gmail.com) Tese de Doutorado/Doctorate Thesis, Porto Alegre: PPGEC/UFRGS, 2019
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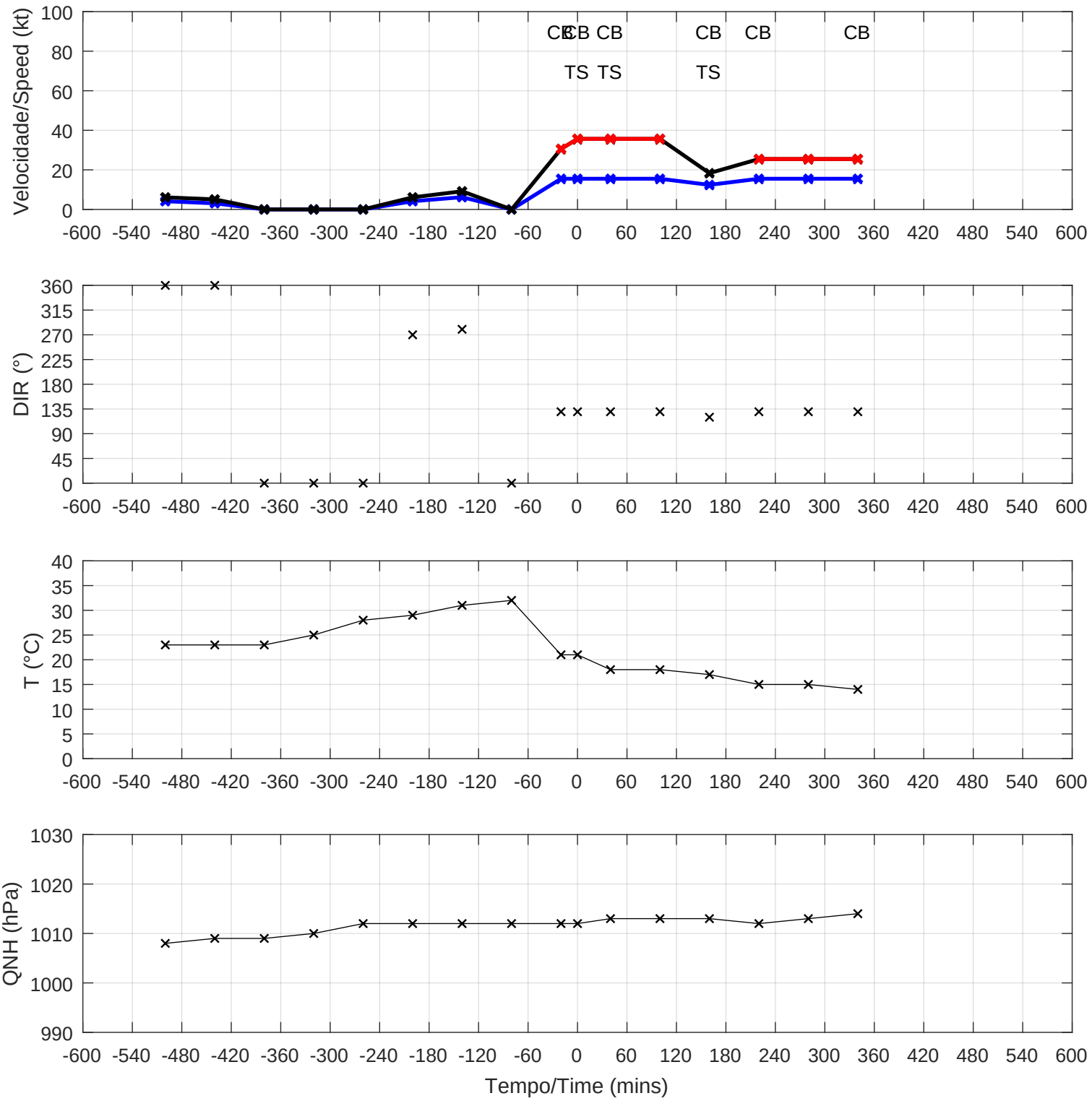
SLTR/85154 EVENTO/EVENT 26 - 22/05/1997, 17:20 UTC (MSS - WUNDERGROUND)

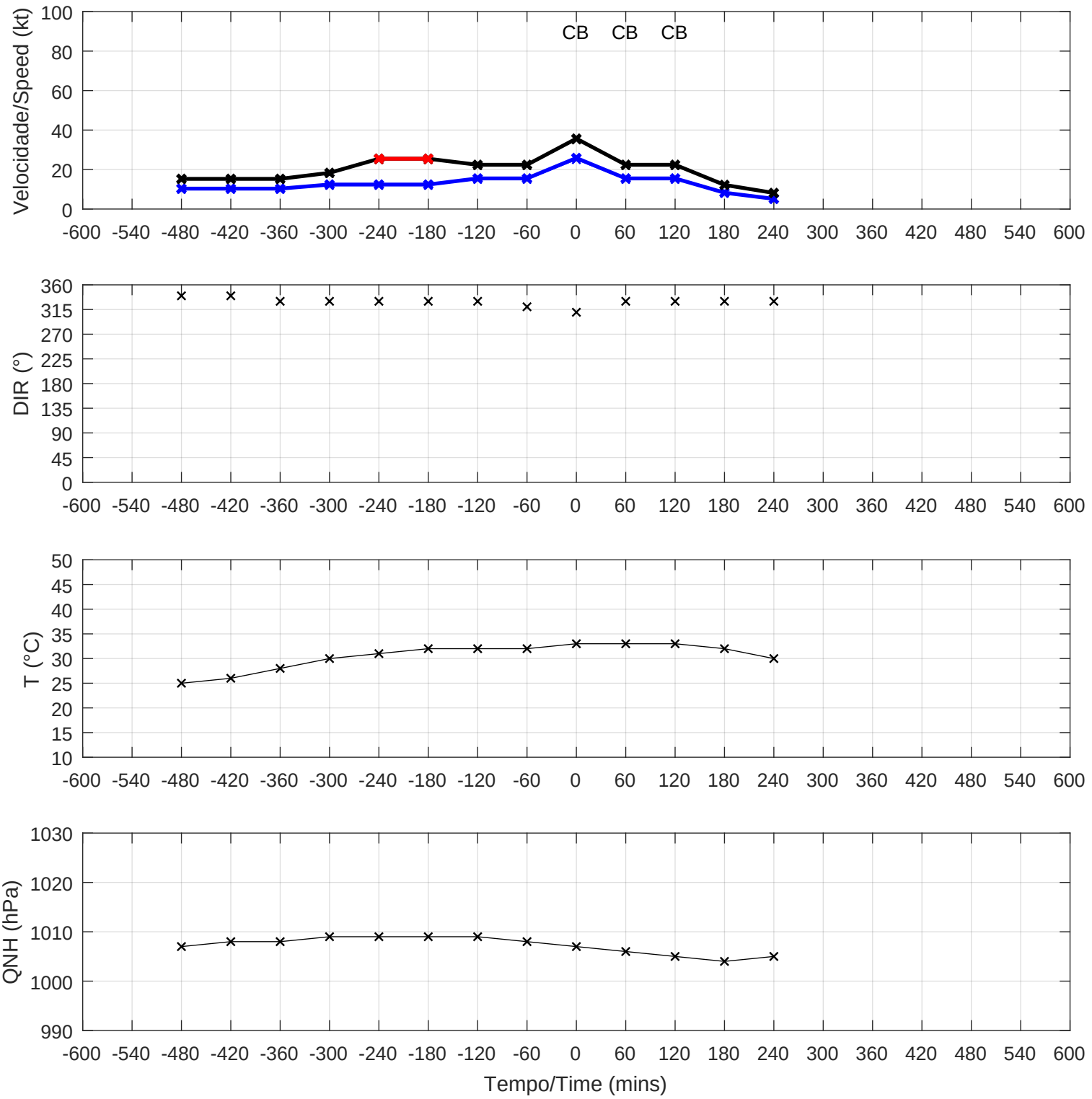
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G_{obs} = 35 kt	R_{-6} = 7.5	$T_{med,3}$ = 31.5 °C	DIR = 130°	SIM/YES	NÃO-SINÓTICO
V_{obs} = 15 kt	R_{-3} = 4.3	$\Delta T_{min,3}$ = -14.0 °C	$\Delta DIR_{max,-3}$ = 150°		NON-SYNOPTIC
G_V = 2.3	R_{+3} = 1.2	$\Delta Q_{max,3}$ = 1.0 hPa	$\Delta DIR_{max,+3}$ = 10°		(110)
G_{cor} = 35.7 kt	R_{+6} = 1.3	Δ Grupo/Group = 1	METAR SLTR 221720Z 13015G35KT 3000 -TSRA SCT010 SCT017 FEW023CB OVC070 21/20 Q1012		
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

SLTR/85154 EVENTO/EVENT 27 - 26/01/1998, 19:00 UTC (MSS - WUNDERGROUND)

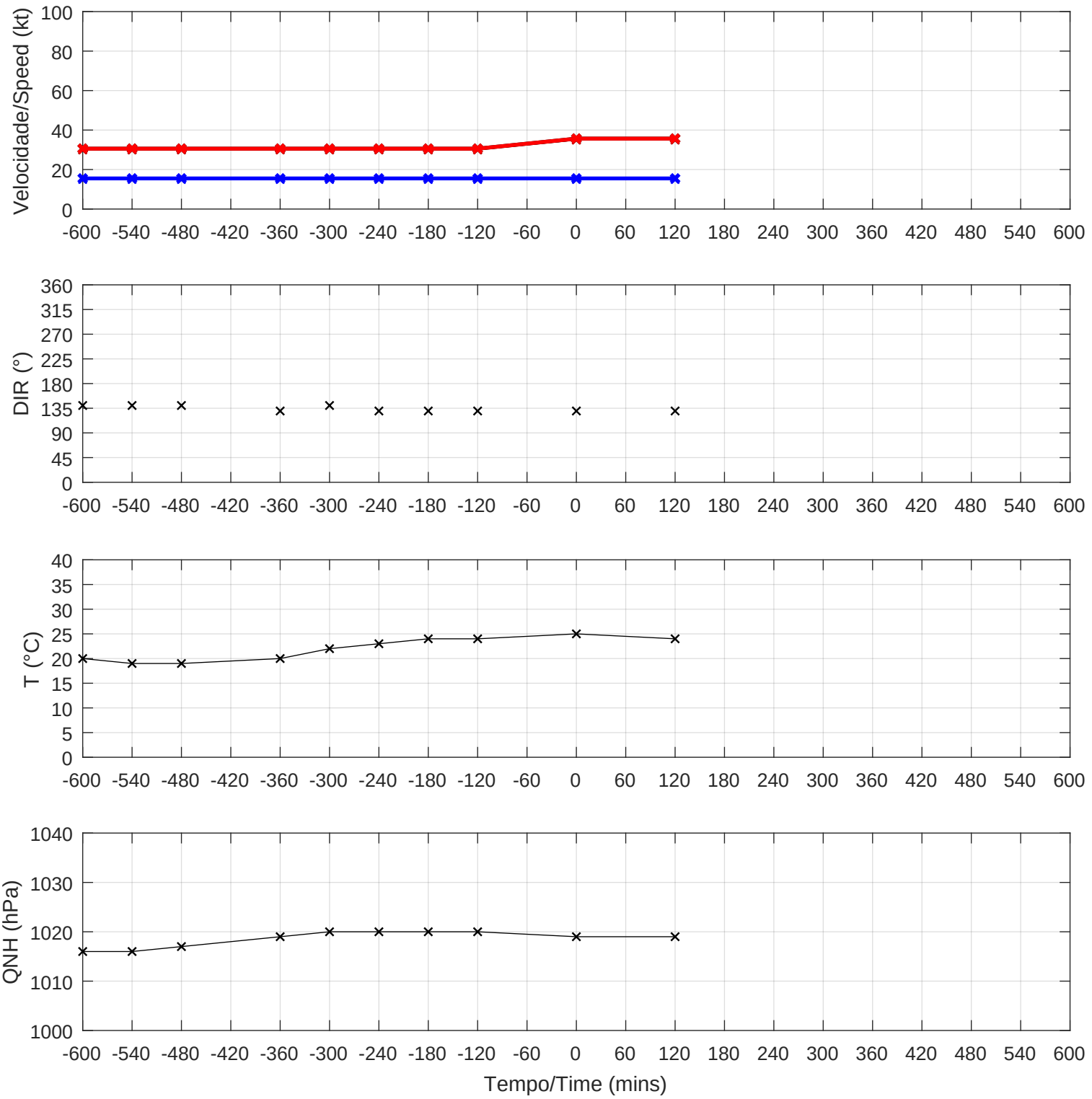
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G* = 35 kt	R_{-6} = 1.7	$T_{med,3}$ = 32.0 °C	DIR = 310°	NÃO/NO	SINÓTICO
V_{obs} = 25 kt	R_{-3} = 1.5	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = 20°		SYNOPTIC
G_V = [ ]	R_{+3} = 1.9	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 20°		(226)
G_{cor} = 35.7 kt	R_{+6} = 2.2	Δ Grupo/Group = 3	METAR SLTR 261900Z 31025KT 9999 SCT017 FEW020CB BKN200 33/25 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

SLTR/85154 EVENTO/EVENT 28 - 24/06/1998, 19:00 UTC (MSS - WUNDERGROUND)

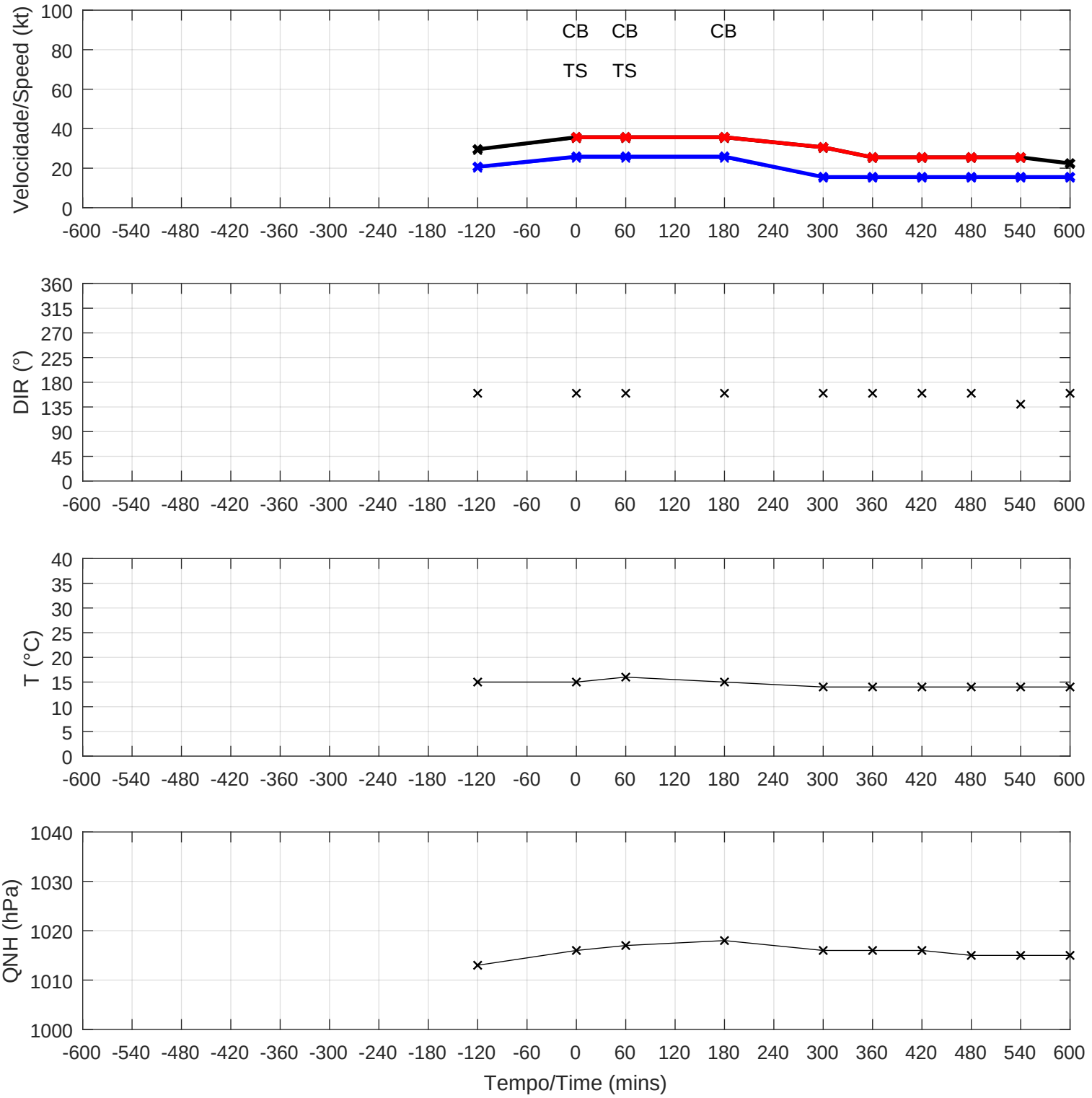
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G_{obs} = 35 kt	R_{-6} = 1.2	$T_{med,3}$ = 24.0 °C	DIR = 130°	NÃO/NO	SINÓTICO
V_{obs} = 15 kt	R_{-3} = 1.2	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = 0°		SYNOPTIC
G_V = 2.3	R_{+3} = 1.0	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 0°		(215)
G_{cor} = 35.7 kt	R_{+6} = [ ]	Δ Grupo/Group = 3	METAR SLTR 241900Z 13015G35KT 9999 SKC 25/14 Q1019		
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

SLTR/85154 EVENTO/EVENT 29 - 29/09/1998, 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} = 35 kt	R_{-6} = [ ]	$T_{med,3}$ = 15.0 °C	DIR = 160°	SIM/YES	SINÓTICO
V_{obs} = 25 kt	R_{-3} = 1.2	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = 0°		SYNOPTIC
G_V = 1.4	R_{+3} = 1.0	$\Delta Q_{max,3}$ = 4.0 hPa	$\Delta DIR_{max,+3}$ = 0°		(210)
G_{cor} = 35.7 kt	R_{+6} = 1.1	Δ Grupo/Group = 2	METAR SLTR 291300Z 16025G35KT 2000 -TSRA BKN007 SCT013 FEW023CB 15/15 Q1016		
V_{cor} = 25.9 kt					



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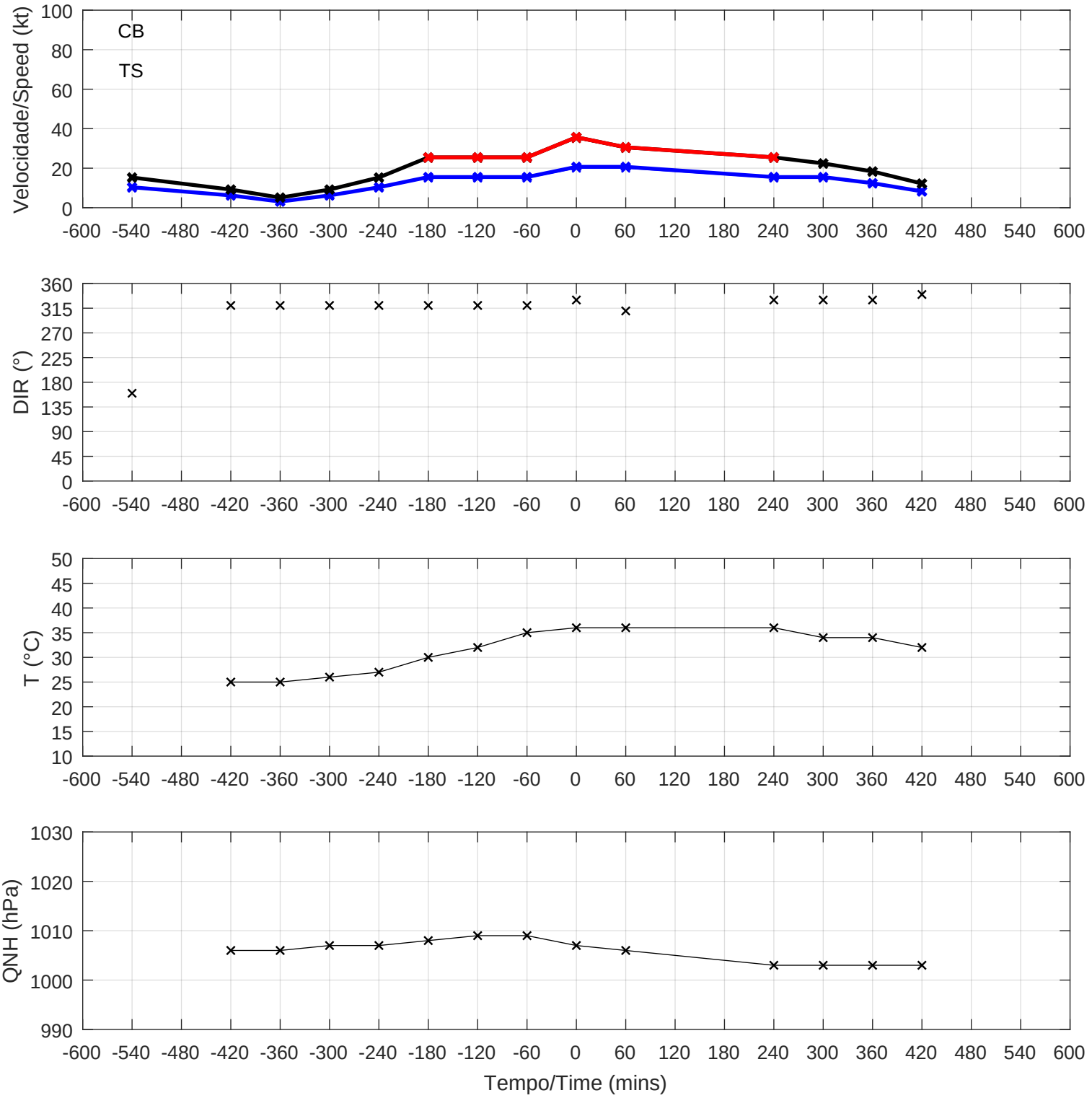
Modelo Climático para Ventos Extremos no Brasil/Brazilian Extreme Wind Climate

SLTR/85154 EVENTO/EVENT 30 - 07/09/1999, 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} = 2.0	$T_{med,3}$ = 32.3 °C	DIR = 330°	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} = 1.2	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 20°		(215)
G_{cor} = 35.7 kt	R_{+6} = 1.5	Δ Grupo/Group = 3	METAR SLTR 071600Z 33020G35KT 8000 FEW020 SCT230 36/22 Q1007		
V_{cor} = 20.7 kt					



Matthew Bruce Vallis (matthewbvallis@gmail.com) Tese de Doutorado/Doctorate Thesis, Porto Alegre: PPGEC/UFRGS, 2019
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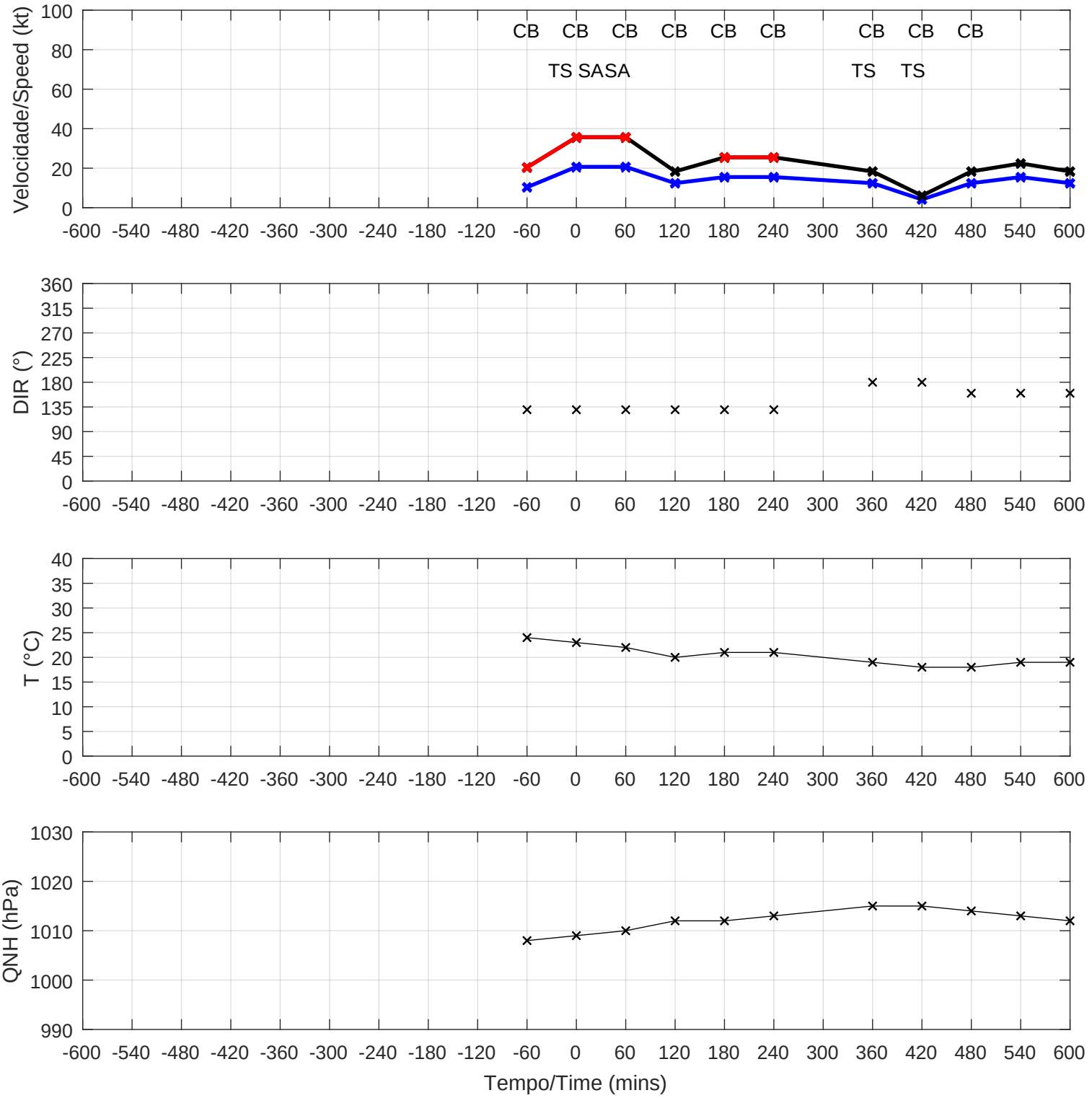
SLTR/85154 EVENTO/EVENT 31 - 15/09/1999, 10:00 UTC (MSS - WUNDERGROUND)

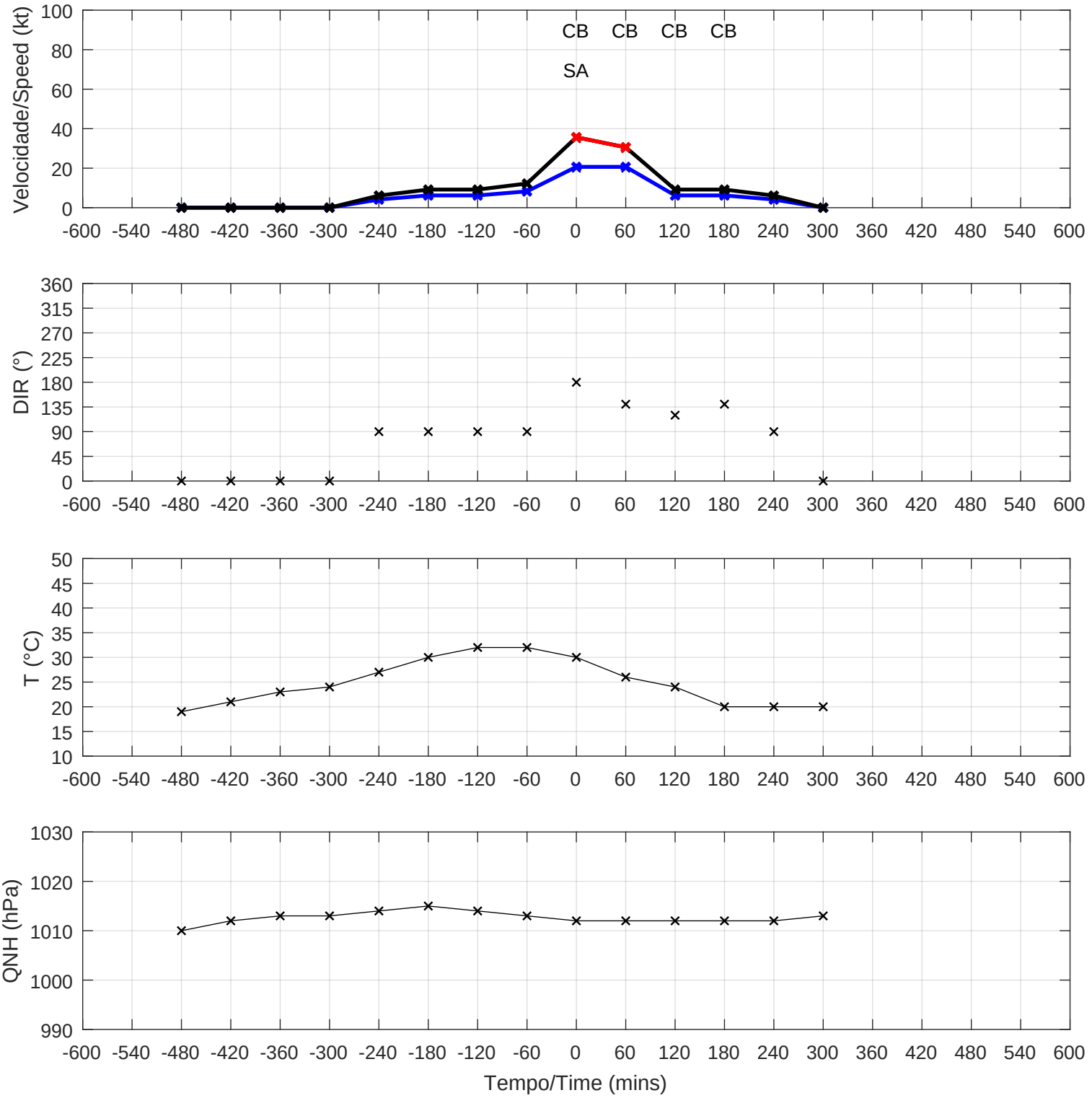
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G_{obs} = 35 kt	R_{-6} = [ ]	$T_{med,3}$ = 24.0 °C	DIR = 130°	SIM/YES	NÃO-SINÓTICO
V_{obs} = 20 kt	R_{-3} = 1.8	$\Delta T_{min,3}$ = -2.0 °C	$\Delta DIR_{max,-3}$ = 0°		NON-SYNOPTIC
G_V = 1.8	R_{+3} = 1.3	$\Delta Q_{max,3}$ = 2.0 hPa	$\Delta DIR_{max,+3}$ = 0°		(110)
G_{cor} = 35.7 kt	R_{+6} = 1.4	Δ Grupo/Group = 2	METAR SLTR 151000Z 13020G35KT 6000 TS SA SCT020 FEW023CB SCT080 BKN230 23/20 Q1009		
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

SLTR/85154 EVENTO/EVENT 32 - 19/09/1999, 18:00 UTC (MSS - WUNDERGROUND)

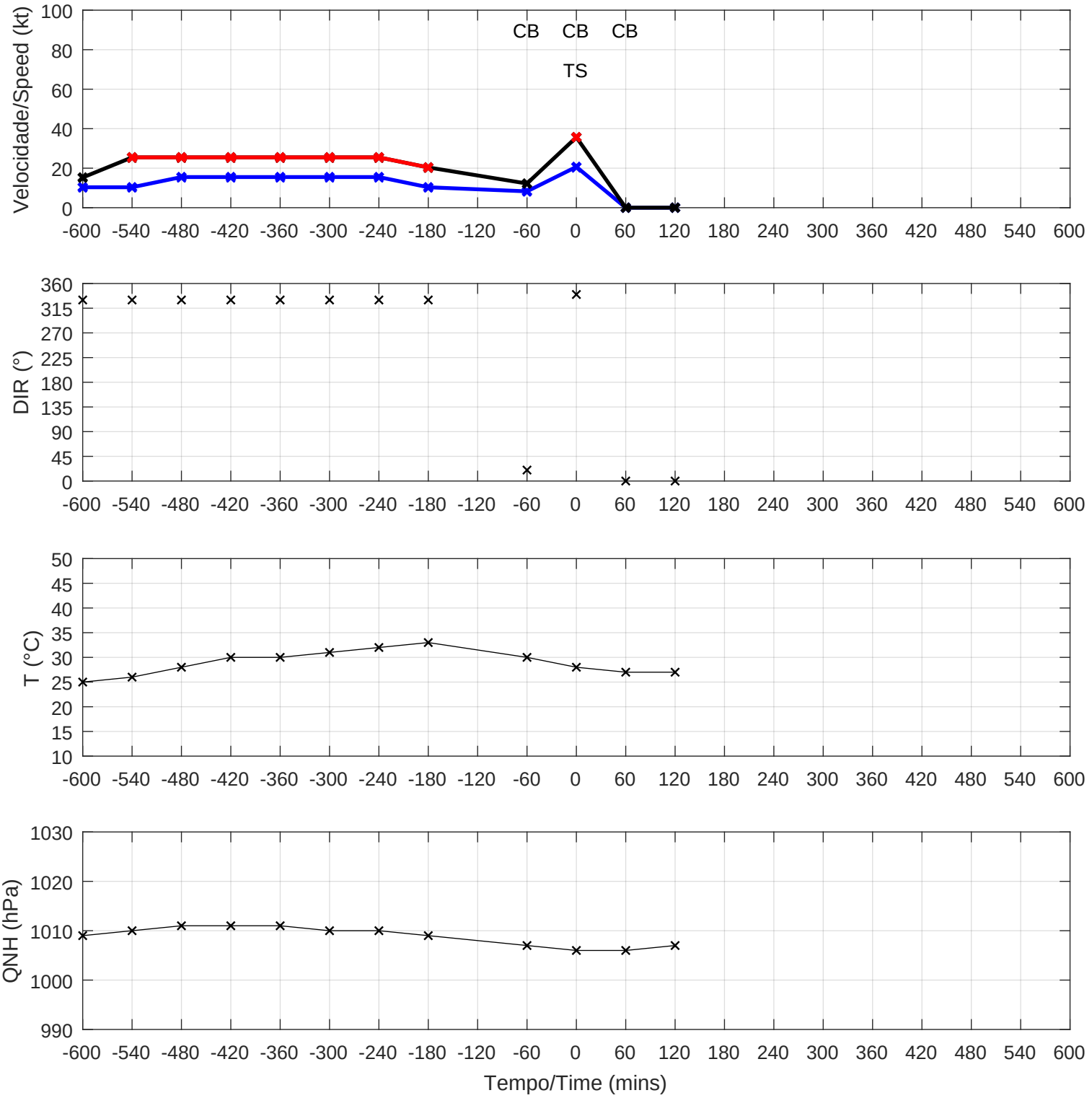
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G_{obs} = 35 kt	R_{-6} = 5.8	$T_{med,3}$ = 31.3 °C	DIR = 180°	NÃO/NO	NÃO-SINÓTICO
V_{obs} = 20 kt	R_{-3} = 3.5	$\Delta T_{min,3}$ = -6.0 °C	$\Delta DIR_{max,-3}$ = 90°		NON-SYNOPTIC
G_V = 1.8	R_{+3} = 2.2	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 60°		(117)
G_{cor} = 35.7 kt	R_{+6} = 3.2	Δ Grupo/Group = 3	METAR SLTR 191800Z 18020G35KT 1000 SA SCT023 FEW027CB BKN090 30/22 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

SLTR/85154 EVENTO/EVENT 33 - 22/01/2000, 21:00 UTC (MSS - WUNDERGROUND)

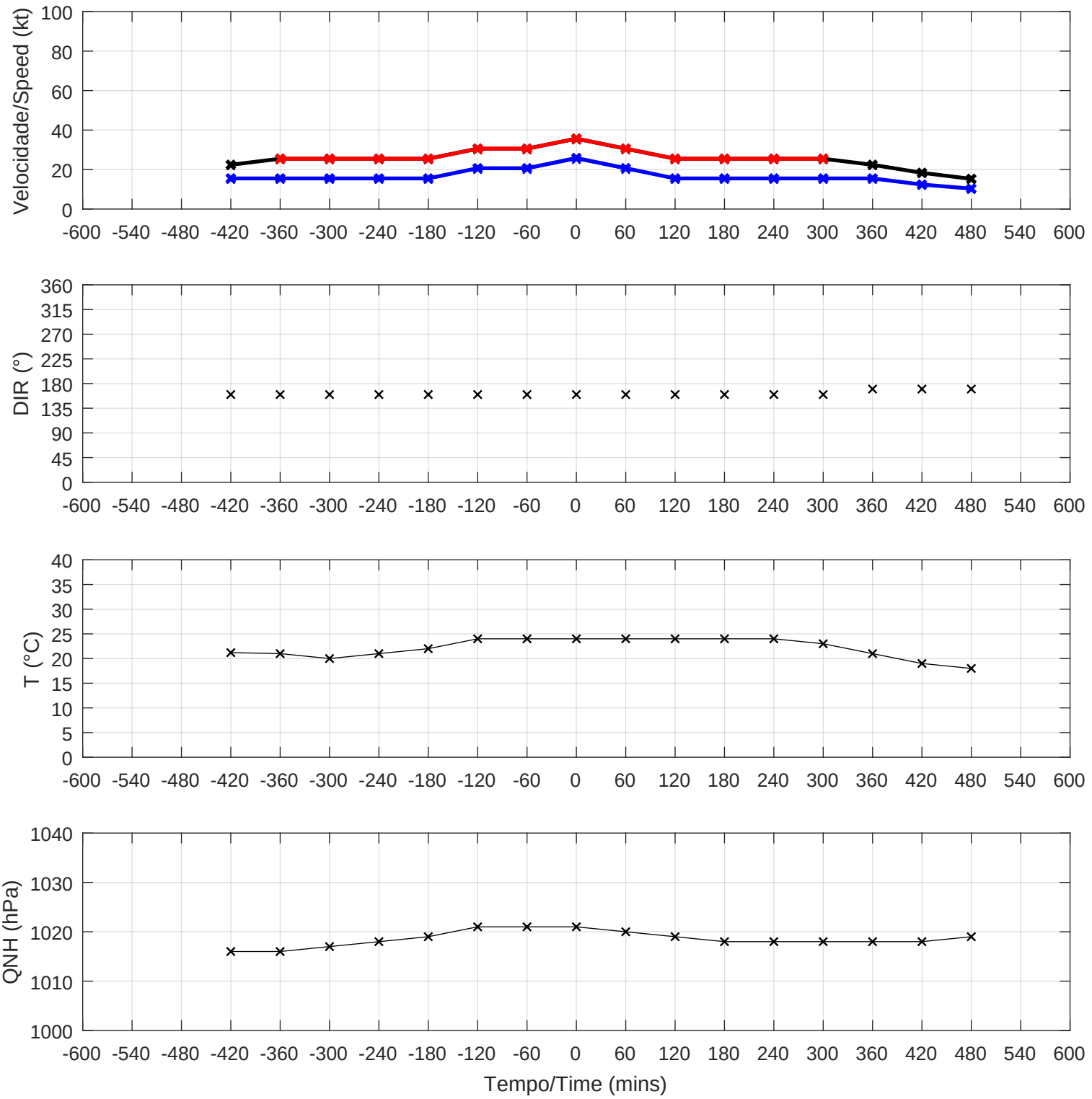
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G_{obs} = 35 kt	R_{-6} = 1.6	$T_{med,3}$ = 31.5 °C	DIR = 340°	SIM/YES	NÃO-SINÓTICO
V_{obs} = 20 kt	R_{-3} = 2.2	$\Delta T_{min,3}$ = -3.0 °C	$\Delta DIR_{max,-3}$ = 40°		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} = [ ]	Δ Grupo/Group = 3	METAR SLTR 222100Z 34020G35KT 1500 TSRA SCT020 FEW023CB 28/25 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

SLTR/85154 EVENTO/EVENT 35 - 04/09/2006, 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} = 35 kt	R_{-6} = 1.3	$T_{med,3}$ = 23.3 °C	DIR = 160°	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 = 1.4	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	SLTR 041600Z 16025G35KT 5000 FU SCT080 24/05 Q1021=		
V_{cor} = 25.9 kt					



Matthew Bruce Vallis (matthewbvallis@gmail.com) Tese de Doutorado/Doctorate Thesis, Porto Alegre: PPGEC/UFRGS, 2019
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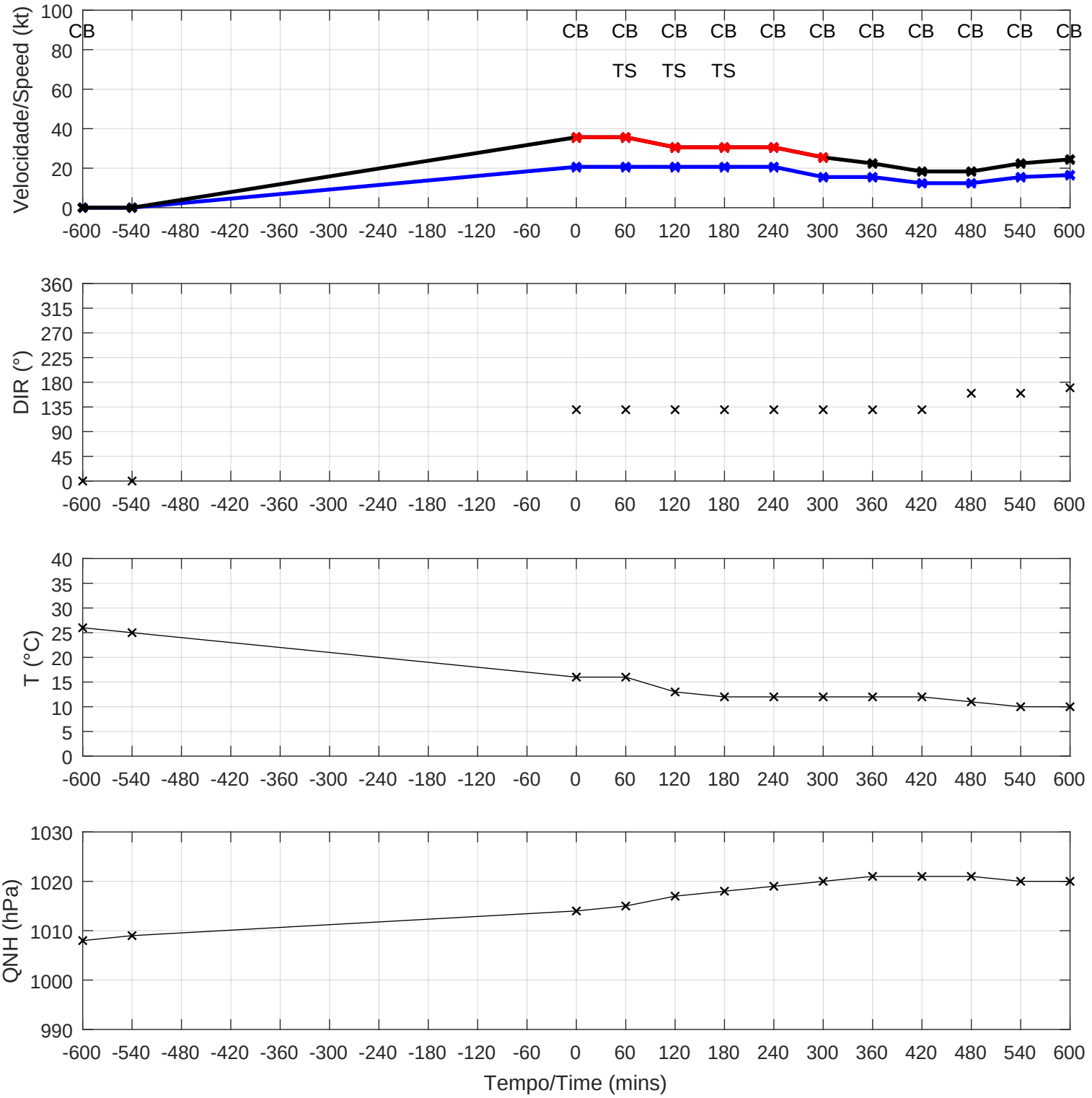
SLTR/85154 EVENTO/EVENT 37 - 25/07/2007, 09:00 UTC (MSS - REDEMET)

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} = [ ]	$T_{med,3}$ = [ ]	DIR = 130°	SIM/YES	SINÓTICO
V_{obs} = 20 kt	R_{-3} = [ ]	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = [ ]		SYNOPTIC
G_V = 1.8	R_{+3} = 1.1	$\Delta Q_{max,3}$ = 1.0 hPa	$\Delta DIR_{max,+3}$ = 0°		(213)
G_{cor} = 35.7 kt	R_{+6} = 1.2	Δ Grupo/Group = 3	SLTR 250900Z 13020G35KT 9999 SCT008 BKN015 FEW023CB OVC070 16/14Q1014=		
V_{cor} = 20.7 kt					



Matthew Bruce Vallis (matthewbvallis@gmail.com) Tese de Doutorado/Doctorate Thesis, Porto Alegre: PPGEC/UFRGS, 2019
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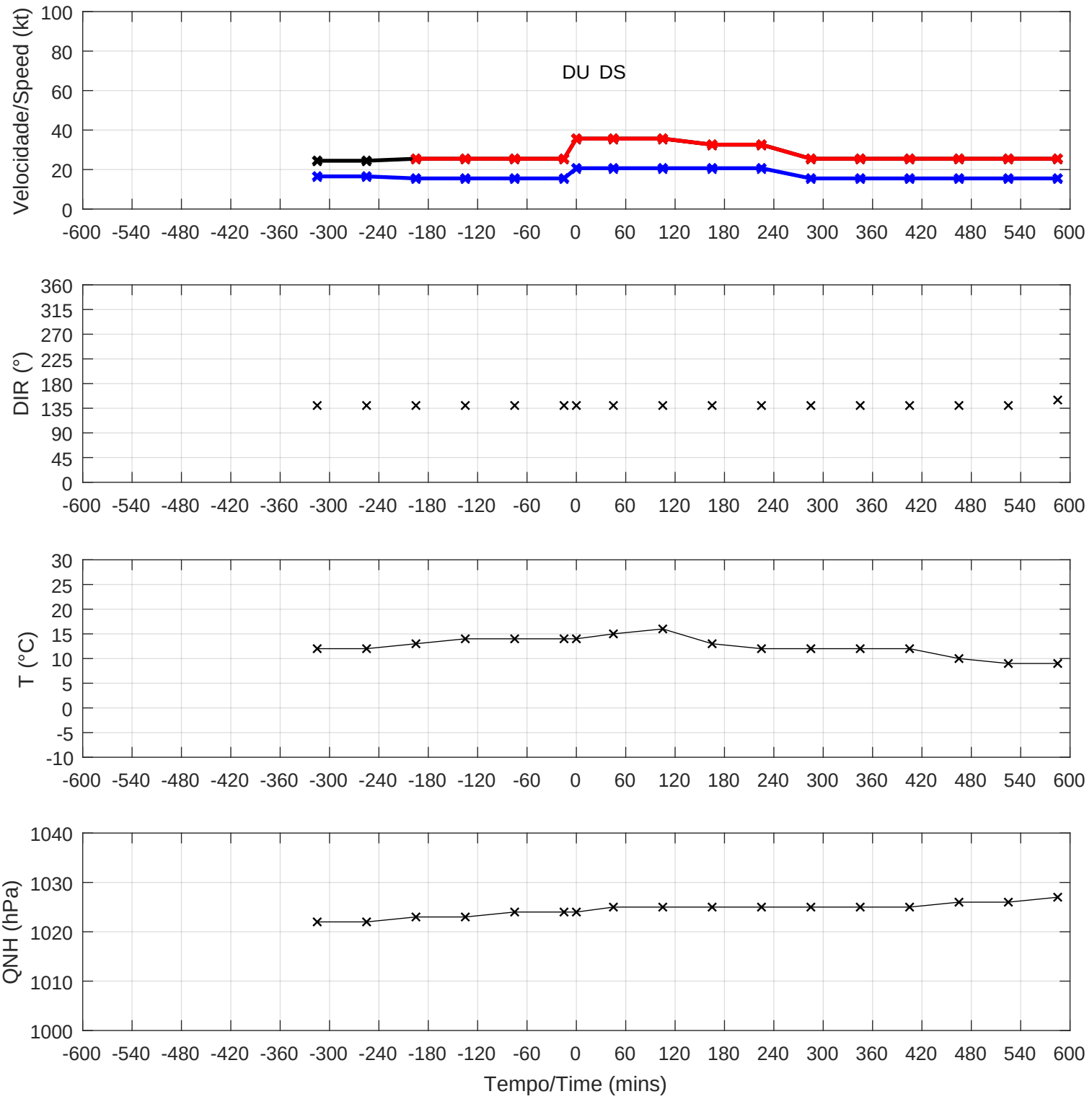
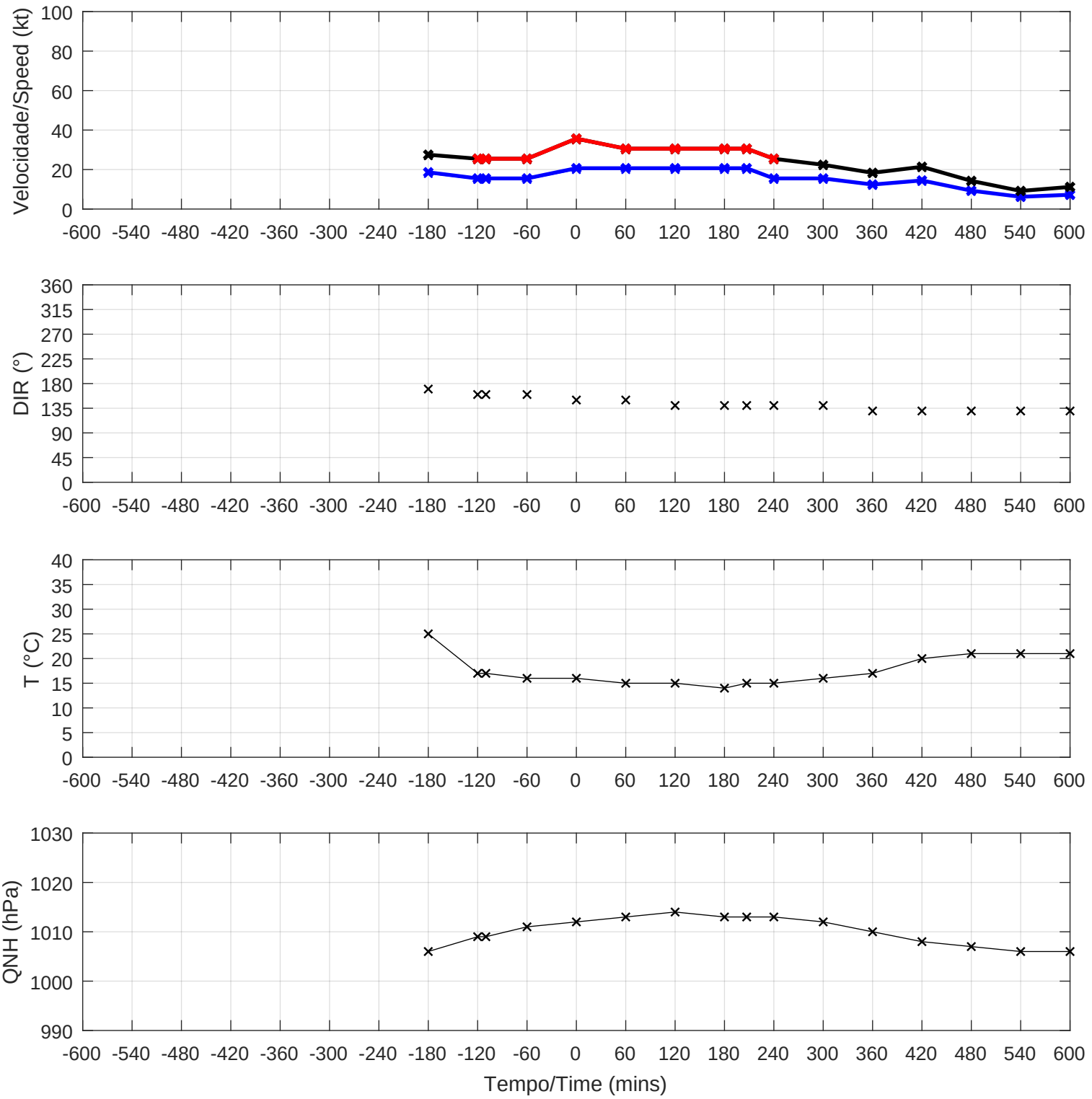
SLTR/85154 EVENTO/EVENT 41 - 16/07/2010, 14:15 UTC (MSS - REDEMET)

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	$T_{med,3}$ = 14.0 °C	DIR = 140°	NÃO/NO	SINÓTICO
V_{obs} = 20 kt	R_{-3} = 1.4	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = 0°		SYNOPTIC
G_V = 1.8	R_{+3} = 1.0	$\Delta Q_{max,3}$ = 1.0 hPa	$\Delta DIR_{max,+3}$ = 0°		(215)
G_{cor} = 35.7 kt	R_{+6} = 1.1	Δ Grupo/Group = 3	SLTR 161415Z 14020G35KT 5000 DU OVC070 14/05 Q1024=		
V_{cor} = 20.7 kt					



SLTR/85154 EVENTO/EVENT 42 - 13/12/2010, 12:00 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} = [ ]	$T_{med,3}$ = 19.3 °C	DIR = 150°	NÃO/NO	SINÓTICO
V_{obs} = 20 kt	R_{-3} = 1.4	$\Delta T_{min,3}$ = -2.0 °C	$\Delta DIR_{max,-3}$ = 20°		SYNOPTIC
G_V = 1.8	R_{+3} = 1.2	$\Delta Q_{max,3}$ = 4.0 hPa	$\Delta DIR_{max,+3}$ = 10°		(212)
G_{cor} = 35.7 kt	R_{+6} = 1.4	Δ Grupo/Group = 1	SLTR 131200Z 15020G35KT 5000 -RA FEW007 BKN015 OVC070 16/15Q1012=		
V_{cor} = 20.7 kt					



Matthew Bruce Vallis (matthewbvallis@gmail.com) Tese de Doutorado/Doctorate Thesis, Porto Alegre: PPGEC/UFRGS, 2019
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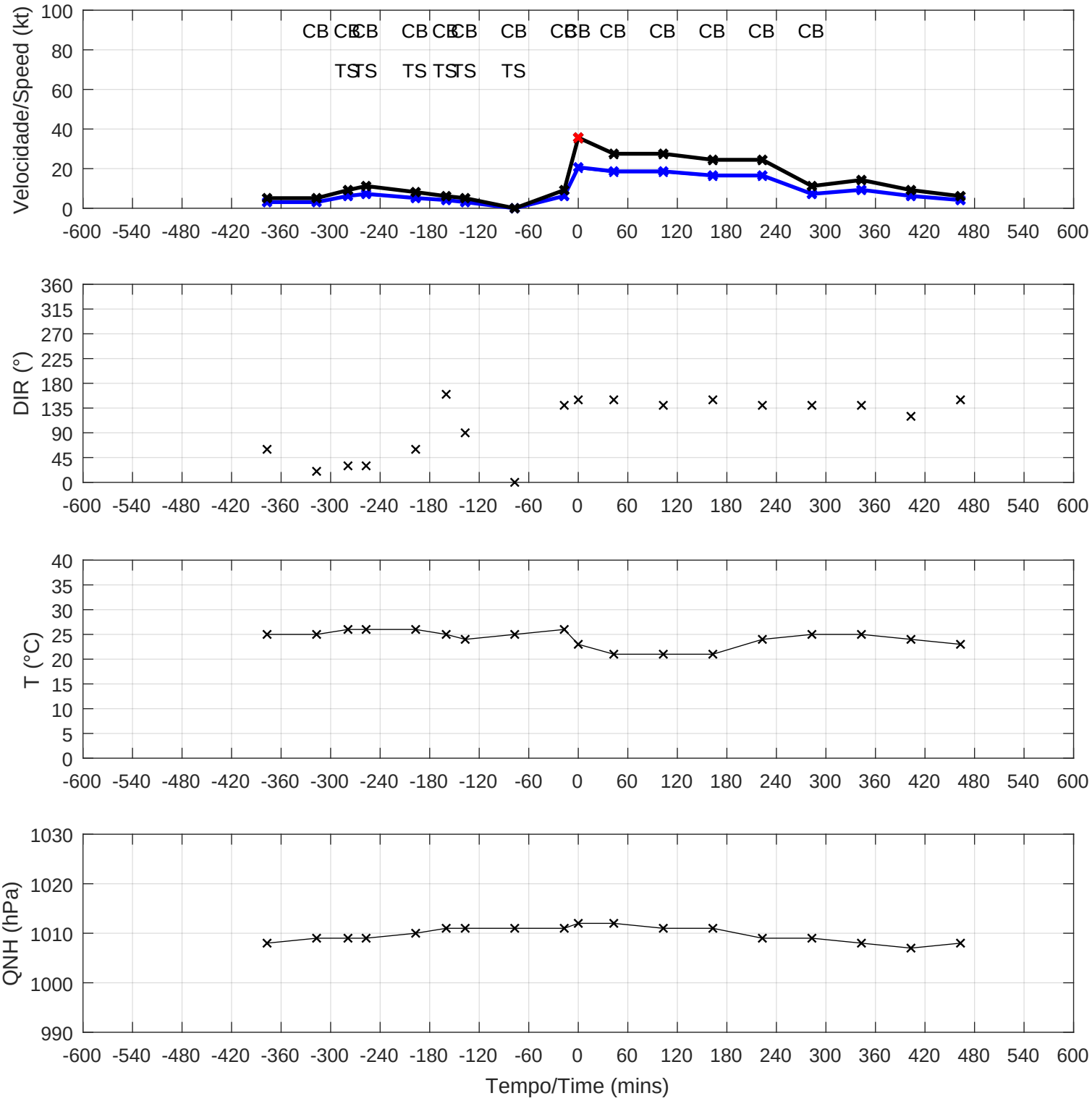
SLTR/85154 EVENTO/EVENT 44 - 16/11/2013, 15:17 UTC (MSS - REDEMET)

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} = 5.7	$T_{med,3}$ = 24.6 °C	DIR = 150°	NÃO/NO	SINÓTICO
V_{obs} = 20 kt	R_{-3} = 9.5	$\Delta T_{min,3}$ = -5.0 °C	$\Delta DIR_{max,-3}$ = 60°		SYNOPTIC
G_V = 1.8	R_{+3} = 1.3	$\Delta Q_{max,3}$ = 1.0 hPa	$\Delta DIR_{max,+3}$ = 10°		(211)
G_{cor} = 35.7 kt	R_{+6} = 1.7	Δ Grupo/Group = 2	SPECI SLTR 161517Z 15020G35KT 8000 -RA BKN004 FEW020CB OVC070 23/22Q1012=		
V_{cor} = 20.7 kt					



Matthew Bruce Vallis (matthewbvallis@gmail.com) Tese de Doutorado/Doctorate Thesis, Porto Alegre: PPGEC/UFRGS, 2019
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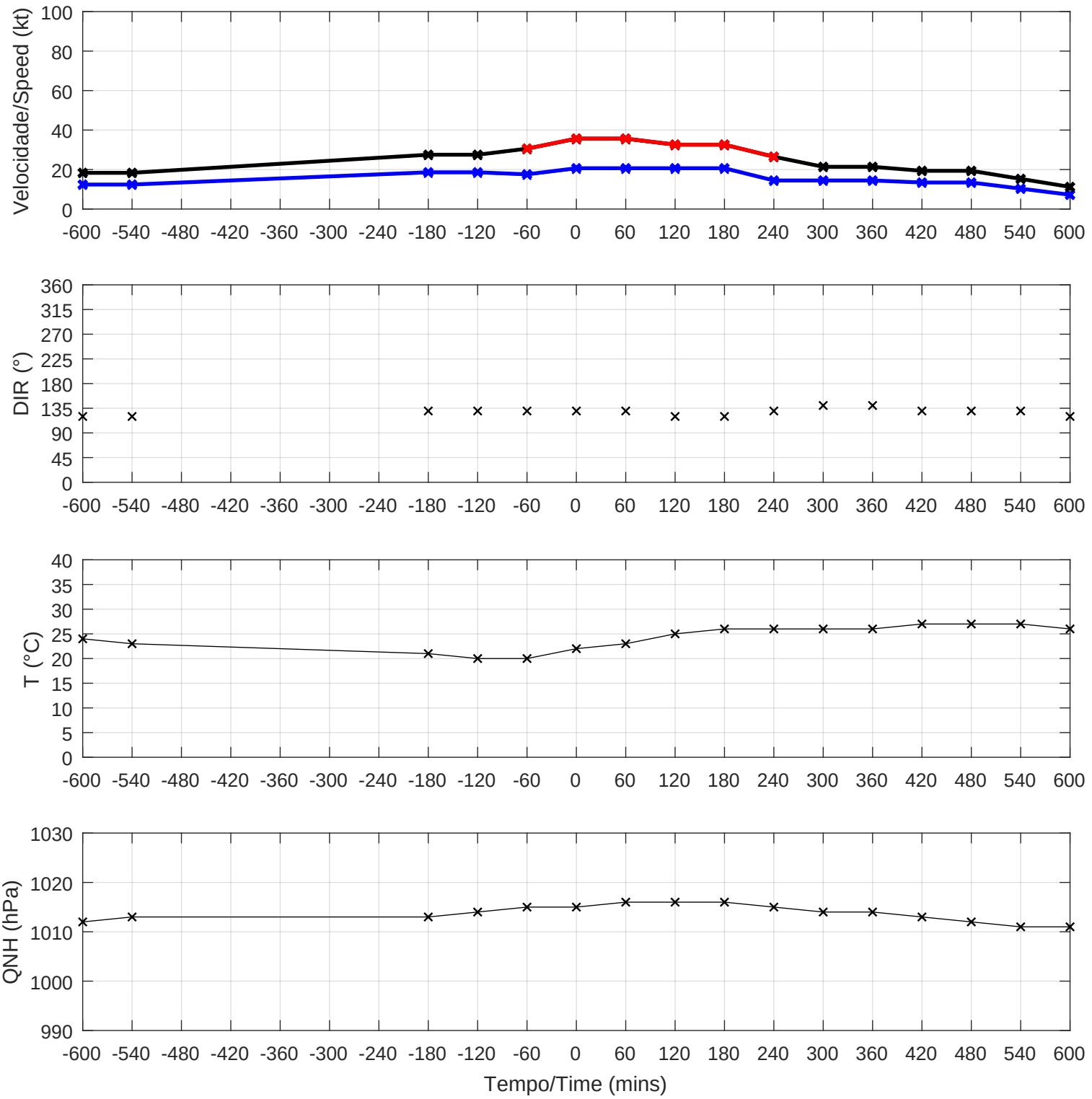
SLTR/85154 EVENTO/EVENT 47 - 18/11/2016, 12:00 UTC (MSS - REDEMET)

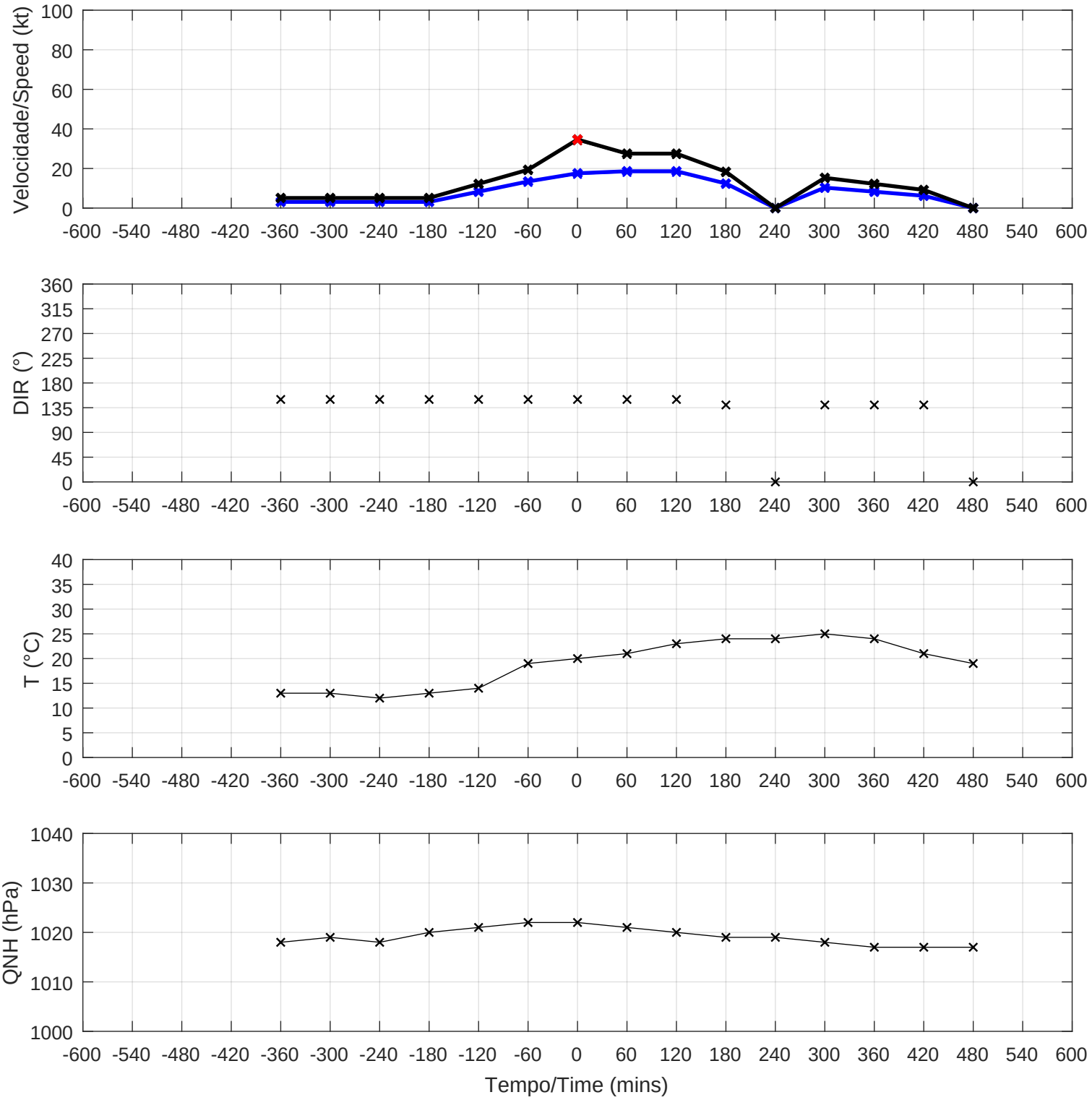
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G_{obs} = 35 kt	R_{-6} = [ ]	$T_{med,3}$ = 20.3 °C	DIR = 130°	NÃO/NO	SINÓTICO
V_{obs} = 20 kt	R_{-3} = 1.3	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = 0°		SYNOPTIC
G_V = 1.8	R_{+3} = 1.1	$\Delta Q_{max,3}$ = 2.0 hPa	$\Delta DIR_{max,+3}$ = 10°		(215)
G_{cor} = 35.7 kt	R_{+6} = 1.3	Δ Grupo/Group = 3	METAR SLTR 181200Z 13020G35KT 9999 NSC 22/14 Q1015=		
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

SLTR/85154 EVENTO/EVENT 48 - 18/05/1998, 15:00 UTC (MSS - WUNDERGROUND)

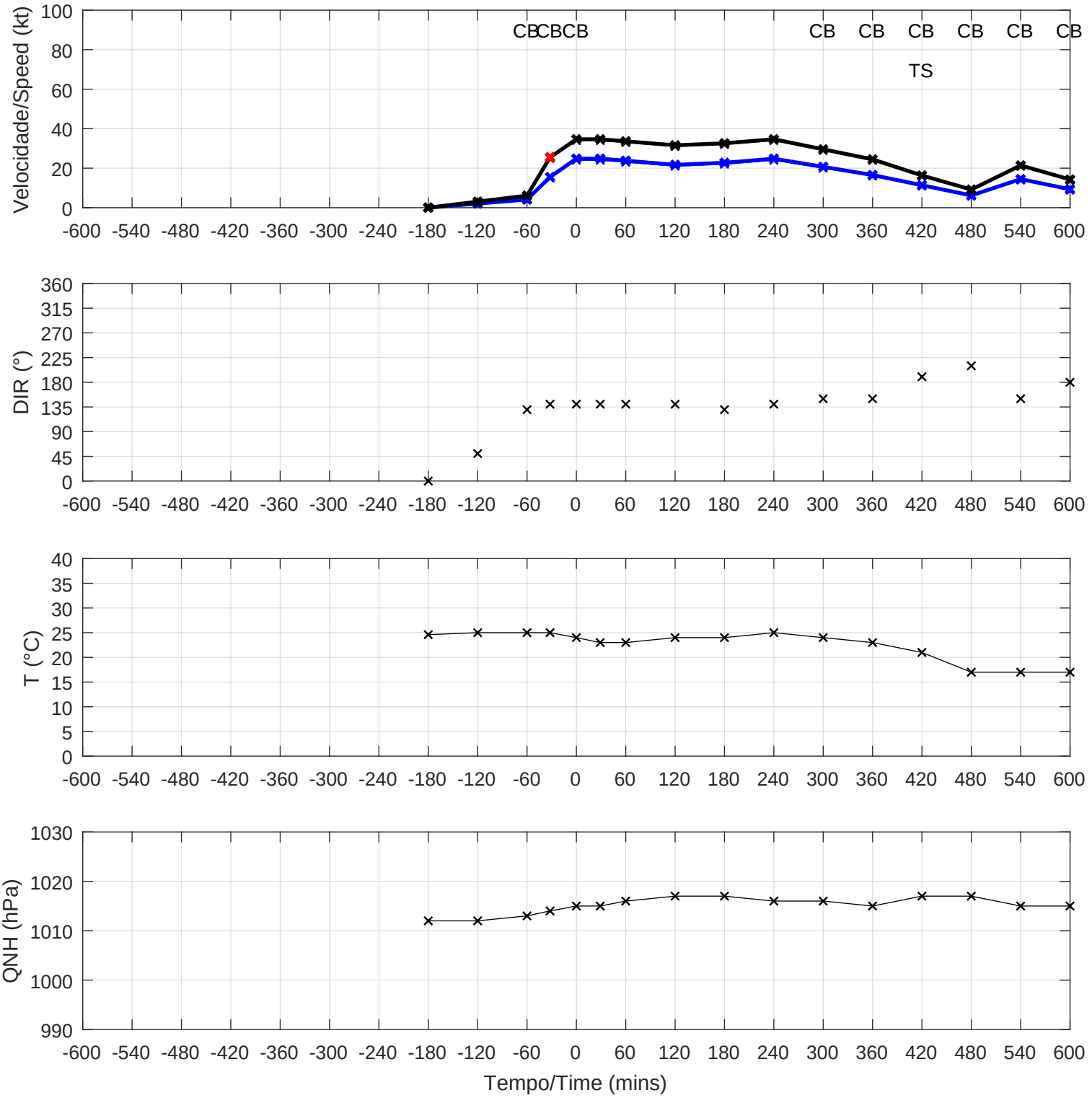
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G_{obs} = 34 kt	R_{-6} = 4.0	$T_{med,3}$ = 15.3 °C	DIR = 150°	NÃO/NO	SINÓTICO
V_{obs} = 17 kt	R_{-3} = 2.8	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = 0°		SYNOPTIC
G_V = 2.0	R_{+3} = 1.4	$\Delta Q_{max,3}$ = 1.0 hPa	$\Delta DIR_{max,+3}$ = 10°		(214)
G_{cor} = 34.7 kt	R_{+6} = 2.1	Δ Grupo/Group = 3	METAR SLTR 181500Z 15017G34KT 9999 SKC 20/12 Q1022		
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

SLTR/85154 EVENTO/EVENT 49 - 20/09/2008, 12:00 UTC (MSS - REDEMET)

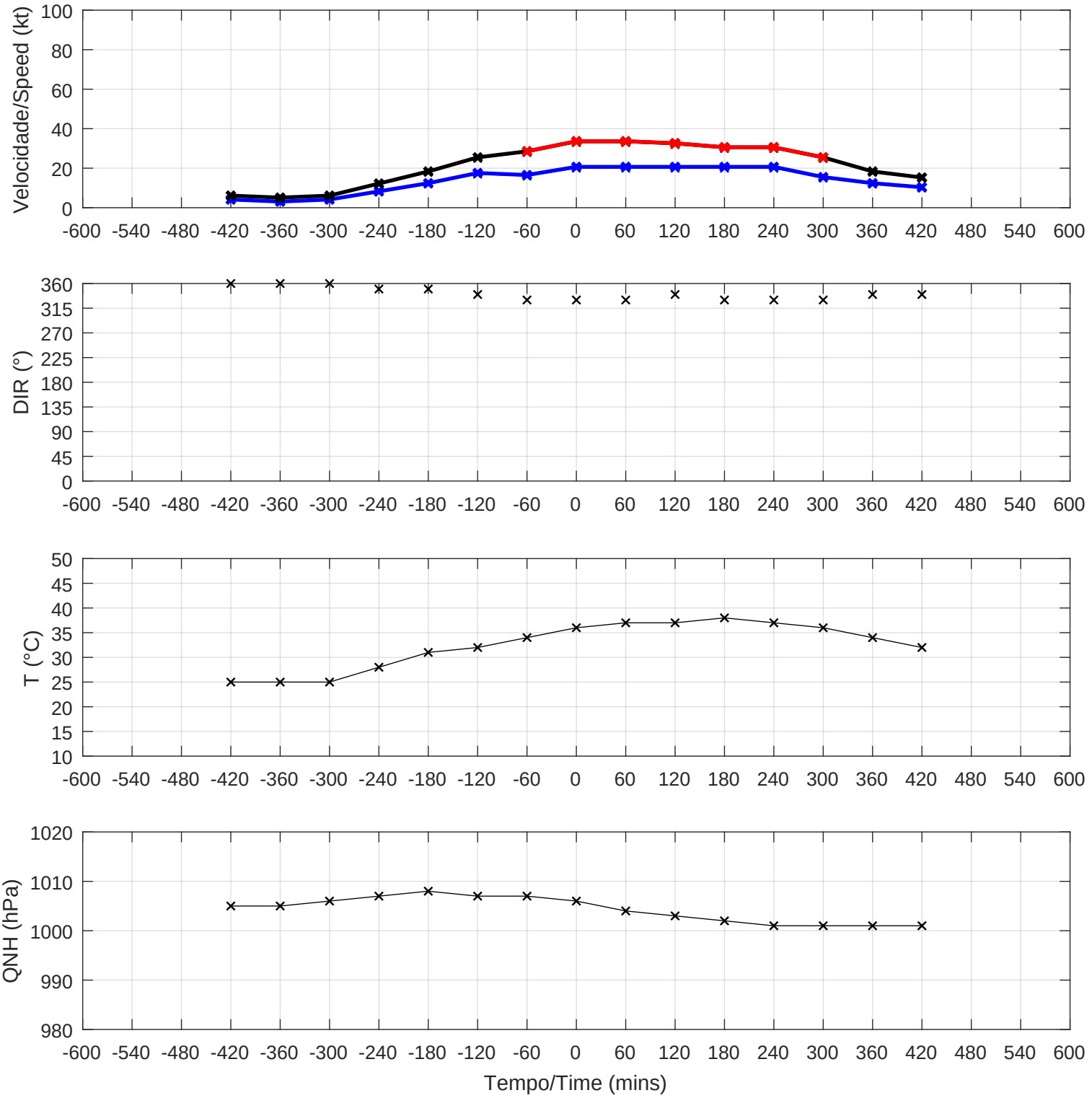
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G* = 34 kt	R_{-6} = [ ]	$T_{med,3}$ = 24.8 °C	DIR = 140°	NÃO/NO	SINÓTICO
V_{obs} = 24 kt	R_{-3} = 5.3	$\Delta T_{min,3}$ = -2.0 °C	$\Delta DIR_{max,-3}$ = 90°		SYNOPTIC
G_V = [ ]	R_{+3} = 1.1	$\Delta Q_{max,3}$ = 4.0 hPa	$\Delta DIR_{max,+3}$ = 10°		(221)
G_{cor} = 34.7 kt	R_{+6} = 1.1	Δ Grupo/Group = 1	SLTR 201200Z 14024KT 1000 FU FEW020 FEW023CB BKN080 24/16 Q1015=		
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

SLTR/85154 EVENTO/EVENT 53 - 27/09/2010, 16:00 UTC (MSS - REDEMET)

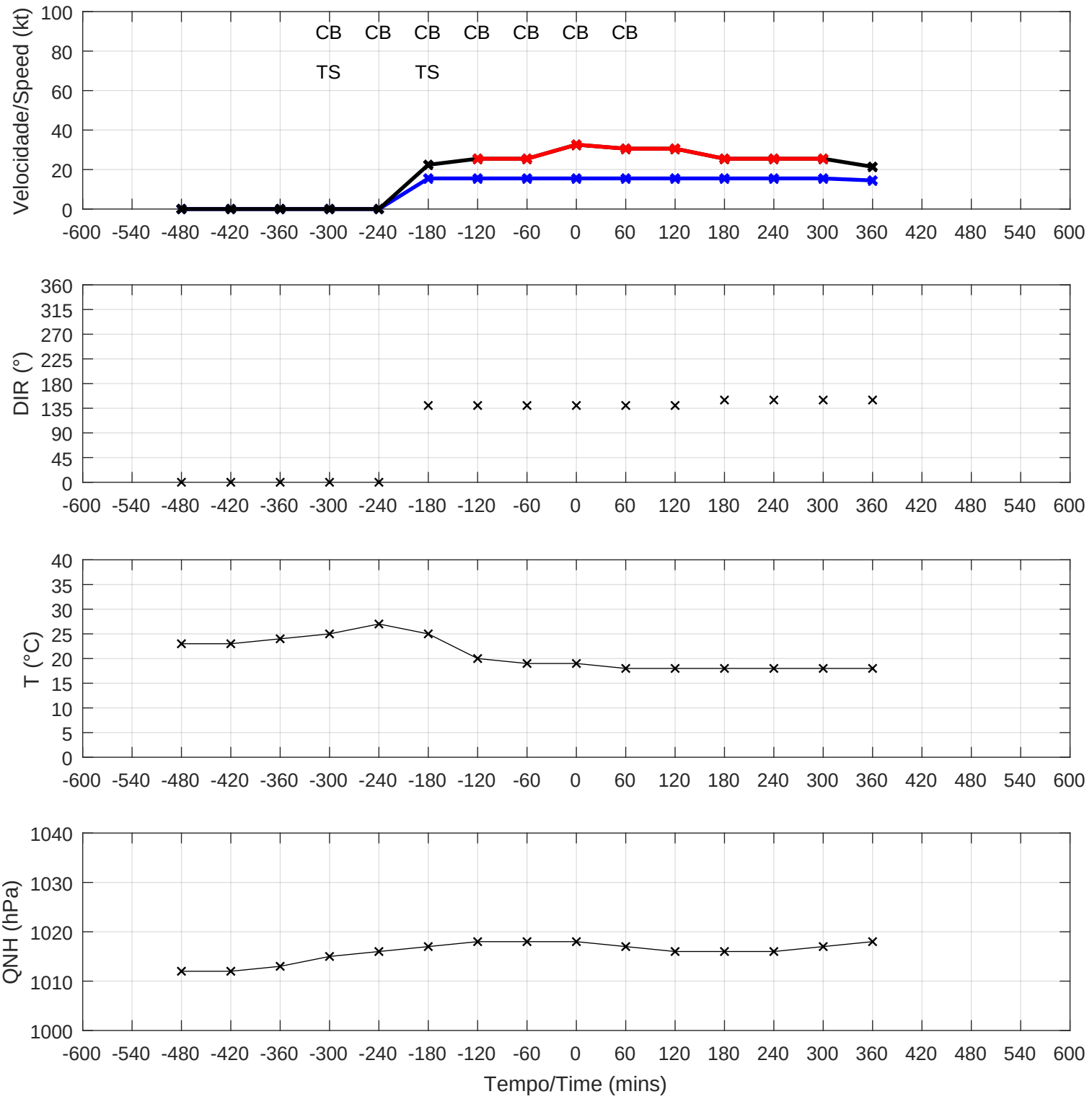
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G_{obs} = 33 kt	R_{-6} = 2.1	$T_{med,3}$ = 32.3 °C	DIR = 330°	NÃO/NO	SINÓTICO
V_{obs} = 20 kt	R_{-3} = 1.4	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = 20°		SYNOPTIC
G_V = 1.6	R_{+3} = 1.0	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 10°		(215)
G_{cor} = 33.6 kt	R_{+6} = 1.2	Δ Grupo/Group = 3	SLTR 271600Z 33020G33KT 7000 FEW023 36/22 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

SLTR/85154 EVENTO/EVENT 56 - 11/06/1998, 17:00 UTC (MSS - WUNDERGROUND)

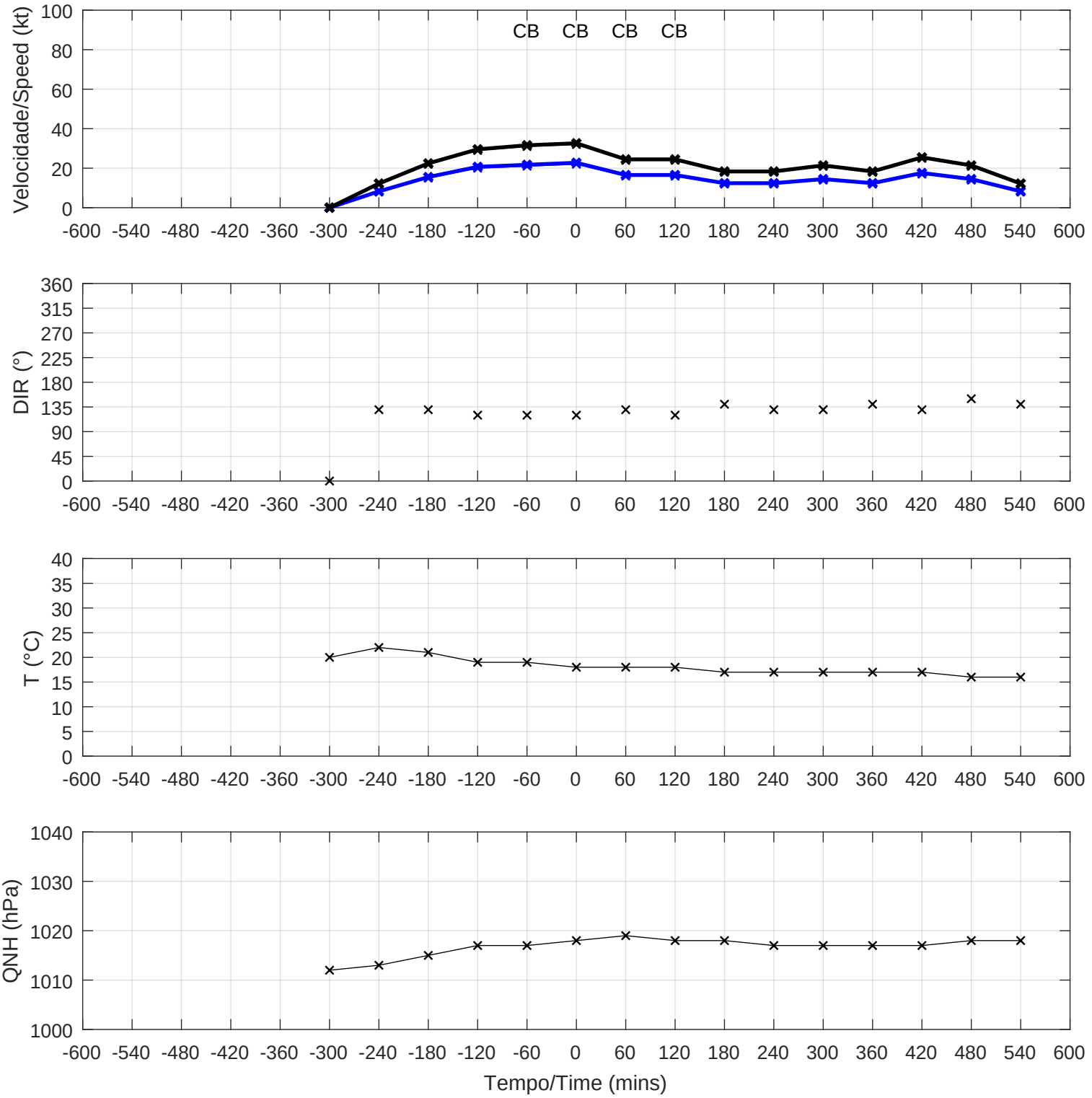
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G_{obs} = 32 kt	R_{-6} = 2.7	$T_{med,3}$ = 21.3 °C	DIR = 140°	NÃO/NO	SINÓTICO
V_{obs} = 15 kt	R_{-3} = 1.3	$\Delta T_{min,3}$ = -2.0 °C	$\Delta DIR_{max,-3}$ = 0°		SYNOPTIC
G_V = 2.1	R_{+3} = 1.1	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 10°		(215)
G_{cor} = 32.6 kt	R_{+6} = 1.2	Δ Grupo/Group = 3	METAR SLTR 111700Z 14015G32KT 1000 RA BKN005 BKN017 FEW023CB OVC070 19/18 Q1018		
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

SLTR/85154 EVENTO/EVENT 58 - 11/07/2009, 15:00 UTC (MSS - REDEMET)

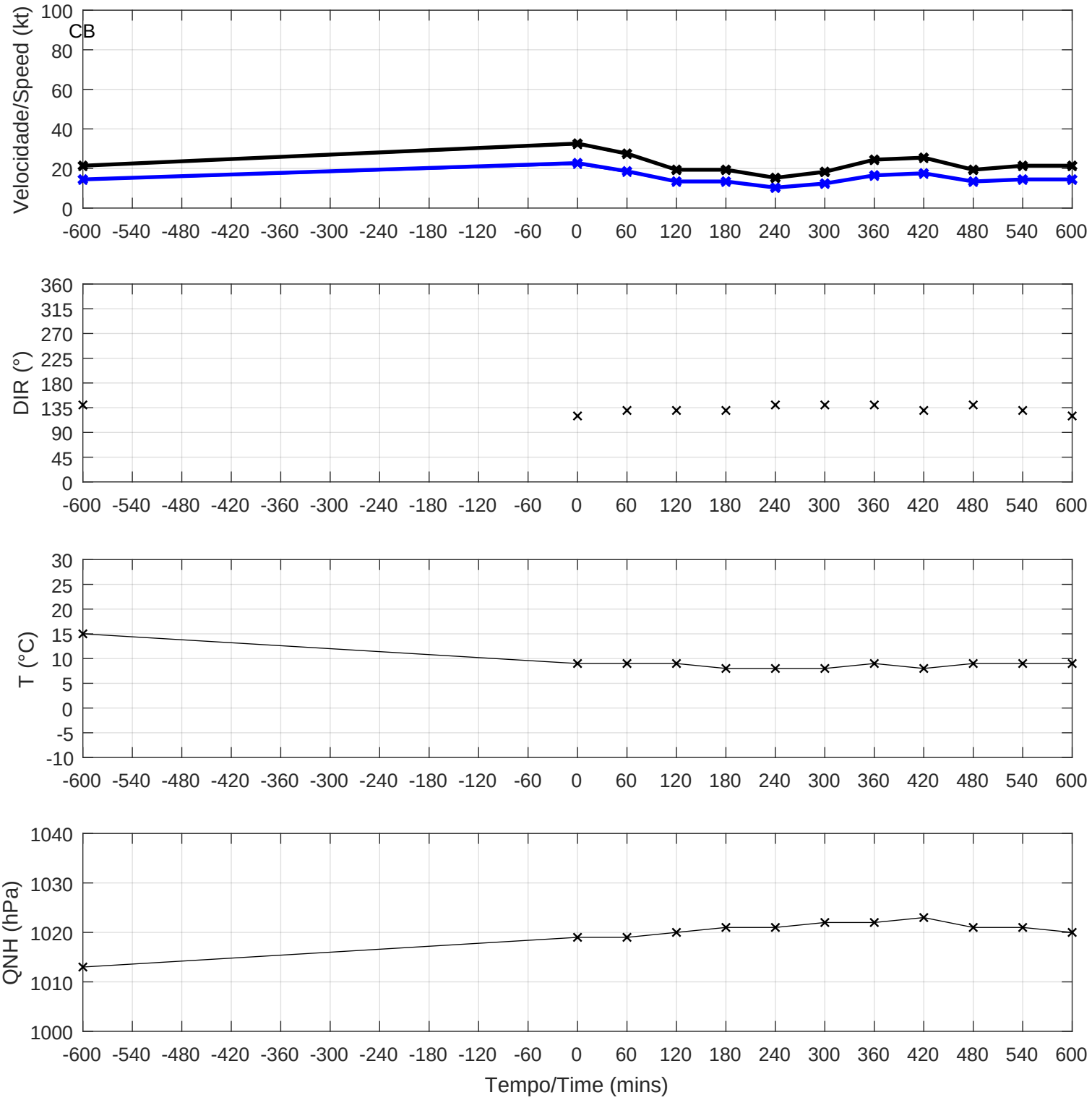
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G* = 32 kt	R_{-6} = 1.7	$T_{med,3}$ = 19.7 °C	DIR = 120°	NÃO/NO	SINÓTICO
V_{obs} = 22 kt	R_{-3} = 1.2	$\Delta T_{min,3}$ = -1.0 °C	$\Delta DIR_{max,-3}$ = 10°		SYNOPTIC
G_V = [ ]	R_{+3} = 1.5	$\Delta Q_{max,3}$ = 2.0 hPa	$\Delta DIR_{max,+3}$ = 20°		(222)
G_{cor} = 32.6 kt	R_{+6} = 1.6	Δ Grupo/Group = 2	SLTR 111500Z 12022KT 9999 SCT005 BKN015 FEW020CB OVC070 18/15Q1018=		
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

SLTR/85154 EVENTO/EVENT 59 - 24/07/2009, 09:00 UTC (MSS - NCEI/NCDC)

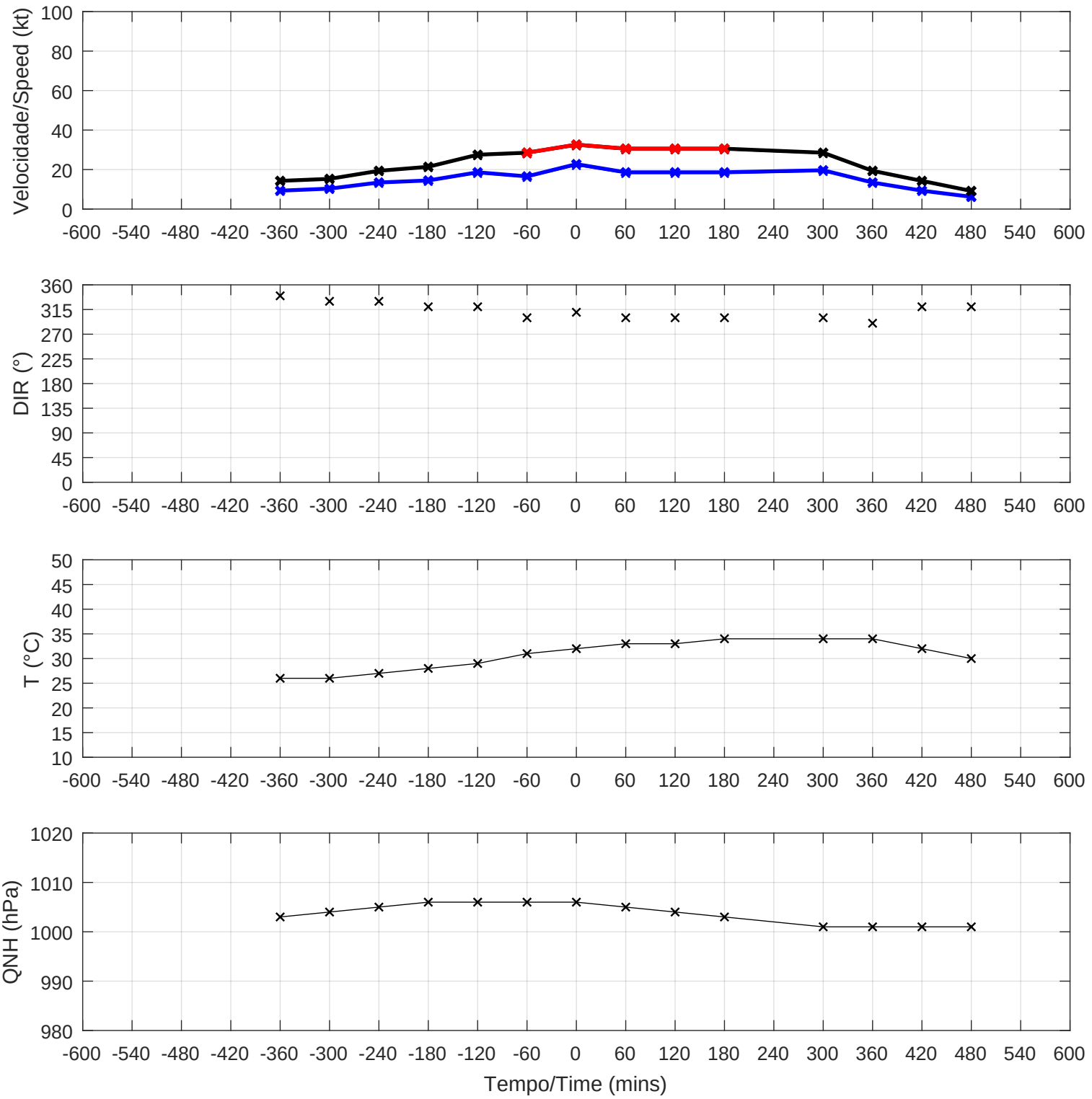
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G* = 32 kt	R_{-6} = [ ]	$T_{med,3}$ = [ ]	DIR = 120°	NÃO/NO	SINÓTICO
V_{obs} = 22 kt	R_{-3} = [ ]	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = [ ]		SYNOPTIC
G_V = [ ]	R_{+3} = 1.5	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 10°		(226)
G_{cor} = 32.6 kt	R_{+6} = 1.6	Δ Grupo/Group = 3	AAXX 24094 85154 42270 81222 10090 20071 39999 40185 52010 8672/ 333 56339 58069 86705 88457 91032=		
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

SLTR/85154 EVENTO/EVENT 61 - 09/11/2012, 15:00 UTC (MSS - REDEMET)

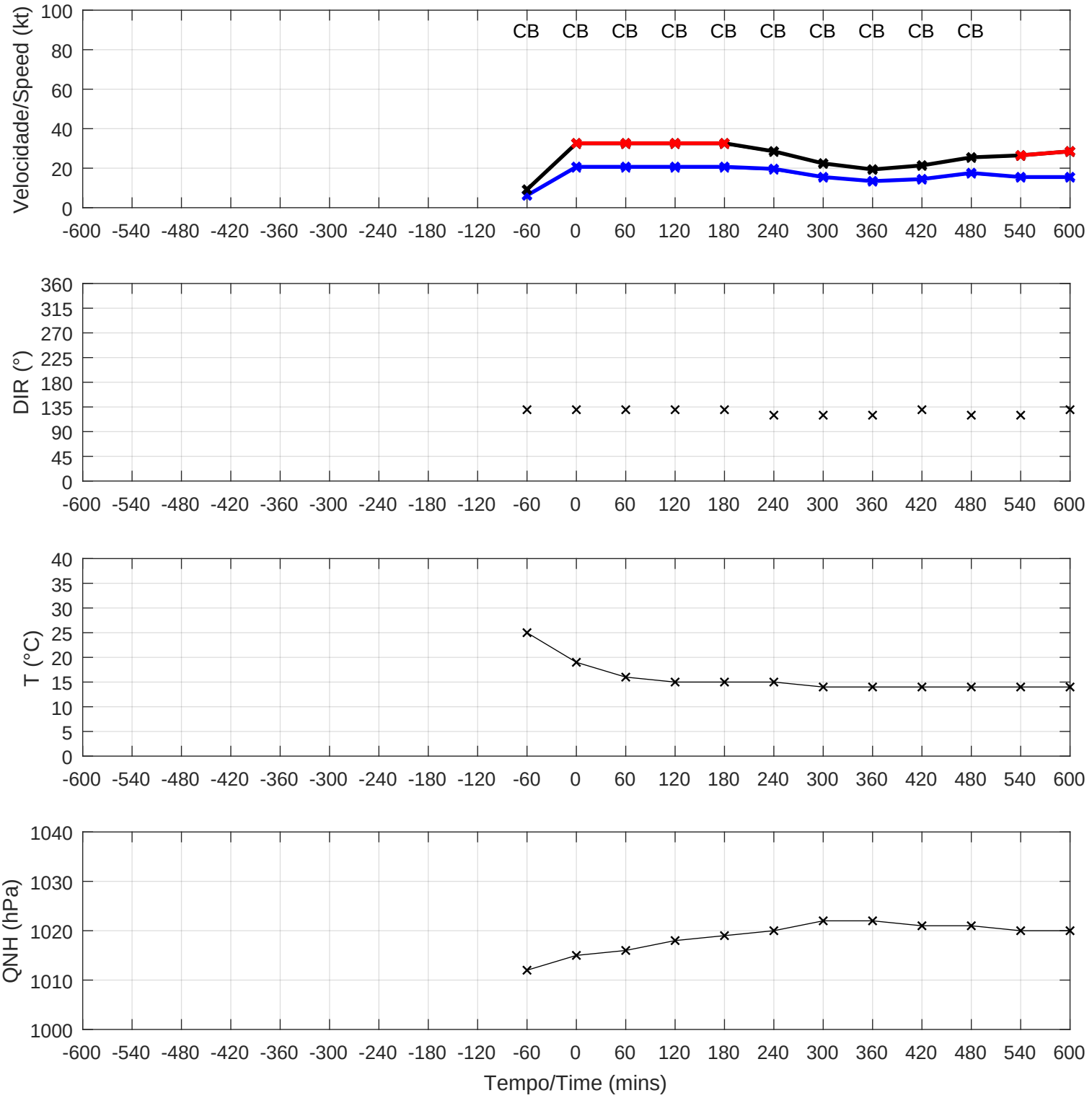
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G_{obs} = 32 kt	R_{-6} = 1.5	$T_{med,3}$ = 29.3 °C	DIR = 310°	NÃO/NO	SINÓTICO
V_{obs} = 22 kt	R_{-3} = 1.3	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = 10°		SYNOPTIC
G_V = 1.5	R_{+3} = 1.1	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 10°		(215)
G_{cor} = 32.6 kt	R_{+6} = 1.2	Δ Grupo/Group = 3	METAR SLTR 091500Z 31022G32KT 9999 FEW020 32/24 Q1006=		
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

SLTR/85154 EVENTO/EVENT 64 - 09/06/2017, 10:00 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} = [ ]	$T_{med,3}$ = 25.0 °C	DIR = 130°	NÃO/NO	SINÓTICO
V_{obs} = 20 kt	R_{-3} = 3.6	$\Delta T_{min,3}$ = -9.0 °C	$\Delta DIR_{max,-3}$ = 0°		SYNOPTIC
G_V = 1.6	R_{+3} = 1.0	$\Delta Q_{max,3}$ = 4.0 hPa	$\Delta DIR_{max,+3}$ = 0°		(211)
G_{cor} = 32.6 kt	R_{+6} = 1.2	Δ Grupo/Group = 1	METAR SLTR 091000Z 13020G32KT 7000 -RA BKN005 FEW020CB OVC070 19/18 Q1015=		
V_{cor} = 20.7 kt					



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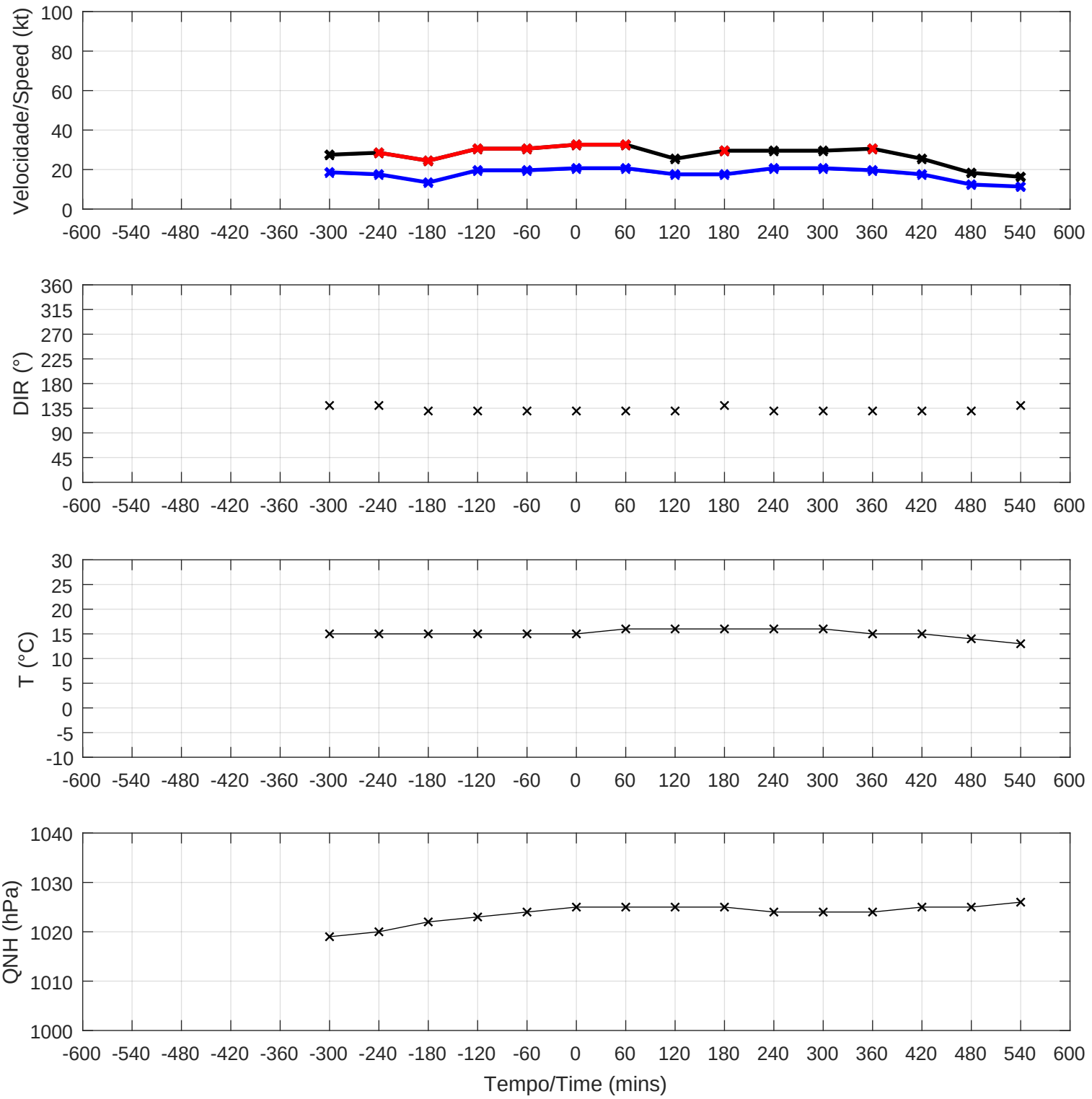
Modelo Climático para Ventos Extremos no Brasil/Brazilian Extreme Wind Climate

SLTR/85154 EVENTO/EVENT 65 - 17/07/2017, 14:00 UTC (MSS - REDEMET)

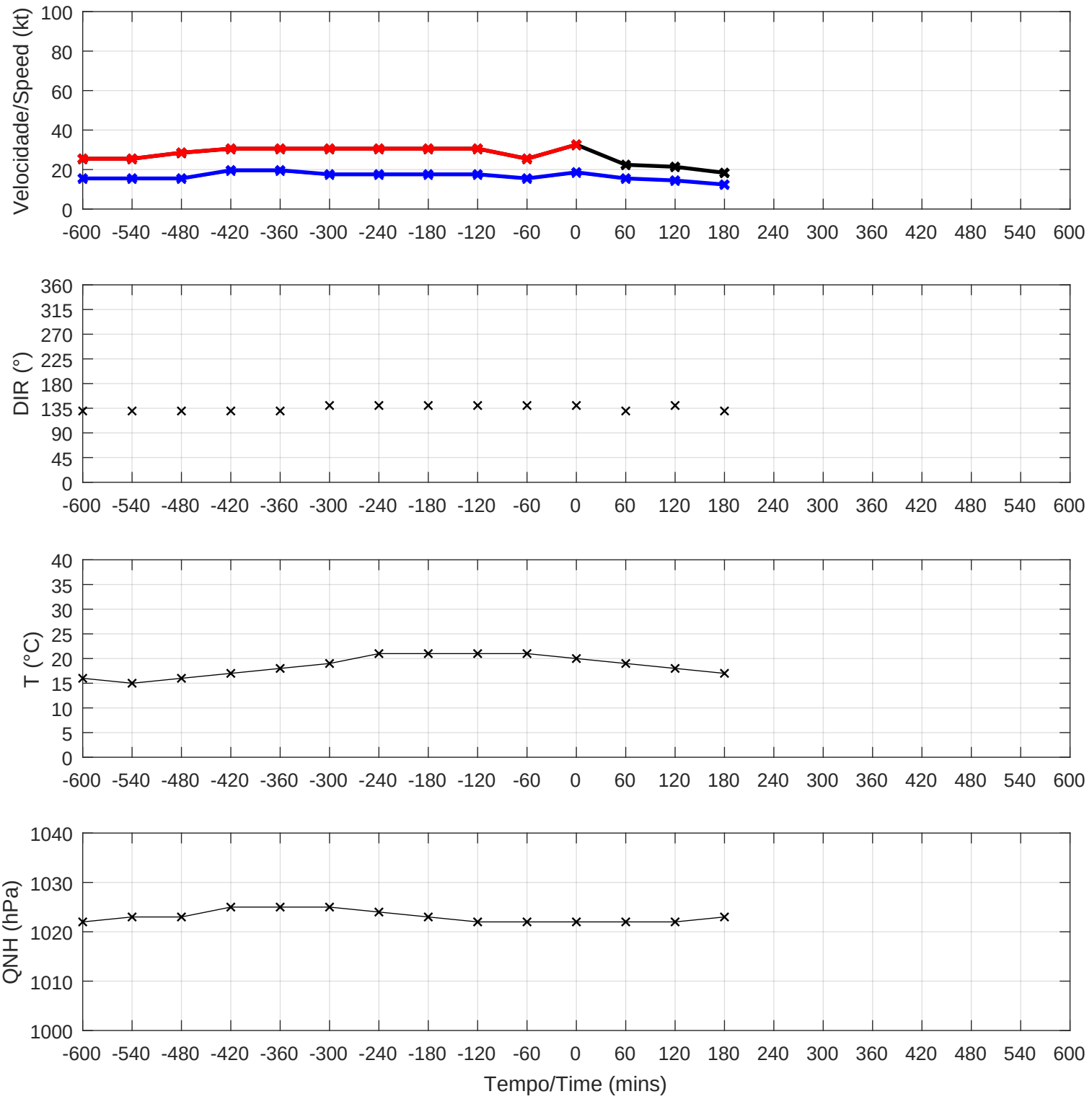
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G_{obs} = 32 kt	R_{-6} = 1.2	$T_{med,3}$ = 15.0 °C	DIR = 130°	NÃO/NO	SINÓTICO
V_{obs} = 20 kt	R_{-3} = 1.1	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = 0°		SYNOPTIC
G_V = 1.6	R_{+3} = 1.1	$\Delta Q_{max,3}$ = 2.0 hPa	$\Delta DIR_{max,+3}$ = 10°		(215)
G_{cor} = 32.6 kt	R_{+6} = 1.1	Δ Grupo/Group = 3	METAR SLTR 171400Z 13020G32KT 9999 BKN030 15/02 Q1025=		
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

SLTR/85154 EVENTO/EVENT 67 - 09/07/2018, 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} = 32 kt	R_{-6} = 1.1	$T_{med,3}$ = 21.0 °C	DIR = 140°	NÃO/NO	SINÓTICO
V_{obs} = 18 kt	R_{-3} = 1.1	$\Delta T_{min,3}$ = -2.0 °C	$\Delta DIR_{max,-3}$ = 0°		SYNOPTIC
G_V = 1.8	R_{+3} = 1.6	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 10°		(215)
G_{cor} = 32.6 kt	R_{+6} = [ ]	Δ Grupo/Group = 3	METAR SLTR 092000Z 14018G32KT 7000 FEW080 20/06 Q1022=		
V_{cor} = 18.6 kt					



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