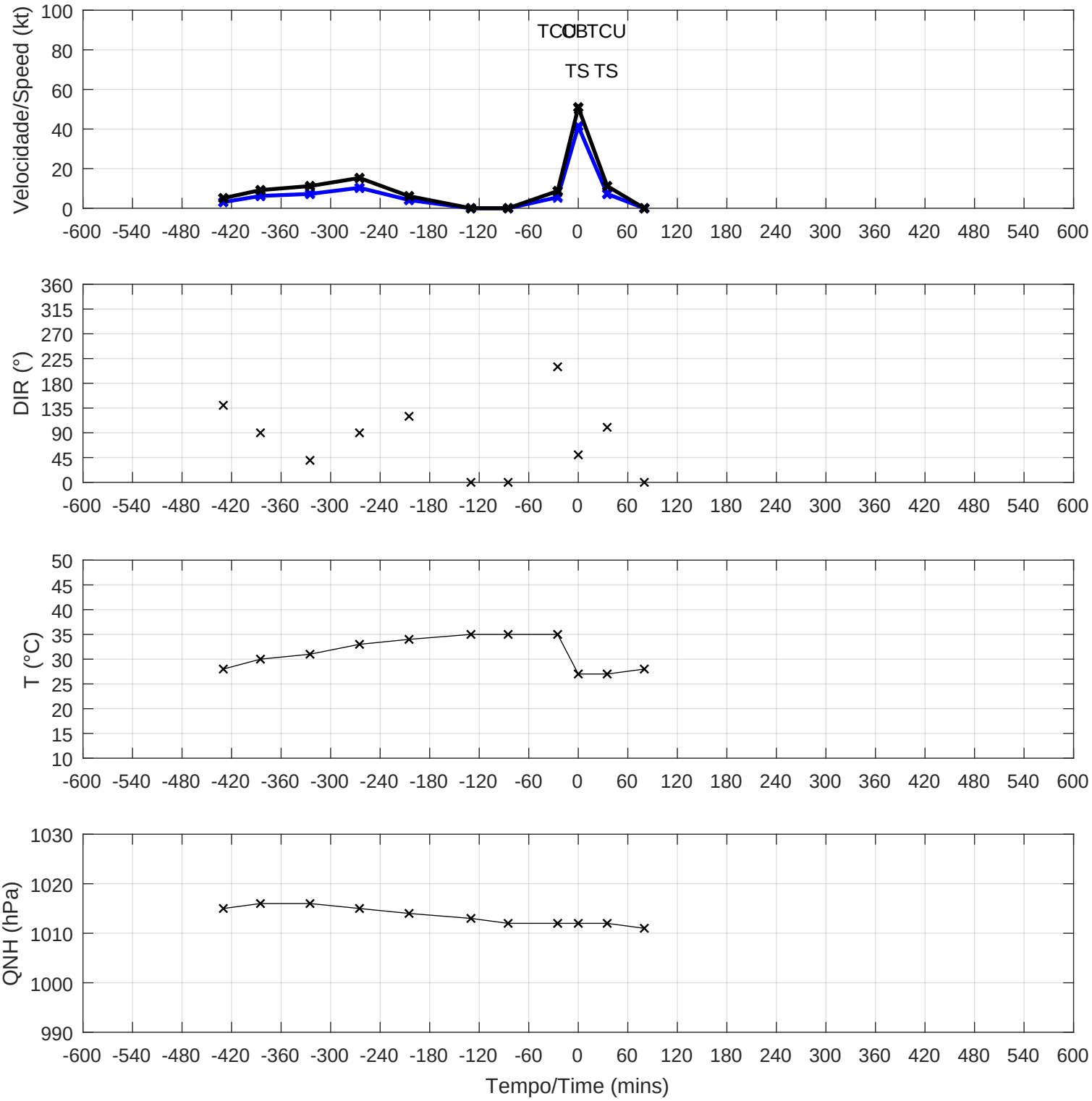
SBLP/83289 EVENTO/EVENT 1 - 13/04/2017, 18:25 UTC (MSS - REDEMET)

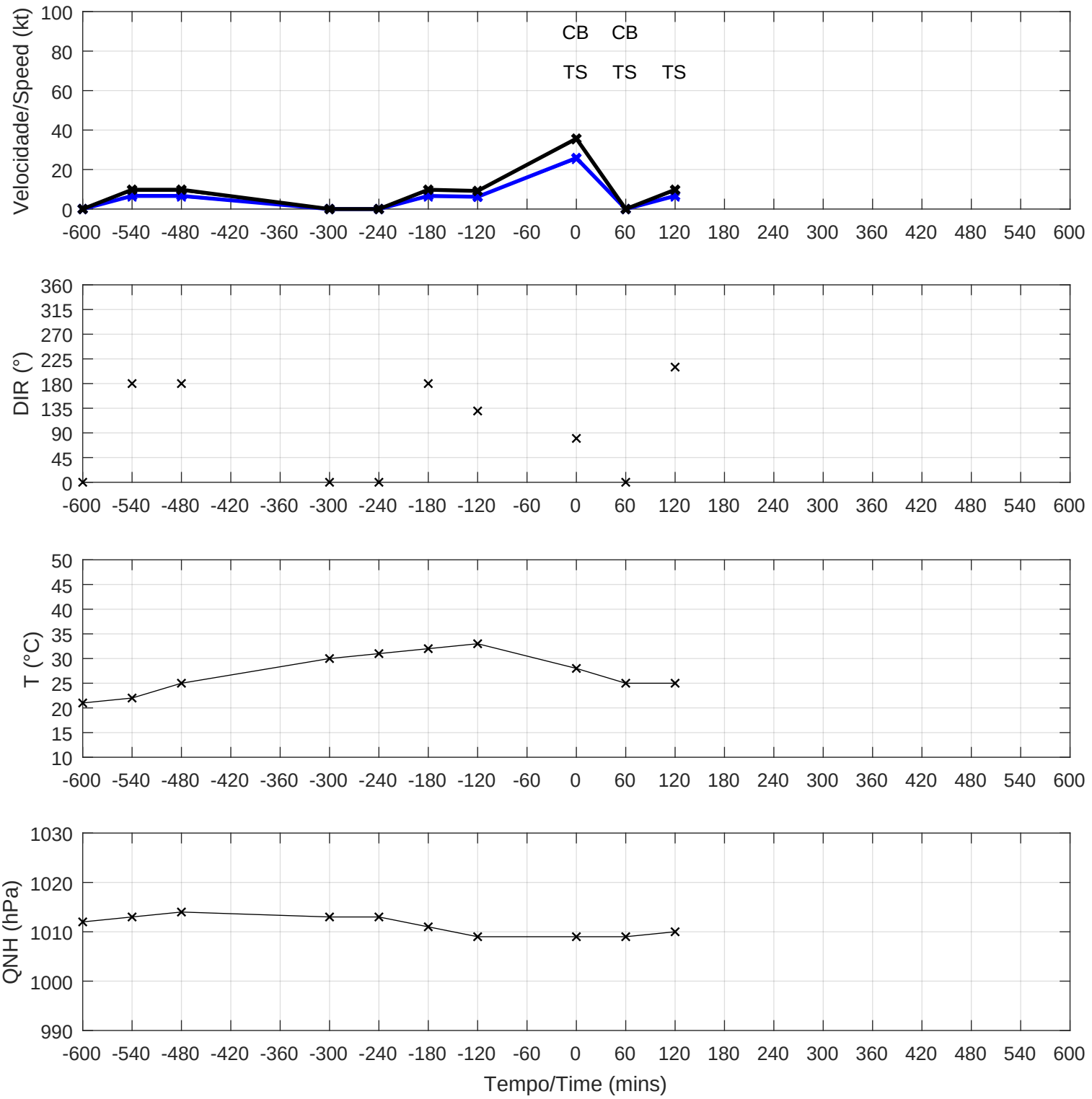
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G* = 50 kt	R_{-6} = 7.3	$T_{med,3}$ = 35.0 °C	DIR = 50°	SIM/YES	NÃO-SINÓTICO
V_{obs} = 40 kt	R_{-3} = 32.5	$\Delta T_{min,3}$ = -8.0 °C	$\Delta DIR_{max,-3}$ = 160°		NON-SYNOPTIC
G_V = [ ]	R_{+3} = 10.6	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 50°		(120)
G_{cor} = 51.0 kt	R_{+6} = [ ]	Δ Grupo/Group = 2	SPECI SBLP 131825Z 05040KT 5000 TSRA SCT030 FEW040CB 27/24 Q1012=		
V_{cor} = 41.4 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

SBLP/83289 EVENTO/EVENT 2 - 21/12/2001, 19:00 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* = 35 kt	R_{-6} = 7.8	$T_{med,3}$ = 32.5 °C	DIR = 80°	SIM/YES	NÃO-SINÓTICO
V_{obs} = 25 kt	R_{-3} = 3.9	$\Delta T_{min,3}$ = -8.0 °C	$\Delta DIR_{max,-3}$ = 100°		NON-SYNOPTIC
G_V = [ ]	R_{+3} = 7.8	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 130°		(120)
G_{cor} = 35.7 kt	R_{+6} = [ ]	Δ Grupo/Group = 2	SBLP 211900Z 08025KT 8000 TS BKN030 FEW040CB BKN300 28/19 Q1009=		
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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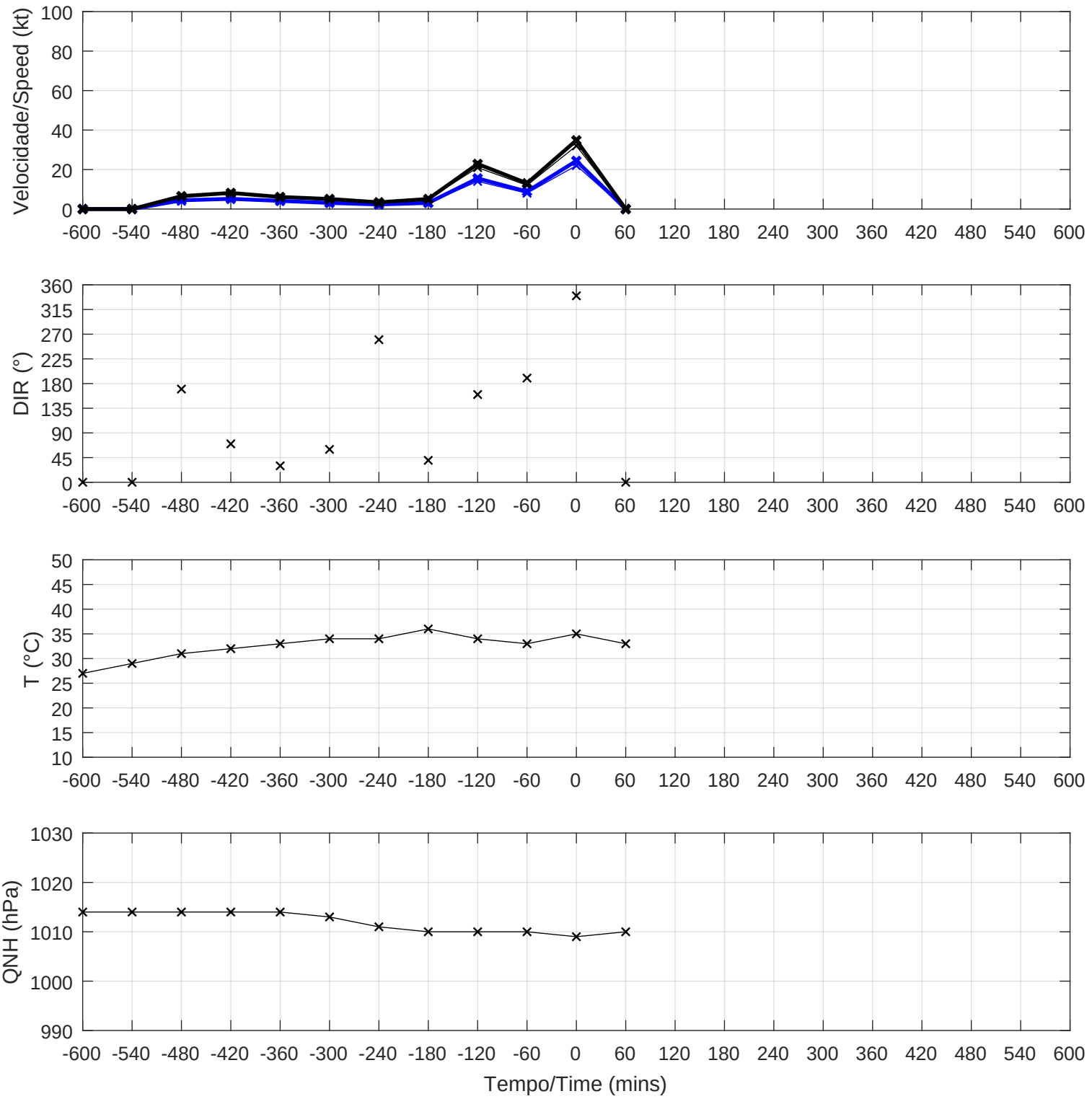
SBLP/83289 EVENTO/EVENT 3 - 12/11/2013, 20:00 UTC (MSS - REDEMET)

Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G* = 32 kt	R_{-6} = 3.7	$T_{med,3}$ = 34.3 °C	DIR = 340°	NÃO/NO	SUSPEITO
V_{obs} = 22 kt	R_{-3} = 2.5	$\Delta T_{min,3}$ = -1.0 °C	$\Delta DIR_{max,-3}$ = 180°		SUSPECT
G_V = [ ]	R_{+3} = Inf	$\Delta Q_{max,3}$ = 1.0 hPa	$\Delta DIR_{max,+3}$ = 0°		(324)
G_{cor} = 34.8 kt	R_{+6} = [ ]	Δ Grupo/Group = 3	METAR SBLP 122000Z 34022KT 9999 SCT030 35/17 Q1009=		
V_{cor} = 24.4 kt					



Matthew Bruce Vallis (matthewbvallis@gmail.com) Tese de Doutorado/Doctorate Thesis, Porto Alegre: PPGEC/UFRGS, 2019
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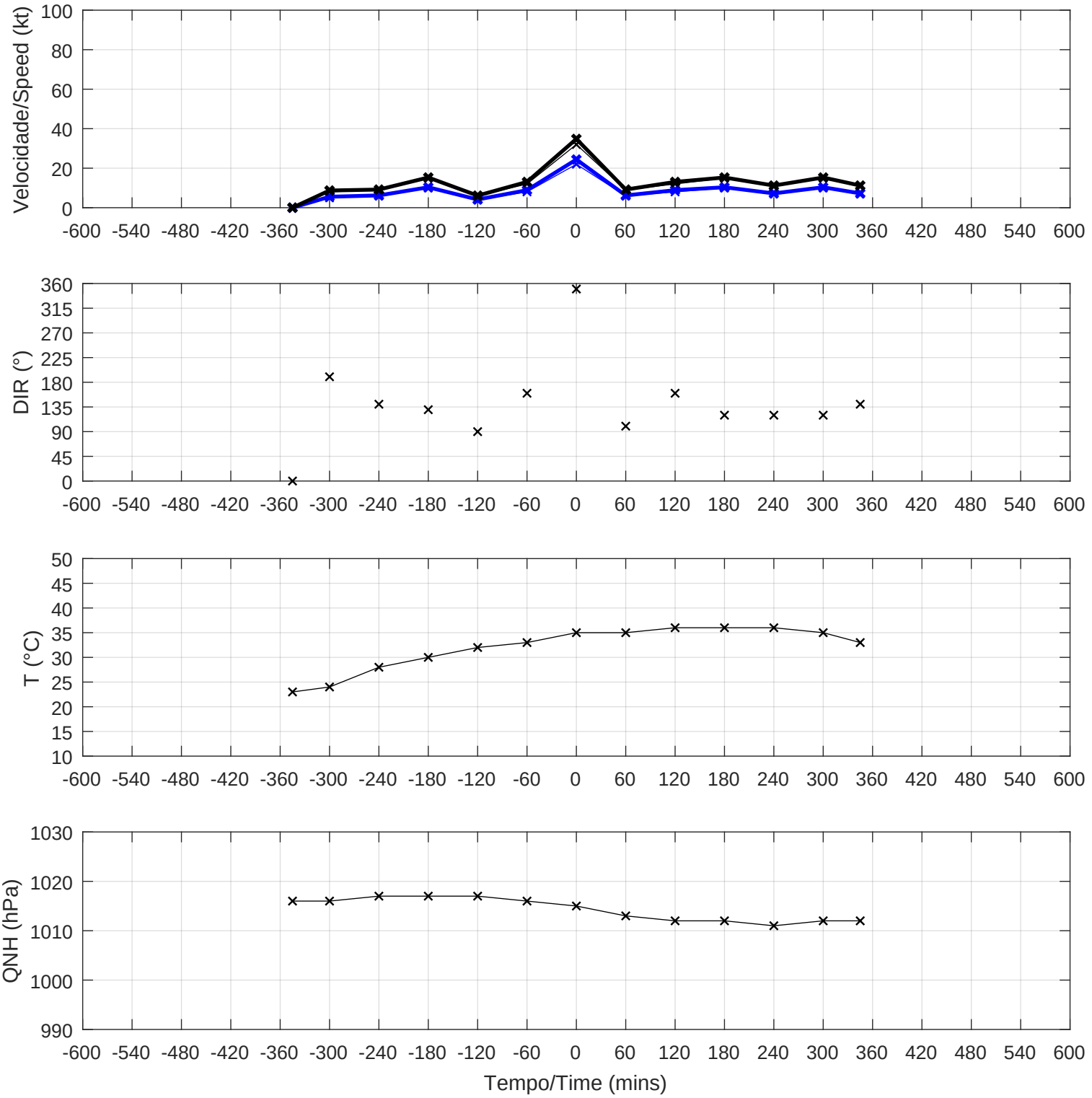
SBLP/83289 EVENTO/EVENT 4 - 07/10/2015, 15:00 UTC (MSS - REDEMET)

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} = 3.7	$T_{med,3}$ = 31.7 °C	DIR = 350°	NÃO/NO	NÃO-SINÓTICO
V_{obs} = 22 kt	R_{-3} = 2.9	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = 170°		NON-SYNOPTIC
G_V = [ ]	R_{+3} = 2.7	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 170°		(127)
G_{cor} = 34.8 kt	R_{+6} = 2.7	Δ Grupo/Group = 3	METAR SBLP 071500Z 35022KT 9999 BKN030 35/16 Q1015=		
V_{cor} = 24.4 kt					



Matthew Bruce Vallis (matthewbvallis@gmail.com) Tese de Doutorado/Doctorate Thesis, Porto Alegre: PPGEC/UFRGS, 2019
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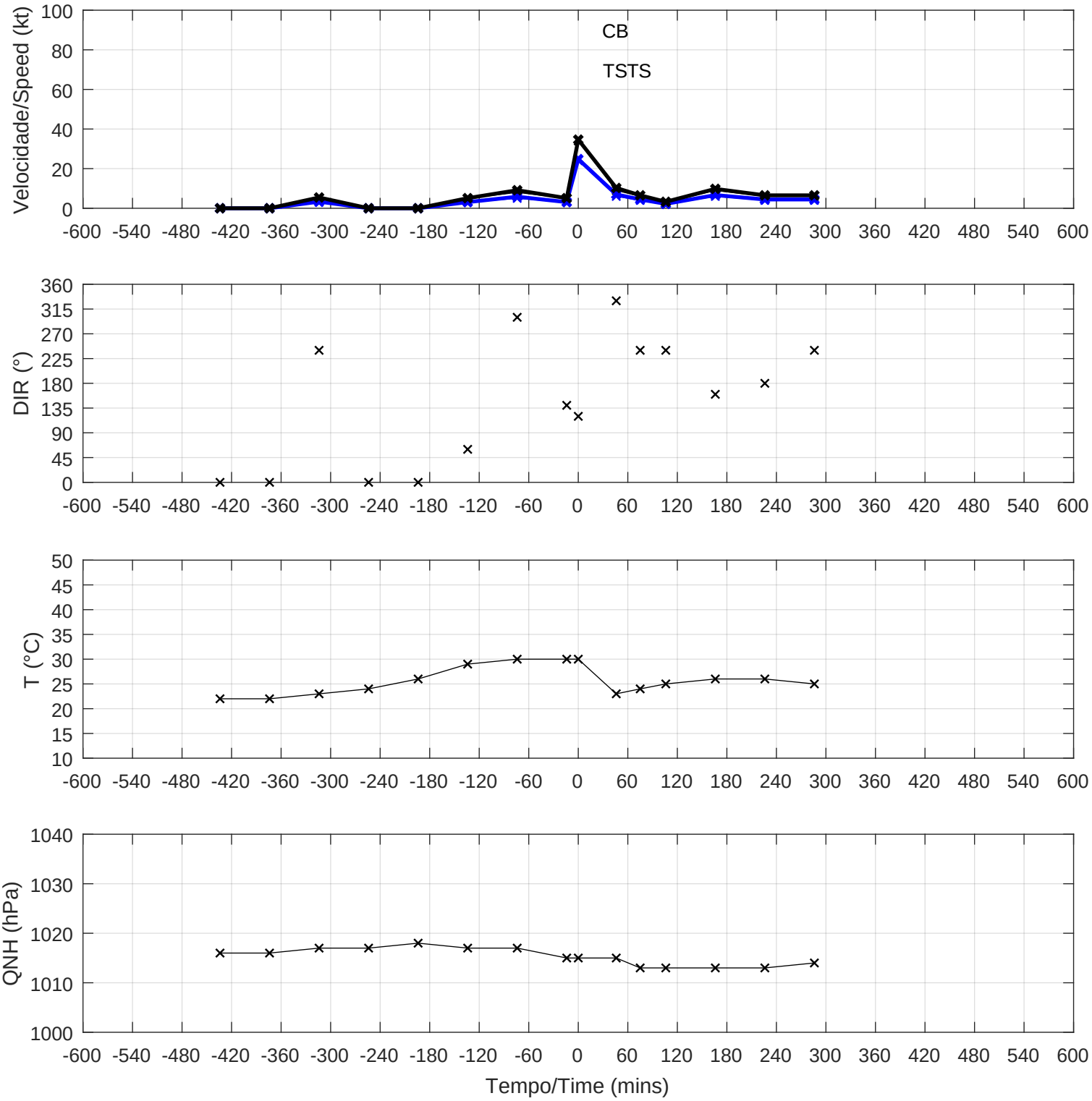
SBLP/83289 EVENTO/EVENT 5 - 24/03/2003, 16:14 UTC (MSS - REDEMET)

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} = 9.3	$T_{med,3}$ = 29.5 °C	DIR = 120°	SIM/YES	NÃO-SINÓTICO
V_{obs} = 24 kt	R_{-3} = 5.4	$\Delta T_{min,3}$ = -7.0 °C	$\Delta DIR_{max,-3}$ = 180°		NON-SYNOPTIC
G_V = [ ]	R_{+3} = 5.2	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 150°		(120)
G_{cor} = 34.7 kt	R_{+6} = 5.4	Δ Grupo/Group = 2	SBLP 241614Z 12024KT 6000 RA SCT030 BKN300 30/23 Q1015=		
V_{cor} = 24.8 kt					



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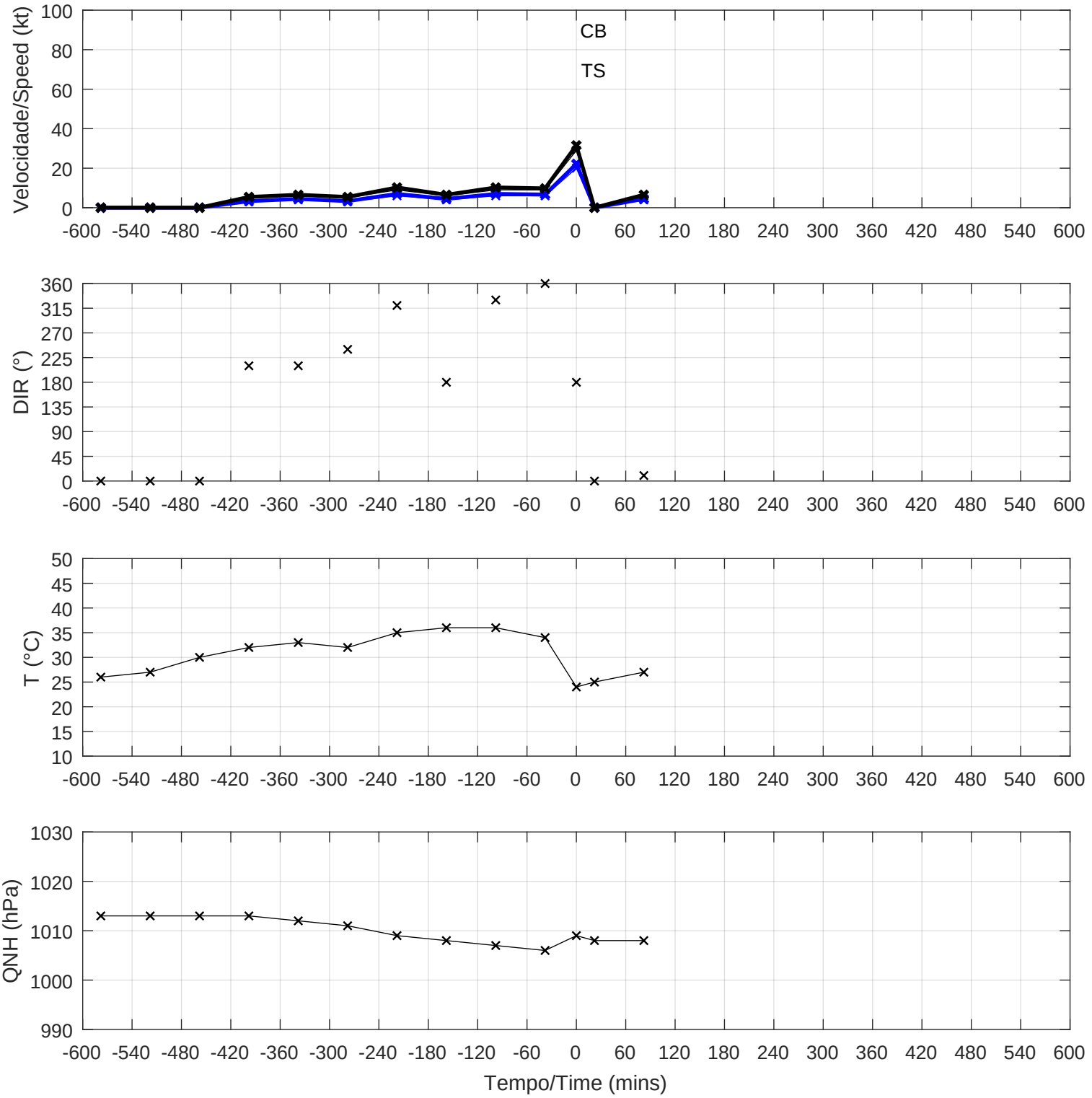
SBLP/83289 EVENTO/EVENT 6 - 28/10/2006, 19:38 UTC (MSS - REDEMET)

Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G* = 29 kt	R_{-6} = 4.0	$T_{med,3}$ = 36.0 °C	DIR = 180°	SIM/YES	NÃO-SINÓTICO
V_{obs} = 20 kt	R_{-3} = 3.7	$\Delta T_{min,3}$ = -12.0 °C	$\Delta DIR_{max,-3}$ = 180°		NON-SYNOPTIC
G_V = [ ]	R_{+3} = 9.7	$\Delta Q_{max,3}$ = 3.0 hPa	$\Delta DIR_{max,+3}$ = 170°		(120)
G_{cor} = 31.5 kt	R_{+6} = [ ]	Δ Grupo/Group = 1	SBLP 281938Z 18020KT 6000 -RA BKN030 BKN300 24/20 Q1009=		
V_{cor} = 22.2 kt					



Matthew Bruce Vallis (matthewbvallis@gmail.com) Tese de Doutorado/Doctorate Thesis, Porto Alegre: PPGEC/UFRGS, 2019
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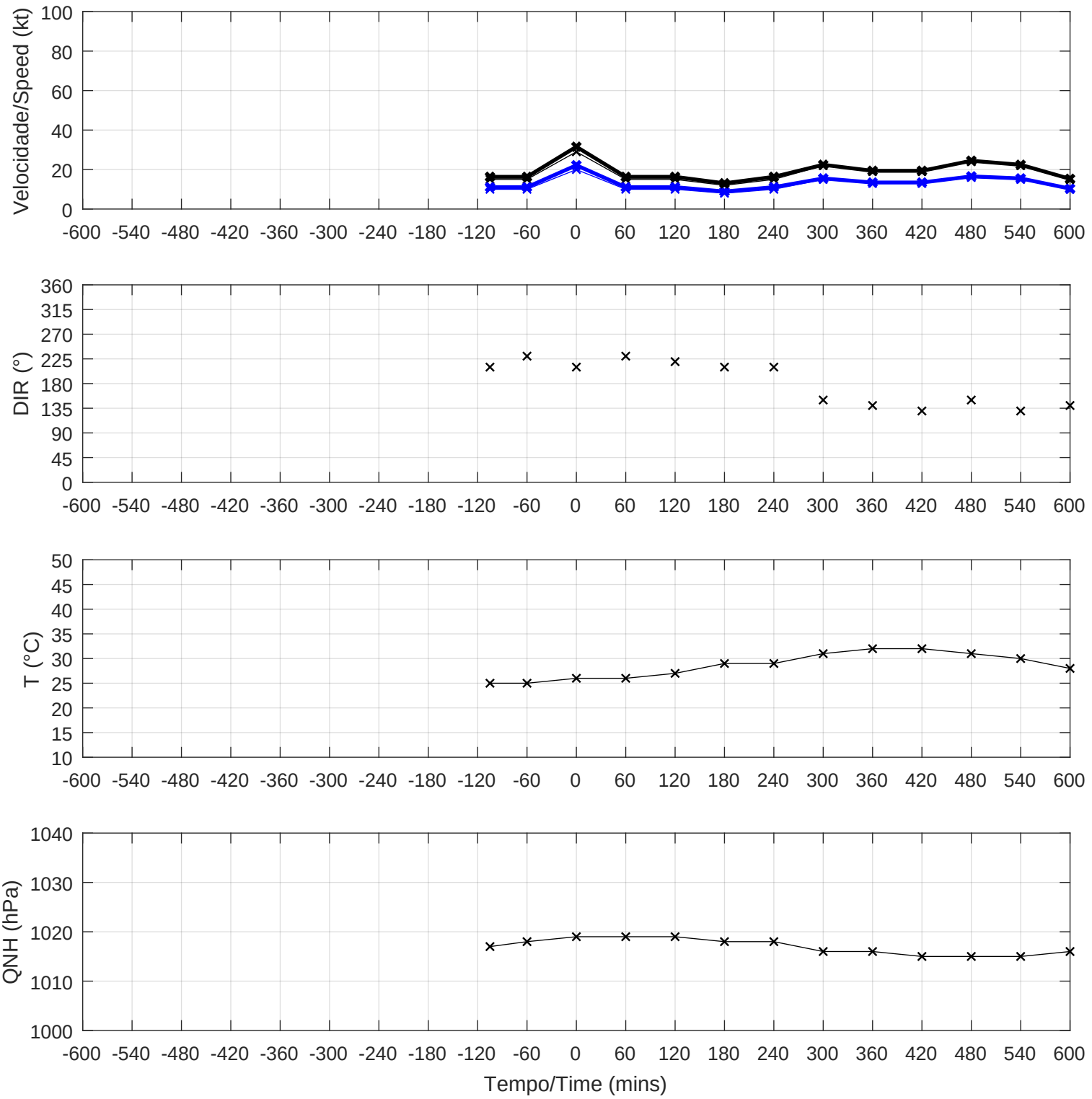
SBLP/83289 EVENTO/EVENT 7 - 03/10/2014, 11:00 UTC (MSS - REDEMET)

Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G* = 29 kt	R_{-6} = [ ]	$T_{med,3}$ = 25.0 °C	DIR = 210°	NÃO/NO	SINÓTICO
V_{obs} = 20 kt	R_{-3} = 1.9	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = 20°		SYNOPTIC
G_V = [ ]	R_{+3} = 2.1	$\Delta Q_{max,3}$ = 2.0 hPa	$\Delta DIR_{max,+3}$ = 20°		(225)
G_{cor} = 31.5 kt	R_{+6} = 1.8	Δ Grupo/Group = 3	METAR SBLP 031100Z 21020KT 9999 BKN030 26/17 Q1019=		
V_{cor} = 22.2 kt					



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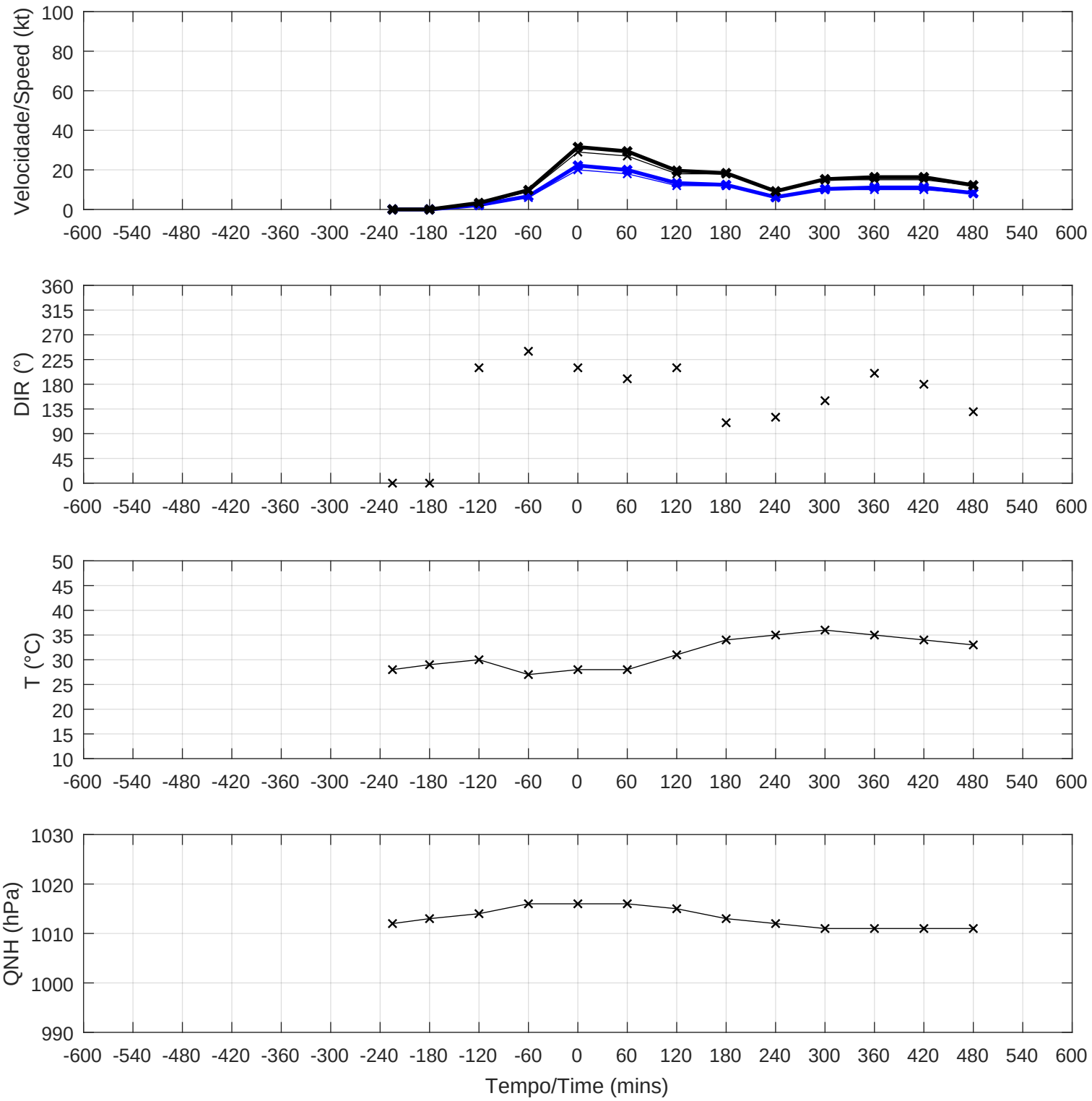
Modelo Climático para Ventos Extremos no Brasil/Brazilian Extreme Wind Climate

SBLP/83289 EVENTO/EVENT 8 - 21/10/2014, 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* = 29 kt	R_{-6} = 9.1	$T_{med,3}$ = 28.7 °C	DIR = 210°	NÃO/NO	SINÓTICO
V_{obs} = 20 kt	R_{-3} = 7.3	$\Delta T_{min,3}$ = -3.0 °C	$\Delta DIR_{max,-3}$ = 30°		SYNOPTIC
G_V = [ ]	R_{+3} = 1.4	$\Delta Q_{max,3}$ = 2.0 hPa	$\Delta DIR_{max,+3}$ = 100°		(122)
G_{cor} = 31.5 kt	R_{+6} = 1.7	Δ Grupo/Group = 2	METAR SBLP 211300Z 21020KT 9999 FEW020 SCT100 28/18 Q1016=		
V_{cor} = 22.2 kt					



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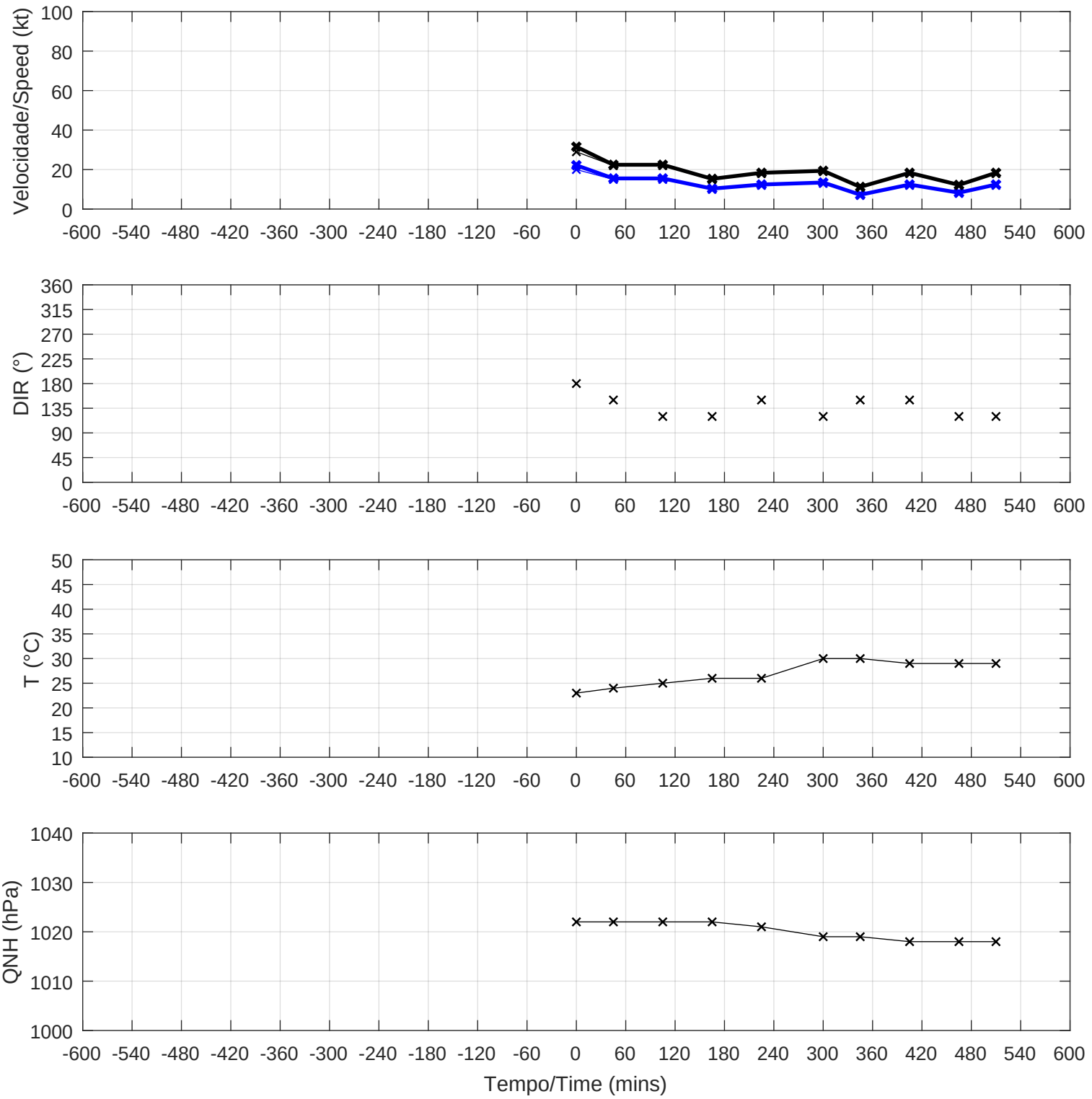
Modelo Climático para Ventos Extremos no Brasil/Brazilian Extreme Wind Climate

SBLP/83289 EVENTO/EVENT 9 - 27/07/2017, 11:15 UTC (MSS - REDEMET)

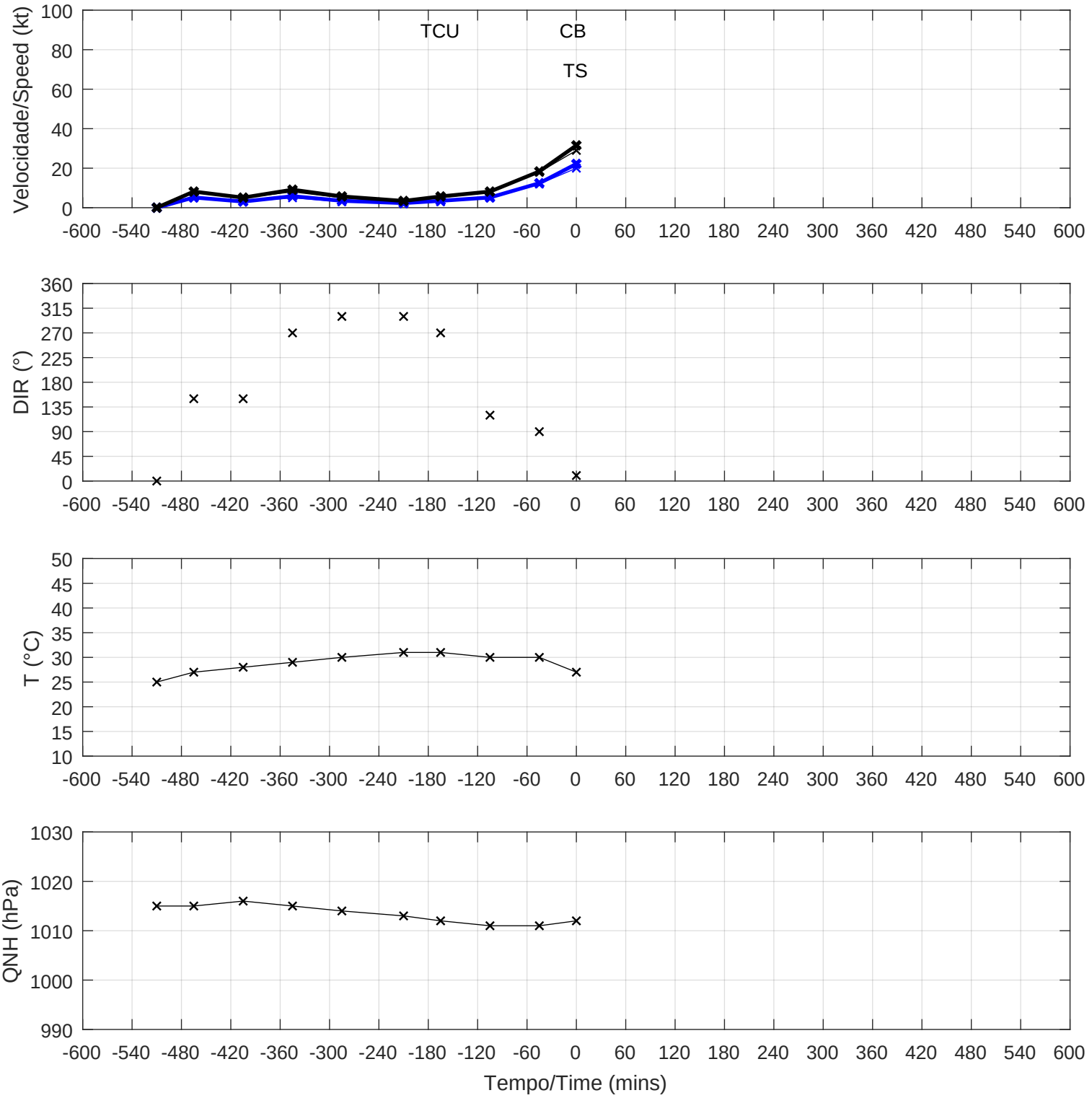
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G* = 29 kt	R_{-6} = [ ]	$T_{med,3}$ = [ ]	DIR = 180°	NÃO/NO	SINÓTICO
V_{obs} = 20 kt	R_{-3} = [ ]	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = [ ]		SYNOPTIC
G_V = [ ]	R_{+3} = 1.5	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 60°		(226)
G_{cor} = 31.5 kt	R_{+6} = 1.6	Δ Grupo/Group = 3	SPECI SBLP 271115Z 18020KT CAVOK 23/12 Q1022=		
V_{cor} = 22.2 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

SBLP/83289 EVENTO/EVENT 10 - 23/02/2018, 19:45 UTC (MSS - REDEMET)

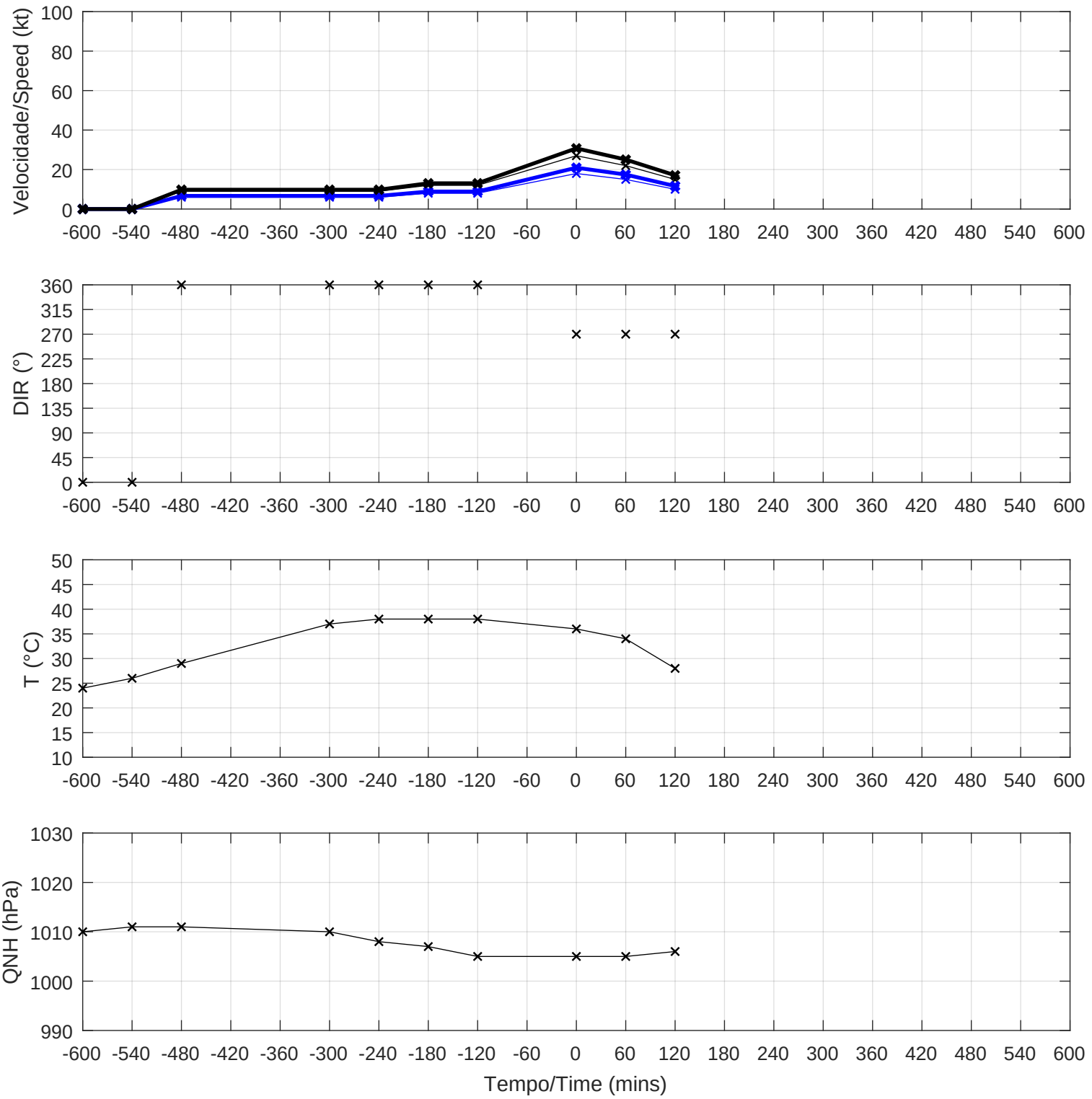
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G* = 29 kt	R_{-6} = 3.8	$T_{med,3}$ = 30.5 °C	DIR = 10°	SIM/YES	NÃO-SINÓTICO
V_{obs} = 20 kt	R_{-3} = 3.0	$\Delta T_{min,3}$ = -3.0 °C	$\Delta DIR_{max,-3}$ = 110°		NON-SYNOPTIC
G_V = [ ]	R_{+3} = [ ]	$\Delta Q_{max,3}$ = 1.0 hPa	$\Delta DIR_{max,+3}$ = [ ]		(124)
G_{cor} = 31.5 kt	R_{+6} = [ ]	Δ Grupo/Group = 3	SPECI SBLP 231945Z 01020KT 9999 TS SCT030 FEW040CB 27/22 Q1012=		
V_{cor} = 22.2 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

SBLP/83289 EVENTO/EVENT 11 - 14/11/2001, 19:00 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* = 27 kt	R_{-6} = 2.6	$T_{med,3}$ = 38.0 °C	DIR = 270°	NÃO/NO	NÃO-SINÓTICO
V_{obs} = 18 kt	R_{-3} = 2.3	$\Delta T_{min,3}$ = -4.0 °C	$\Delta DIR_{max,-3}$ = 90°		NON-SYNOPTIC
G_V = [ ]	R_{+3} = 1.5	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 0°		(126)
G_{cor} = 30.7 kt	R_{+6} = [ ]	Δ Grupo/Group = 3	SBLP 141900Z 27018KT 9999 SCT030 BKN300 36/18 Q1005=		
V_{cor} = 20.9 kt					



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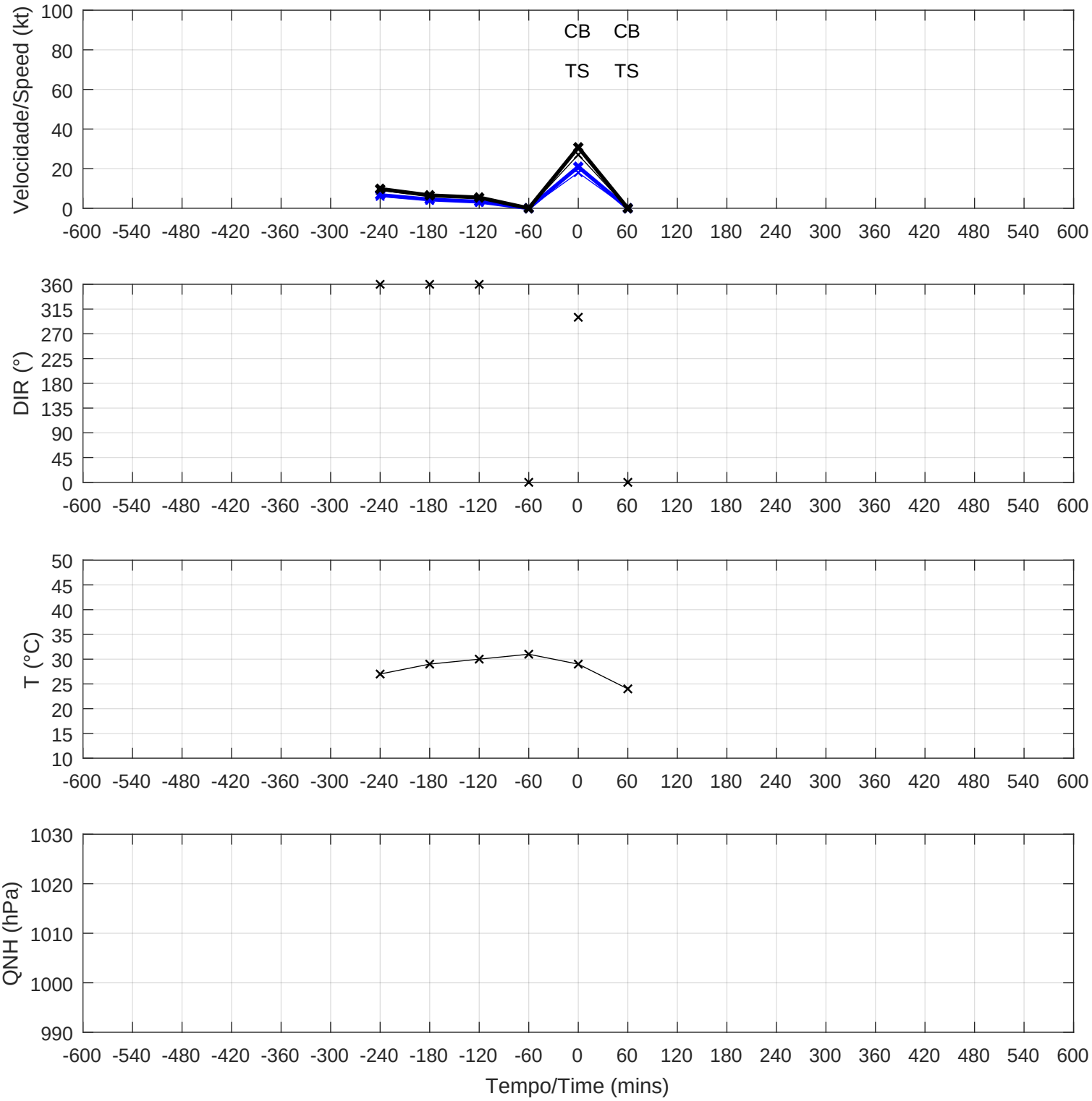
Modelo Climático para Ventos Extremos no Brasil/Brazilian Extreme Wind Climate

SBLP/83289 EVENTO/EVENT 12 - 03/12/2018, 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* = 27 kt	R_{-6} = 5.4	$T_{med,3}$ = 30.0 °C	DIR = 300°	SIM/YES	NÃO-SINÓTICO
V_{obs} = 18 kt	R_{-3} = 7.4	$\Delta T_{min,3}$ = -7.0 °C	$\Delta DIR_{max,-3}$ = 60°		NON-SYNOPTIC
G_V = [ ]	R_{+3} = Inf	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 0°		(120)
G_{cor} = 30.7 kt	R_{+6} = [ ]	Δ Grupo/Group = 2	METAR SBLP 031700Z 30018KT 8000 -TSRA SCT020 FEW040CB BKN100 29/23 Q////=		
V_{cor} = 20.9 kt					



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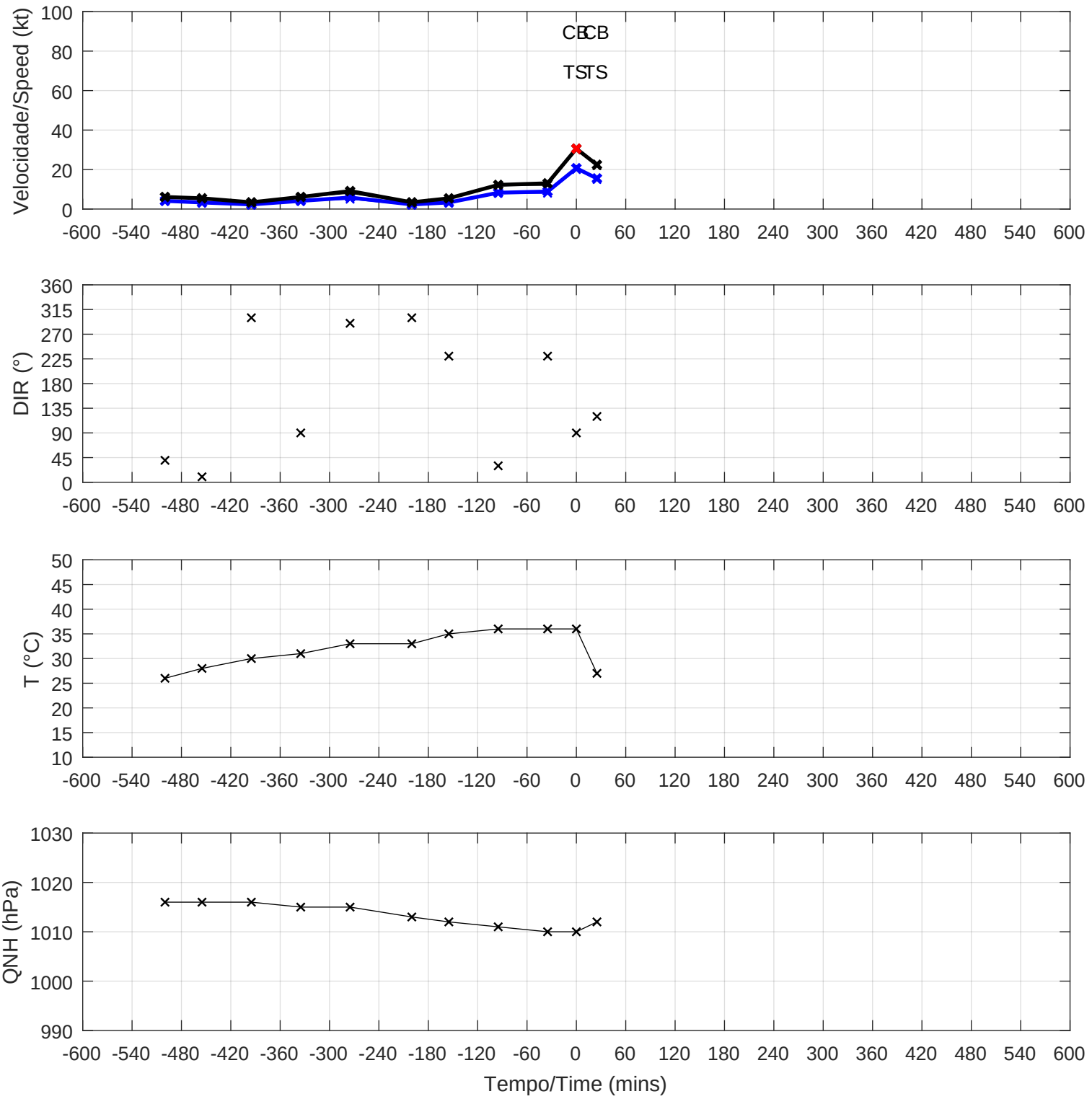
Modelo Climático para Ventos Extremos no Brasil/Brazilian Extreme Wind Climate

SBLP/83289 EVENTO/EVENT 13 - 22/01/2015, 19:35 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} = 30 kt	R_{-6} = 4.0	$T_{med,3}$ = 35.5 °C	DIR = 90°	SIM/YES	NÃO-SINÓTICO
V_{obs} = 20 kt	R_{-3} = 3.2	$\Delta T_{min,3}$ = -9.0 °C	$\Delta DIR_{max,-3}$ = 140°		NON-SYNOPTIC
G_V = 1.5	R_{+3} = 1.4	$\Delta Q_{max,3}$ = 2.0 hPa	$\Delta DIR_{max,+3}$ = 30°		(110)
G_{cor} = 30.6 kt	R_{+6} = [ ]	Δ Grupo/Group = 1	SPECI SBLP 221935Z 09020G30KT 9999 5000E TS SCT030 FEW040CB 36/18 Q1010=		
V_{cor} = 20.7 kt					



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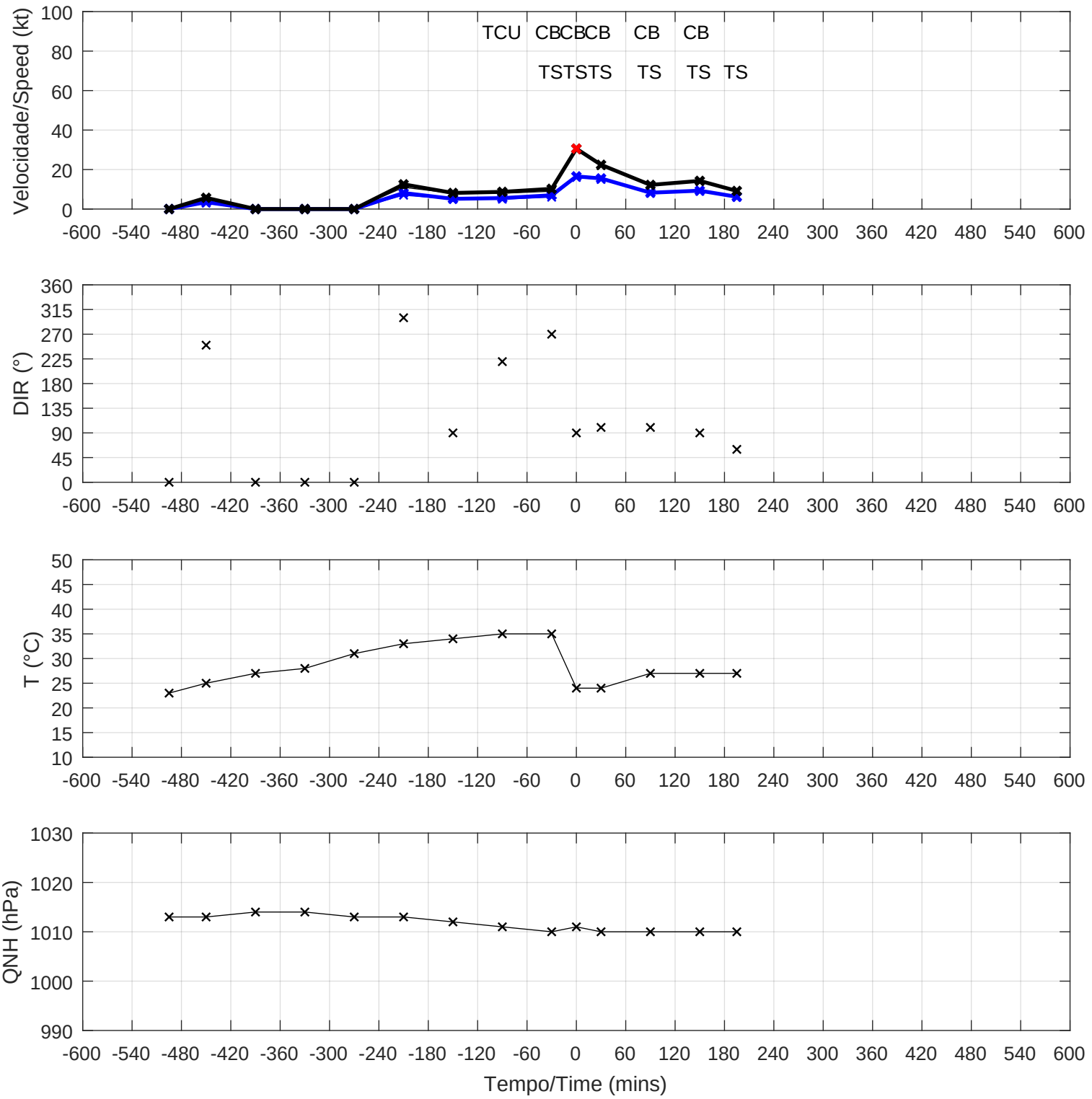
Modelo Climático para Ventos Extremos no Brasil/Brazilian Extreme Wind Climate

SBLP/83289 EVENTO/EVENT 14 - 28/11/2015, 17:30 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} = 30 kt	R_{-6} = 5.2	$T_{med,3}$ = 34.5 °C	DIR = 90°	SIM/YES	NÃO-SINÓTICO
V_{obs} = 16 kt	R_{-3} = 3.7	$\Delta T_{min,3}$ = -11.0 °C	$\Delta DIR_{max,-3}$ = 180°		NON-SYNOPTIC
G_V = 1.9	R_{+3} = 1.9	$\Delta Q_{max,3}$ = 1.0 hPa	$\Delta DIR_{max,+3}$ = 10°		(110)
G_{cor} = 30.6 kt	R_{+6} = 2.1	Δ Grupo/Group = 1	SPECI SBLP 281730Z 09016G30KT 8000 -TSRA SCT030CB SCT030 24/21 Q1011=		
V_{cor} = 16.5 kt					



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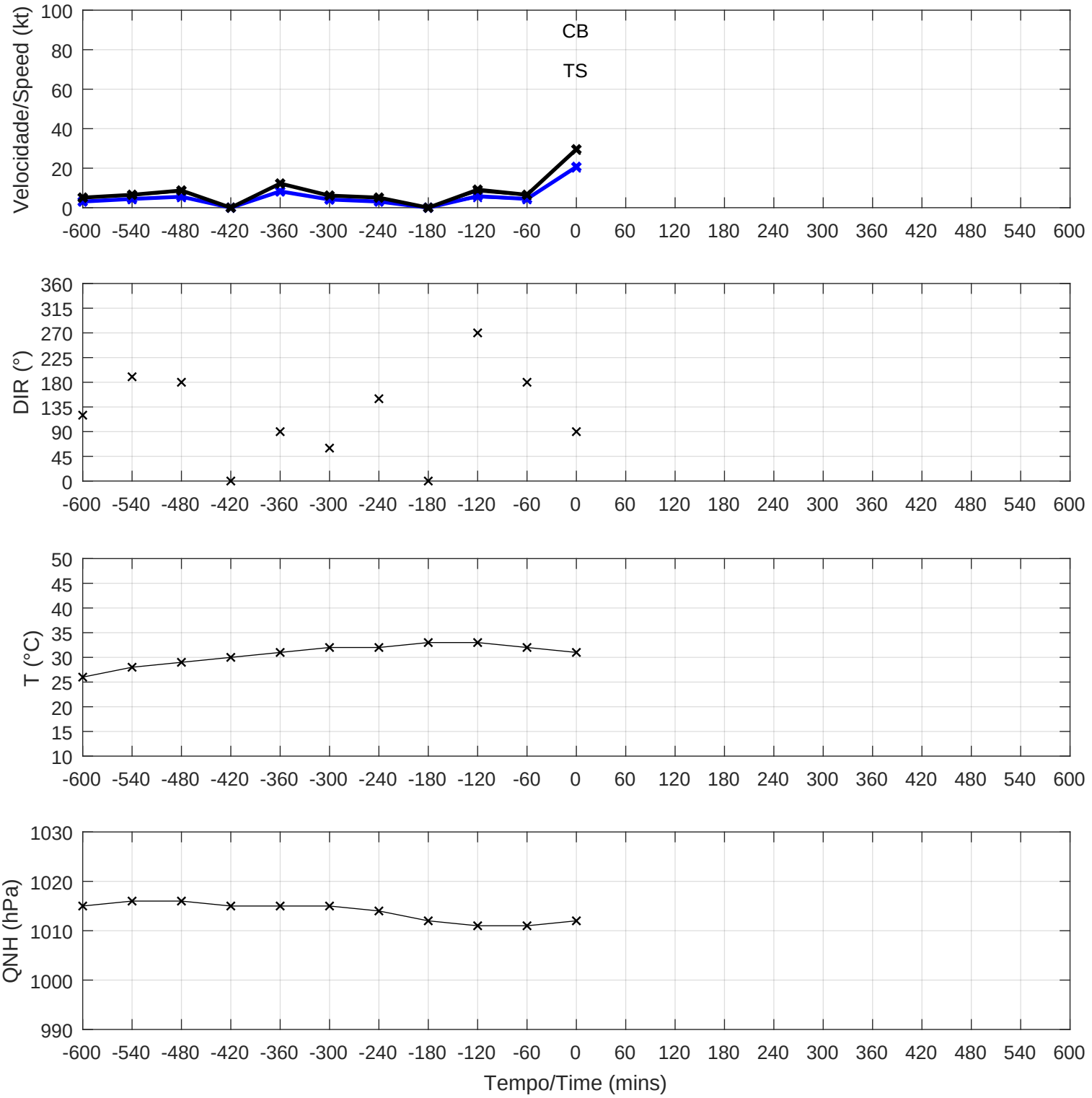
SBLP/83289 EVENTO/EVENT 15 - 31/01/2003, 21:00 UTC (MSS - REDEMET)

Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G* = 29 kt	R_{-6} = 4.7	$T_{med,3}$ = 32.7 °C	DIR = 90°	SIM/YES	NÃO-SINÓTICO
V_{obs} = 20 kt	R_{-3} = 6.2	$\Delta T_{min,3}$ = -2.0 °C	$\Delta DIR_{max,-3}$ = 180°		NON-SYNOPTIC
G_V = [ ]	R_{+3} = [ ]	$\Delta Q_{max,3}$ = 1.0 hPa	$\Delta DIR_{max,+3}$ = [ ]		(124)
G_{cor} = 29.6 kt	R_{+6} = [ ]	Δ Grupo/Group = 3	SBLP 312100Z 09020KT 8000 -TSRA SCT030 FEW040CB 31/20 Q1012=		
V_{cor} = 20.7 kt					



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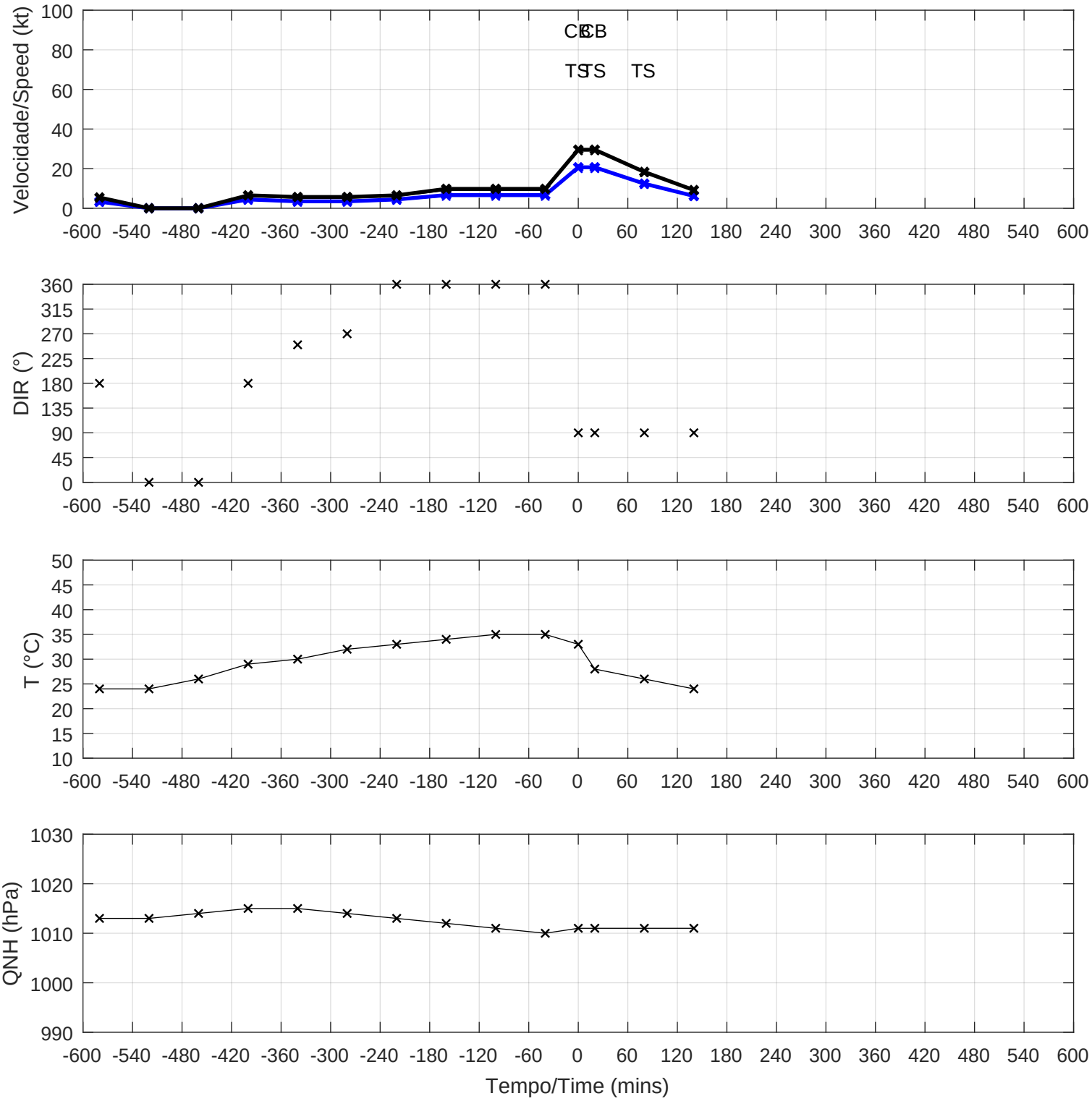
Modelo Climático para Ventos Extremos no Brasil/Brazilian Extreme Wind Climate

SBLP/83289 EVENTO/EVENT 16 - 11/02/2003, 18:40 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* = 29 kt	R_{-6} = 4.1	$T_{med,3}$ = 34.5 °C	DIR = 90°	SIM/YES	NÃO-SINÓTICO
V_{obs} = 20 kt	R_{-3} = 3.2	$\Delta T_{min,3}$ = -7.0 °C	$\Delta DIR_{max,-3}$ = 90°		NON-SYNOPTIC
G_V = [ ]	R_{+3} = 1.6	$\Delta Q_{max,3}$ = 1.0 hPa	$\Delta DIR_{max,+3}$ = 0°		(120)
G_{cor} = 29.6 kt	R_{+6} = [ ]	Δ Grupo/Group = 2	SBLP 111840Z 09020KT 9999 TS BKN030 FEW040CB 33/20 Q1011=		
V_{cor} = 20.7 kt					



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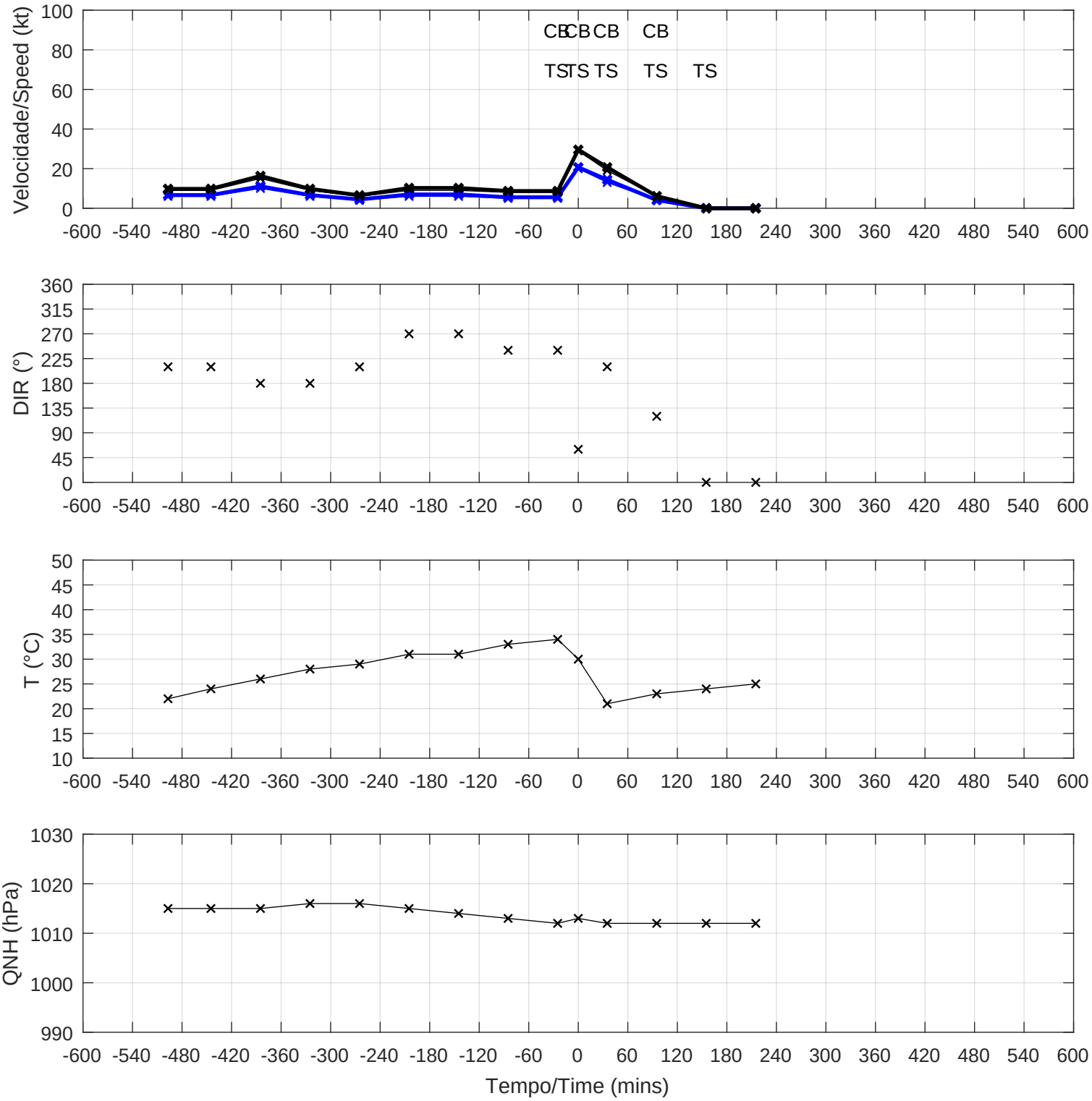
SBLP/83289 EVENTO/EVENT 17 - 19/12/2006, 17:25 UTC (MSS - REDEMET)

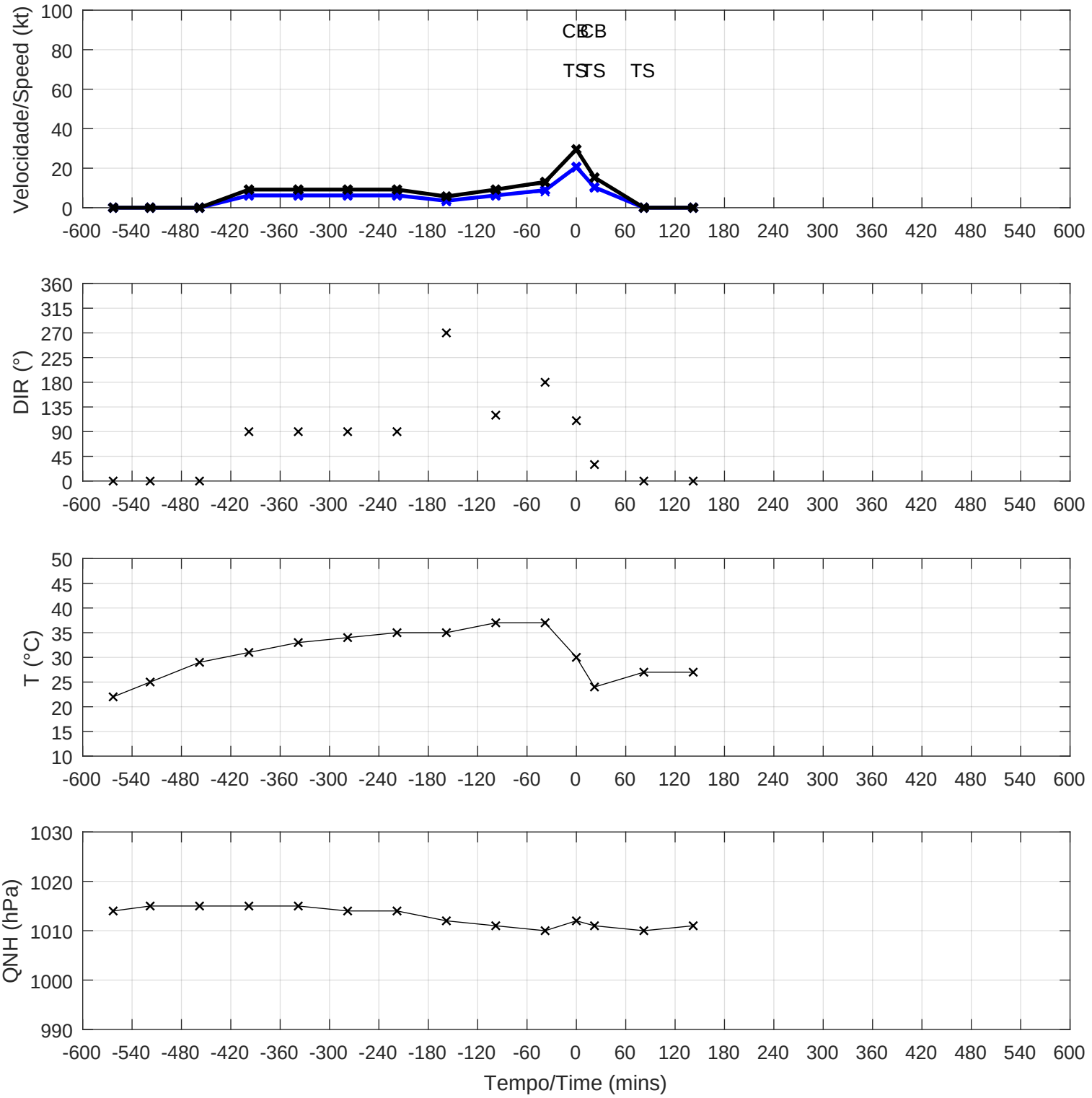
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G* = 29 kt	R_{-6} = 3.5	$T_{med,3}$ = 32.0 °C	DIR = 60°	SIM/YES	NÃO-SINÓTICO
V_{obs} = 20 kt	R_{-3} = 3.4	$\Delta T_{min,3}$ = -13.0 °C	$\Delta DIR_{max,-3}$ = 180°		NON-SYNOPTIC
G_V = [ ]	R_{+3} = 3.5	$\Delta Q_{max,3}$ = 1.0 hPa	$\Delta DIR_{max,+3}$ = 150°		(120)
G_{cor} = 29.6 kt	R_{+6} = 4.6	Δ Grupo/Group = 1	SBLP 191725Z 06020KT 1000 TSRA SCT030 FEW040CB 30/23 Q1013=		
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

SBLP/83289 EVENTO/EVENT 18 - 07/02/2011, 18:38 UTC (MSS - REDEMET)

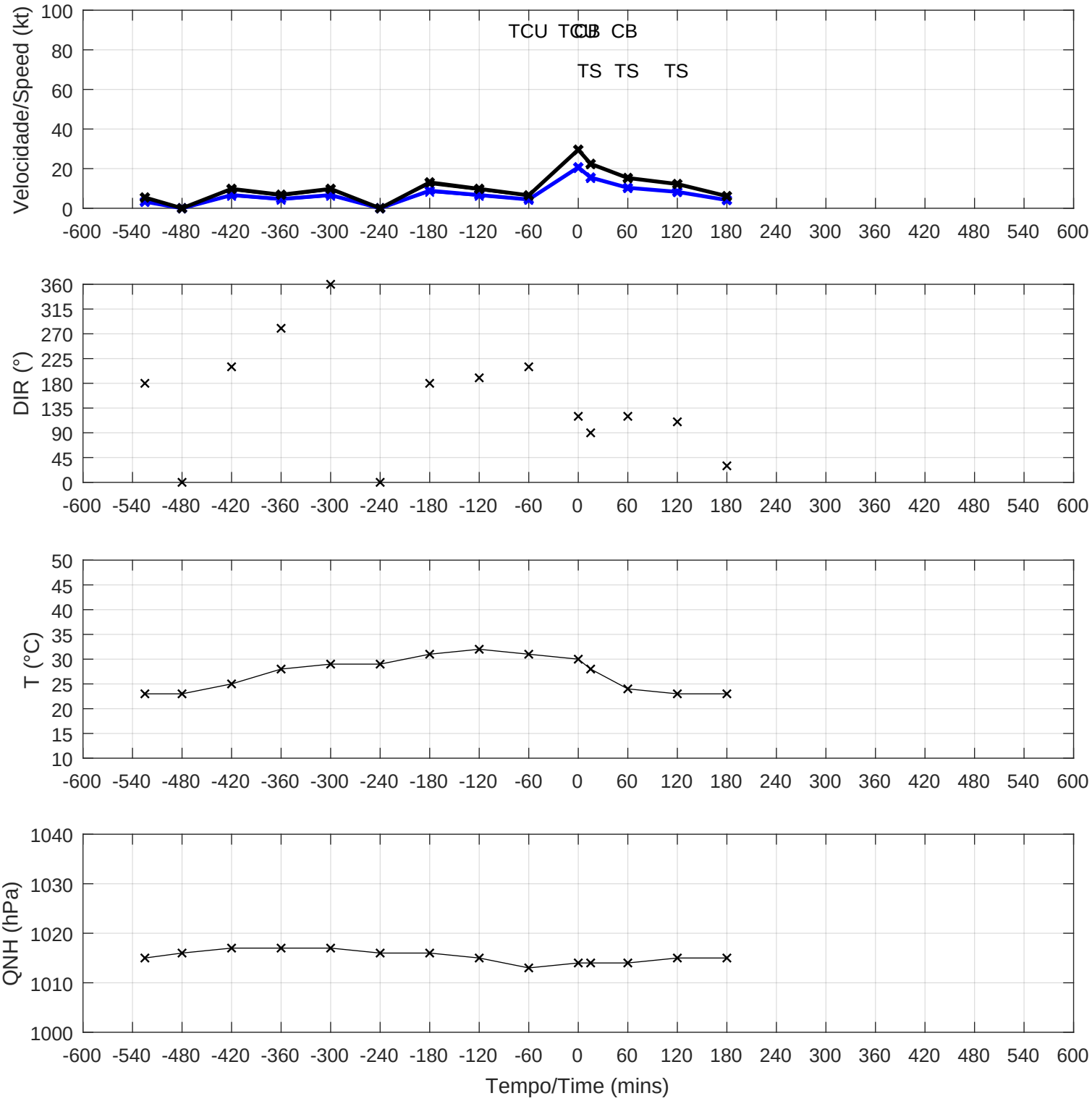
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G* = 29 kt	R_{-6} = 3.4	$T_{med,3}$ = 36.0 °C	DIR = 110°	SIM/YES	NÃO-SINÓTICO
V_{obs} = 20 kt	R_{-3} = 3.5	$\Delta T_{min,3}$ = -13.0 °C	$\Delta DIR_{max,-3}$ = 160°		NON-SYNOPTIC
G_V = [ ]	R_{+3} = 5.8	$\Delta Q_{max,3}$ = 2.0 hPa	$\Delta DIR_{max,+3}$ = 80°		(120)
G_{cor} = 29.6 kt	R_{+6} = [ ]	Δ Grupo/Group = 1	SBLP 071838Z 11020KT 5000 TSRA SCT030 FEW040CB 30/26 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

SBLP/83289 EVENTO/EVENT 19 - 10/04/2011, 18:00 UTC (MSS - REDEMET)

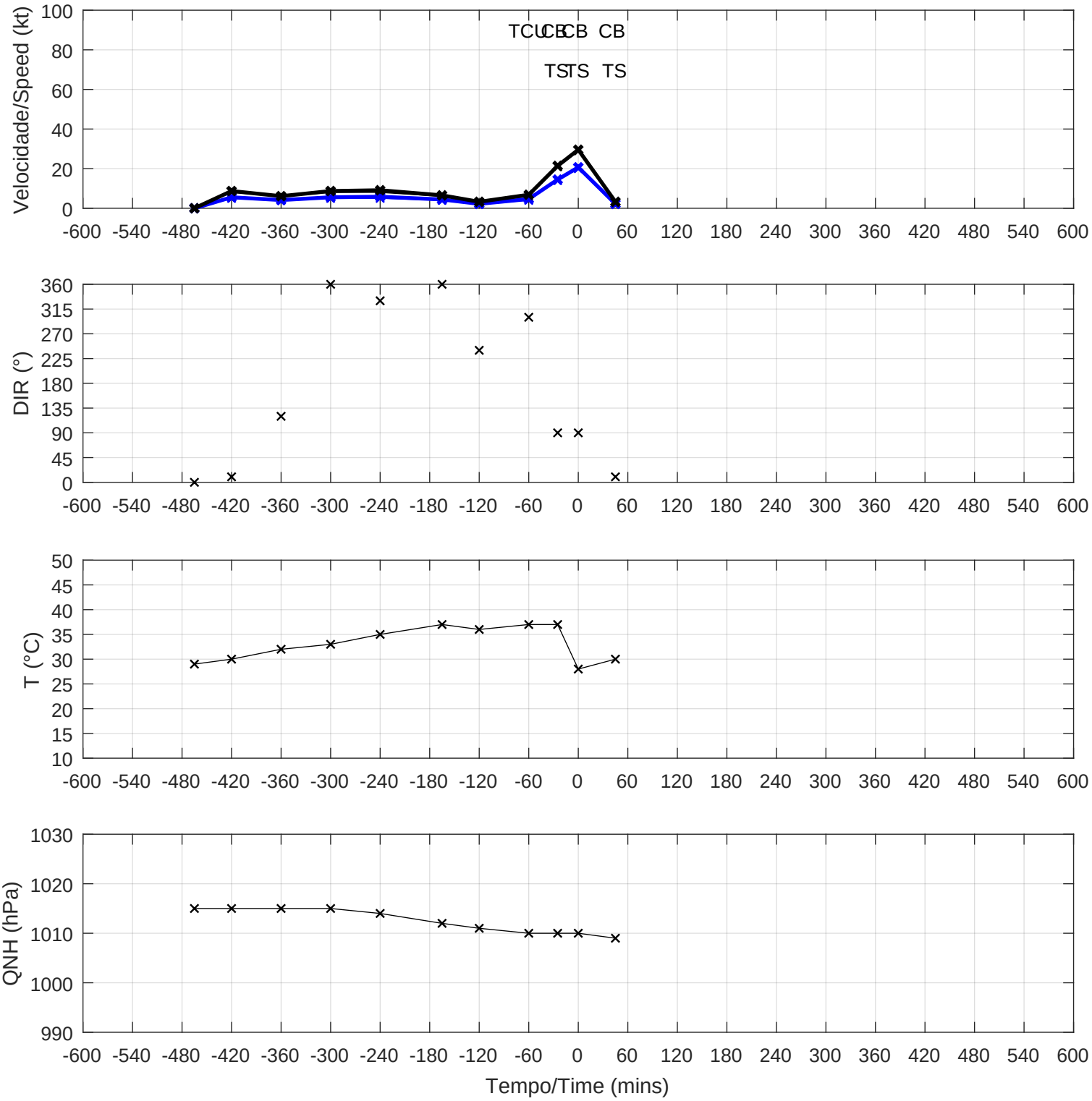
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G* = 29 kt	R_{-6} = 4.1	$T_{med,3}$ = 31.3 °C	DIR = 120°	SIM/YES	NÃO-SINÓTICO
V_{obs} = 20 kt	R_{-3} = 3.2	$\Delta T_{min,3}$ = -8.0 °C	$\Delta DIR_{max,-3}$ = 90°		NON-SYNOPTIC
G_V = [ ]	R_{+3} = 2.2	$\Delta Q_{max,3}$ = 1.0 hPa	$\Delta DIR_{max,+3}$ = 90°		(120)
G_{cor} = 29.6 kt	R_{+6} = [ ]	Δ Grupo/Group = 2	SBLP 101800Z 12020KT 9999 SCT030 FEW040TCU 30/21 Q1014=		
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

SBLP/83289 EVENTO/EVENT 20 - 12/01/2017, 19:00 UTC (MSS - REDEMET)

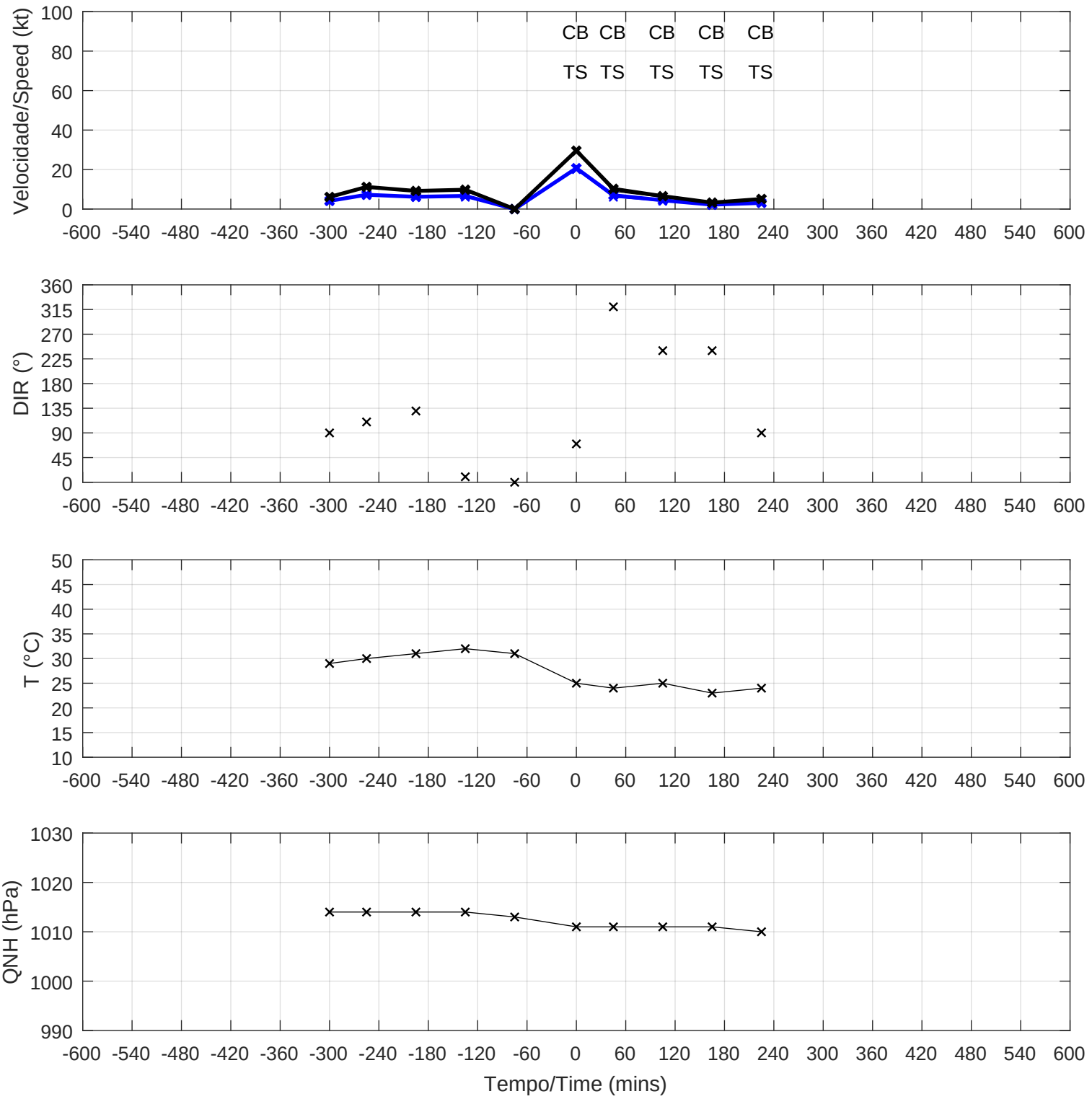
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G* = 29 kt	R_{-6} = 4.0	$T_{med,3}$ = 36.6 °C	DIR = 90°	SIM/YES	NÃO-SINÓTICO
V_{obs} = 20 kt	R_{-3} = 4.0	$\Delta T_{min,3}$ = -9.0 °C	$\Delta DIR_{max,-3}$ = 150°		NON-SYNOPTIC
G_V = [ ]	R_{+3} = 9.7	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 80°		(120)
G_{cor} = 29.6 kt	R_{+6} = [ ]	Δ Grupo/Group = 2	METAR SBLP 121900Z 09020KT 8000 -TSRA FEW030 FEW040CB 28/22 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

SBLP/83289 EVENTO/EVENT 21 - 23/03/2018, 16:15 UTC (MSS - REDEMET)

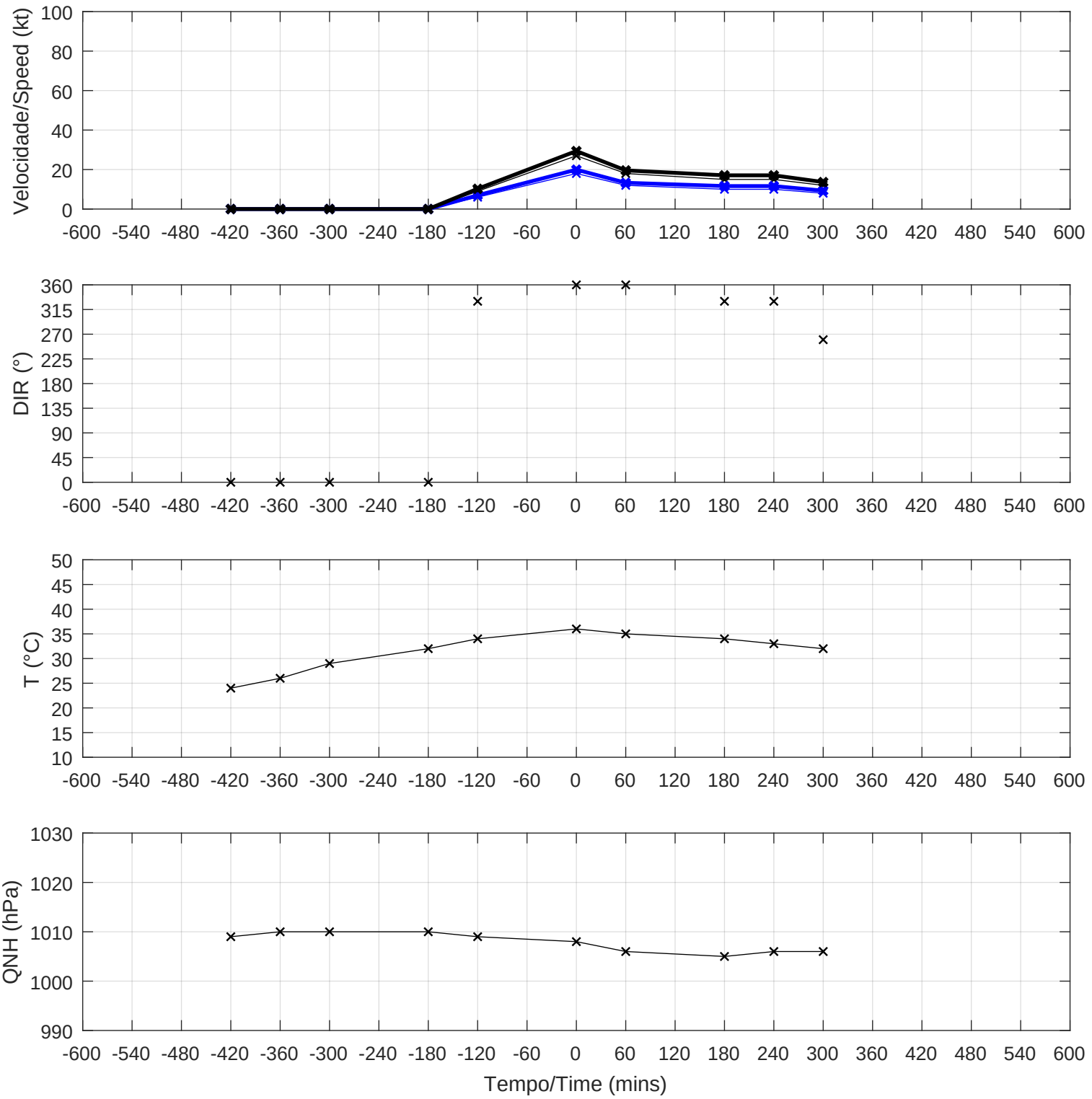
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G* = 29 kt	R_{-6} = 4.1	$T_{med,3}$ = 31.5 °C	DIR = 70°	SIM/YES	NÃO-SINÓTICO
V_{obs} = 20 kt	R_{-3} = 6.4	$\Delta T_{min,3}$ = -7.0 °C	$\Delta DIR_{max,-3}$ = 60°		NON-SYNOPTIC
G_V = [ ]	R_{+3} = 4.8	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 170°		(120)
G_{cor} = 29.6 kt	R_{+6} = 5.0	Δ Grupo/Group = 2	SPECI SBLP 231615Z 07020KT 9999 -TSRA SCT020 FEW040CB SCT100 25/21 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

SBLP/83289 EVENTO/EVENT 22 - 29/11/2001, 16:00 UTC (MSS - NCEI/NCDC)

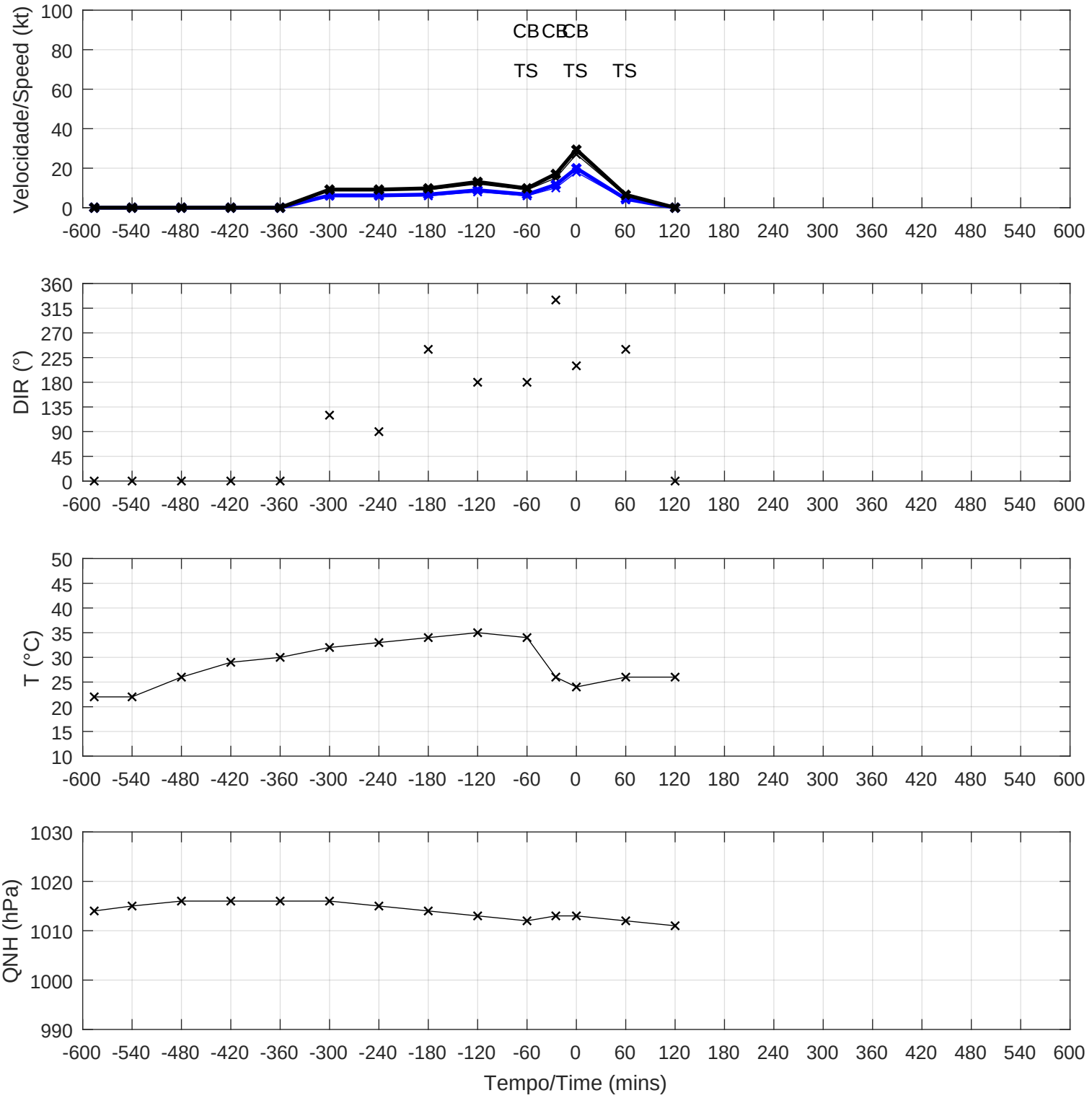
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G* = 27 kt	R_{-6} = 12.0	$T_{med,3}$ = 33.0 °C	DIR = 360°	NÃO/NO	SINÓTICO
V_{obs} = 18 kt	R_{-3} = 6.0	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = 30°		SYNOPTIC
G_V = [ ]	R_{+3} = 1.6	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 30°		(326)
G_{cor} = 29.4 kt	R_{+6} = 1.8	Δ Grupo/Group = 3	SBLP 291600Z 36018KT 9999 BKN030 36/20 Q1008=		
V_{cor} = 20.0 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

SBLP/83289 EVENTO/EVENT 23 - 15/03/2010, 19:00 UTC (MSS - REDEMET)

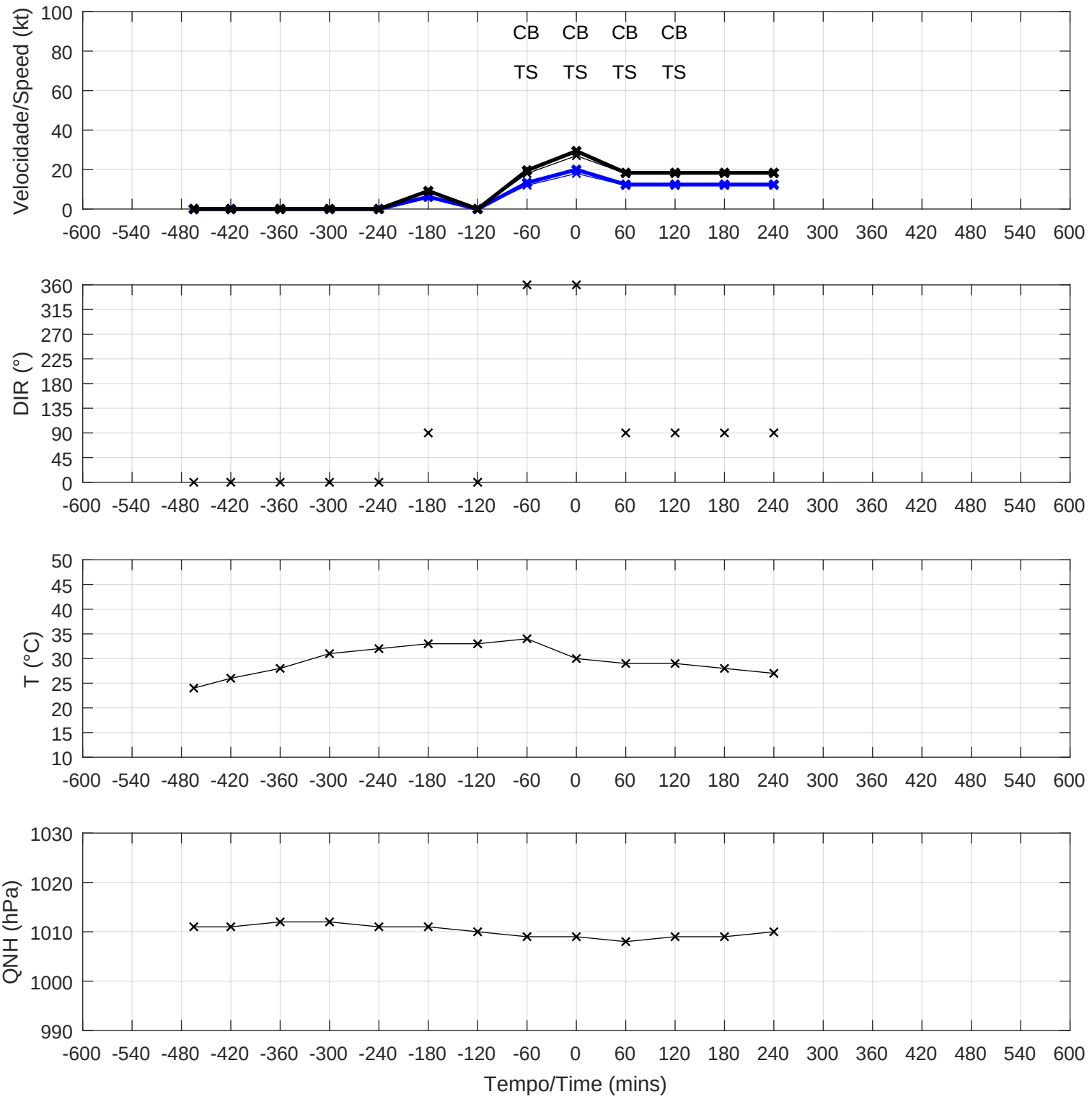
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G* = 27 kt	R_{-6} = 3.2	$T_{med,3}$ = 34.4 °C	DIR = 210°	SIM/YES	NÃO-SINÓTICO
V_{obs} = 18 kt	R_{-3} = 2.5	$\Delta T_{min,3}$ = -11.0 °C	$\Delta DIR_{max,-3}$ = 120°		NON-SYNOPTIC
G_V = [ ]	R_{+3} = 9.0	$\Delta Q_{max,3}$ = 1.0 hPa	$\Delta DIR_{max,+3}$ = 30°		(120)
G_{cor} = 29.4 kt	R_{+6} = [ ]	Δ Grupo/Group = 1	SBLP 151900Z 21018KT 6000 TSRA BKN030 FEW030CB BKN100 24/23 Q1013=		
V_{cor} = 20.0 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

SBLP/83289 EVENTO/EVENT 24 - 28/11/2010, 17:00 UTC (MSS - REDEMET)

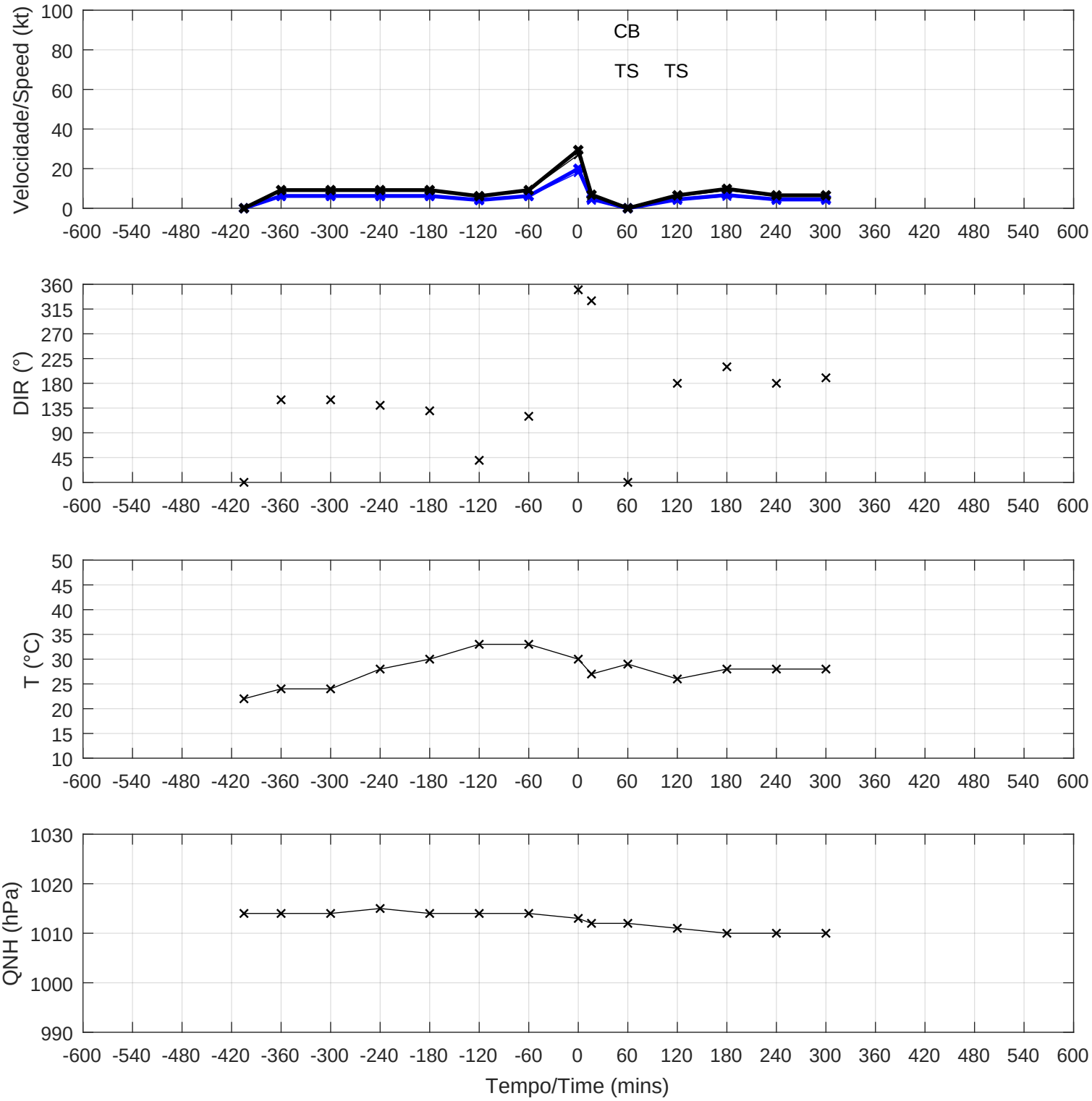
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G* = 27 kt	R_{-6} = 6.0	$T_{med,3}$ = 33.3 °C	DIR = 360°	SIM/YES	NÃO-SINÓTICO
V_{obs} = 18 kt	R_{-3} = 3.0	$\Delta T_{min,3}$ = -5.0 °C	$\Delta DIR_{max,-3}$ = 90°		NON-SYNOPTIC
G_V = [ ]	R_{+3} = 1.5	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 90°		(124)
G_{cor} = 29.4 kt	R_{+6} = 1.5	Δ Grupo/Group = 3	SBLP 281700Z 36018KT 9999 TS BKN030 FEW040CB 30/21 Q1009=		
V_{cor} = 20.0 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

SBLP/83289 EVENTO/EVENT 25 - 05/01/2011, 16:00 UTC (MSS - REDEMET)

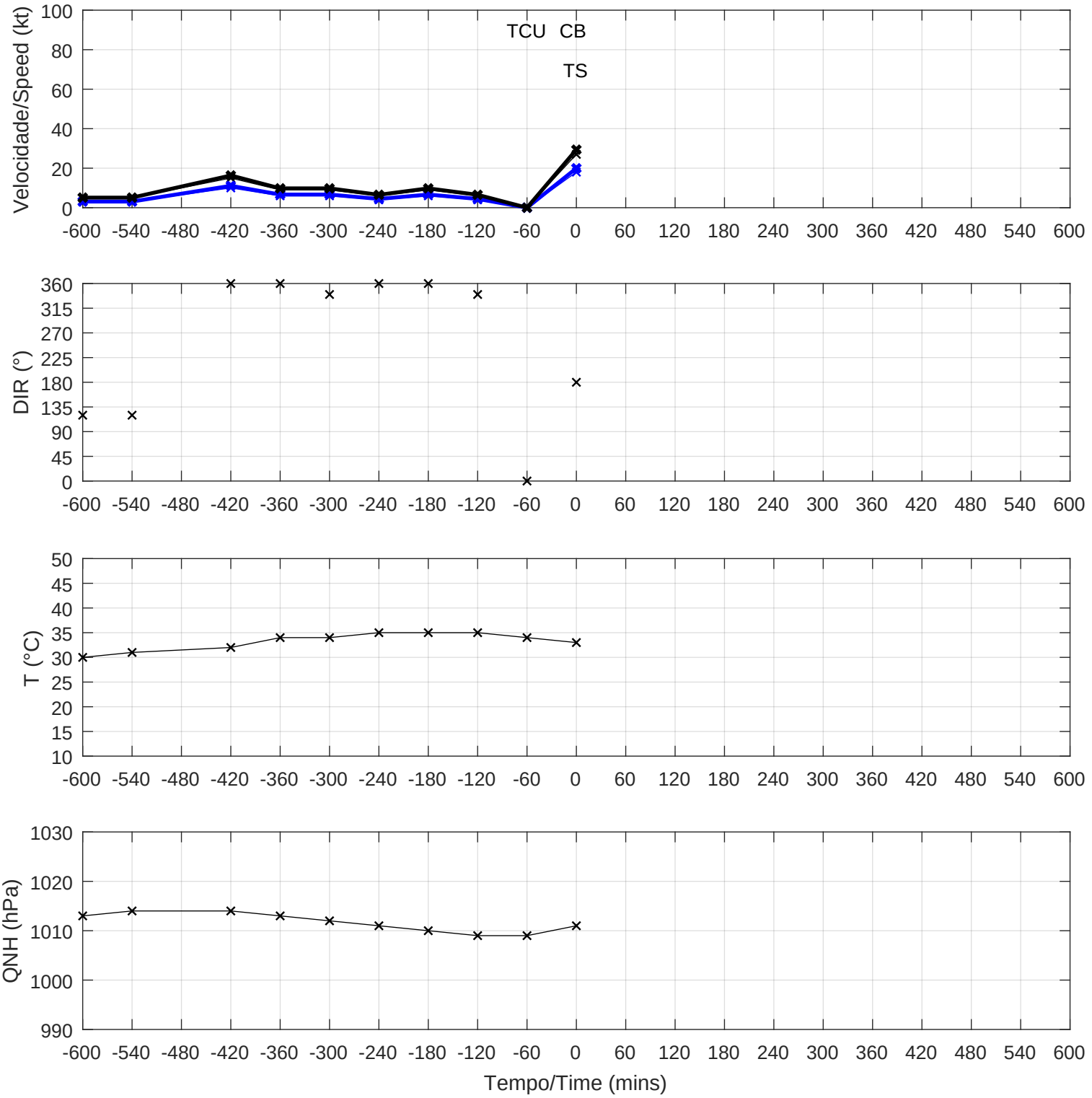
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G* = 27 kt	R_{-6} = 3.2	$T_{med,3}$ = 32.0 °C	DIR = 350°	SIM/YES	NÃO-SINÓTICO
V_{obs} = 18 kt	R_{-3} = 3.4	$\Delta T_{min,3}$ = -6.0 °C	$\Delta DIR_{max,-3}$ = 140°		NON-SYNOPTIC
G_V = [ ]	R_{+3} = 5.2	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 170°		(124)
G_{cor} = 29.4 kt	R_{+6} = 4.9	Δ Grupo/Group = 3	SBLP 051600Z 35018KT 5000 RA BKN030 BKN100 30/22 Q1013=		
V_{cor} = 20.0 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

SBLP/83289 EVENTO/EVENT 26 - 01/02/2013, 21:00 UTC (MSS - REDEMET)

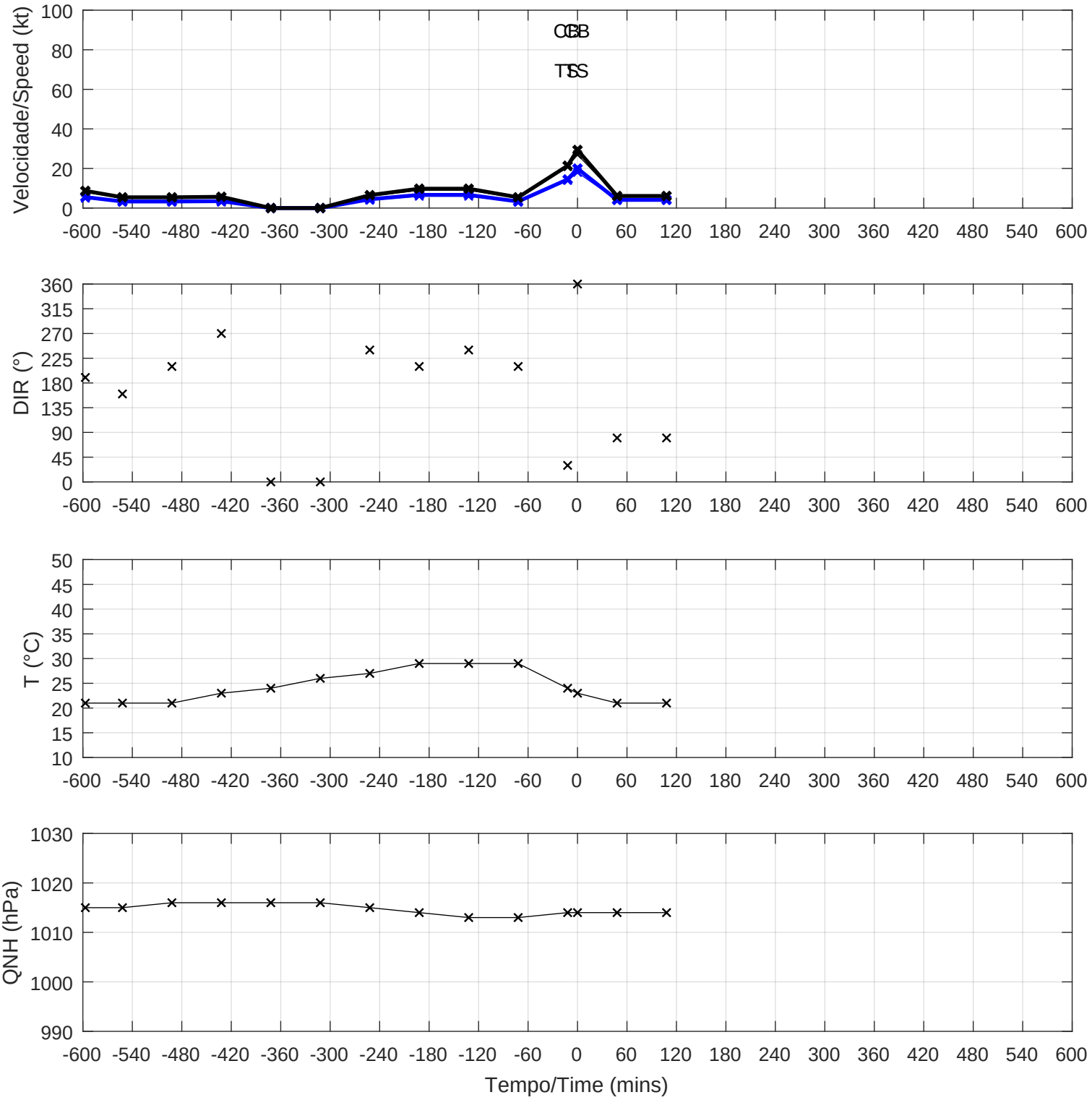
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G* = 27 kt	R_{-6} = 4.2	$T_{med,3}$ = 34.7 °C	DIR = 180°	SIM/YES	NÃO-SINÓTICO
V_{obs} = 18 kt	R_{-3} = 5.4	$\Delta T_{min,3}$ = -2.0 °C	$\Delta DIR_{max,-3}$ = 180°		NON-SYNOPTIC
G_V = [ ]	R_{+3} = [ ]	$\Delta Q_{max,3}$ = 2.0 hPa	$\Delta DIR_{max,+3}$ = [ ]		(120)
G_{cor} = 29.4 kt	R_{+6} = [ ]	Δ Grupo/Group = 2	METAR SBLP 012100Z 18018KT 9999 -TSRA FEW027 FEW040CB SCT100 33/18 Q1011=		
V_{cor} = 20.0 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

SBLP/83289 EVENTO/EVENT 27 - 27/12/2013, 19:12 UTC (MSS - REDEMET)

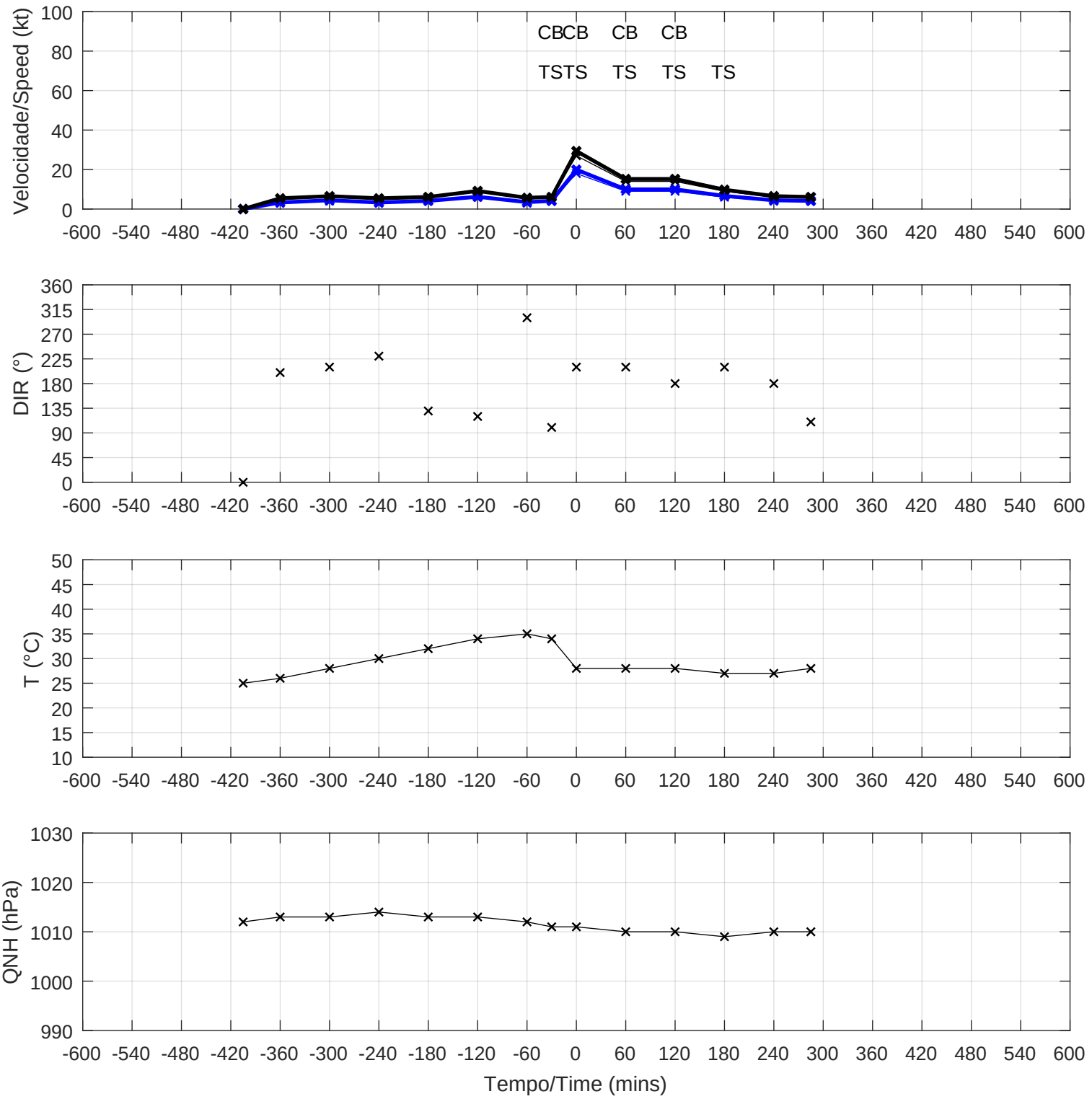
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G* = 27 kt	R_{-6} = 4.2	$T_{med,3}$ = 29.0 °C	DIR = 360°	SIM/YES	NÃO-SINÓTICO
V_{obs} = 18 kt	R_{-3} = 3.3	$\Delta T_{min,3}$ = -8.0 °C	$\Delta DIR_{max,-3}$ = 150°		NON-SYNOPTIC
G_V = [ ]	R_{+3} = 4.5	$\Delta Q_{max,3}$ = 1.0 hPa	$\Delta DIR_{max,+3}$ = 80°		(120)
G_{cor} = 29.4 kt	R_{+6} = [ ]	Δ Grupo/Group = 2	SPECI SBLP 271912Z 36018KT 3000 TSRA SCT030 FEW040CB BKN100 23/21 Q1014=		
V_{cor} = 20.0 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

SBLP/83289 EVENTO/EVENT 28 - 22/11/2015, 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* = 27 kt	R_{-6} = 4.4	$T_{med,3}$ = 33.4 °C	DIR = 210°	SIM/YES	NÃO-SINÓTICO
V_{obs} = 18 kt	R_{-3} = 4.0	$\Delta T_{min,3}$ = -7.0 °C	$\Delta DIR_{max,-3}$ = 110°		NON-SYNOPTIC
G_V = [ ]	R_{+3} = 2.2	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 30°		(120)
G_{cor} = 29.4 kt	R_{+6} = 2.7	Δ Grupo/Group = 2	METAR SBLP 221600Z 21018KT 9999 TS FEW030 FEW030CB SCT100 28/20 Q1011=		
V_{cor} = 20.0 kt					



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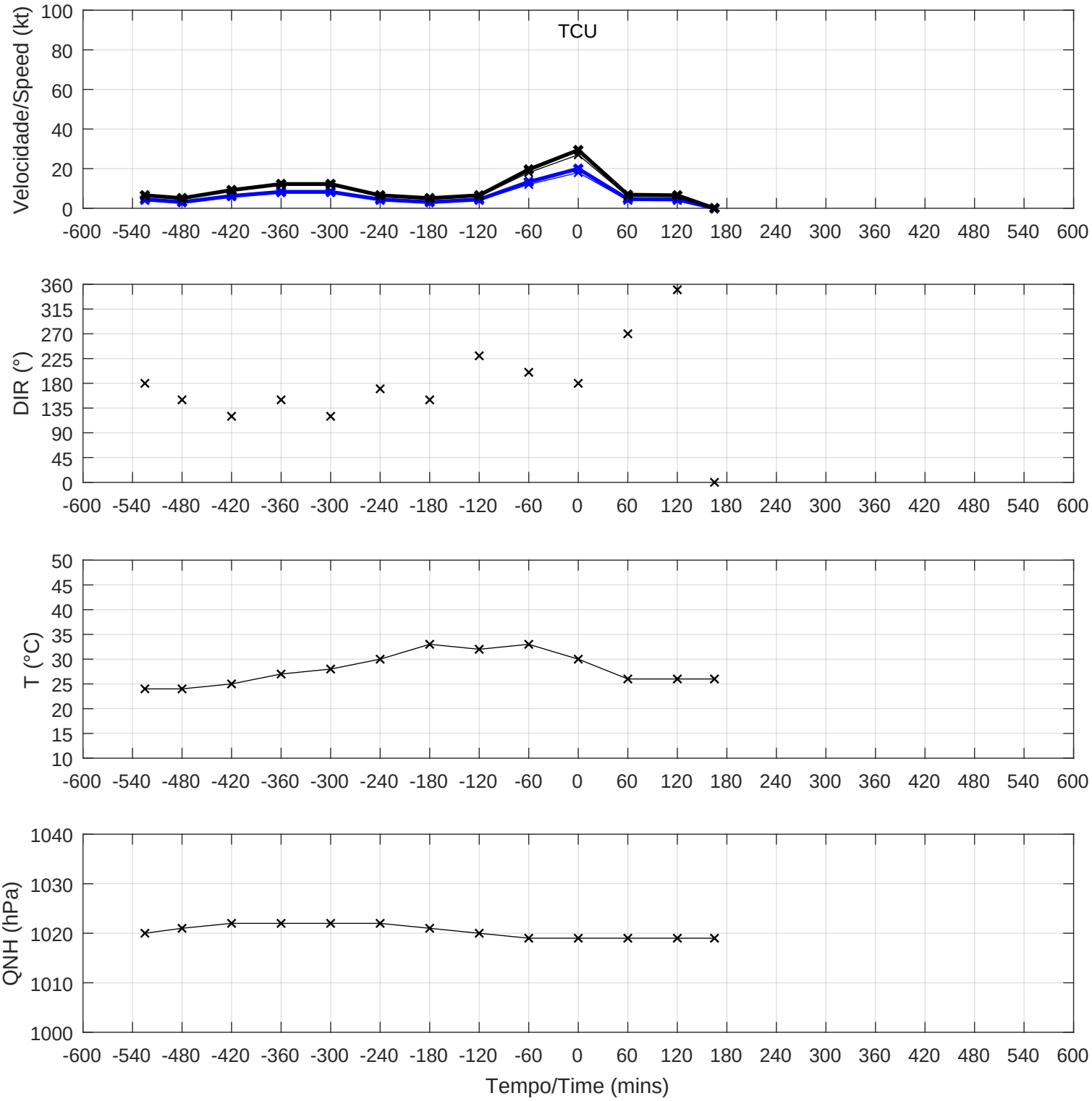
Modelo Climático para Ventos Extremos no Brasil/Brazilian Extreme Wind Climate

SBLP/83289 EVENTO/EVENT 29 - 13/06/2016, 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* = 27 kt	R_{-6} = 2.7	$T_{med,3}$ = 32.7 °C	DIR = 180°	NÃO/NO	NÃO-SINÓTICO
V_{obs} = 18 kt	R_{-3} = 2.8	$\Delta T_{min,3}$ = -7.0 °C	$\Delta DIR_{max,-3}$ = 50°		NON-SYNOPTIC
G_V = [ ]	R_{+3} = 7.1	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 170°		(321)
G_{cor} = 29.4 kt	R_{+6} = [ ]	Δ Grupo/Group = 2	METAR SBLP 131800Z 18018KT 9999 -RA SCT030 FEW040TCU SCT100 30/19 Q1019=		
V_{cor} = 20.0 kt					



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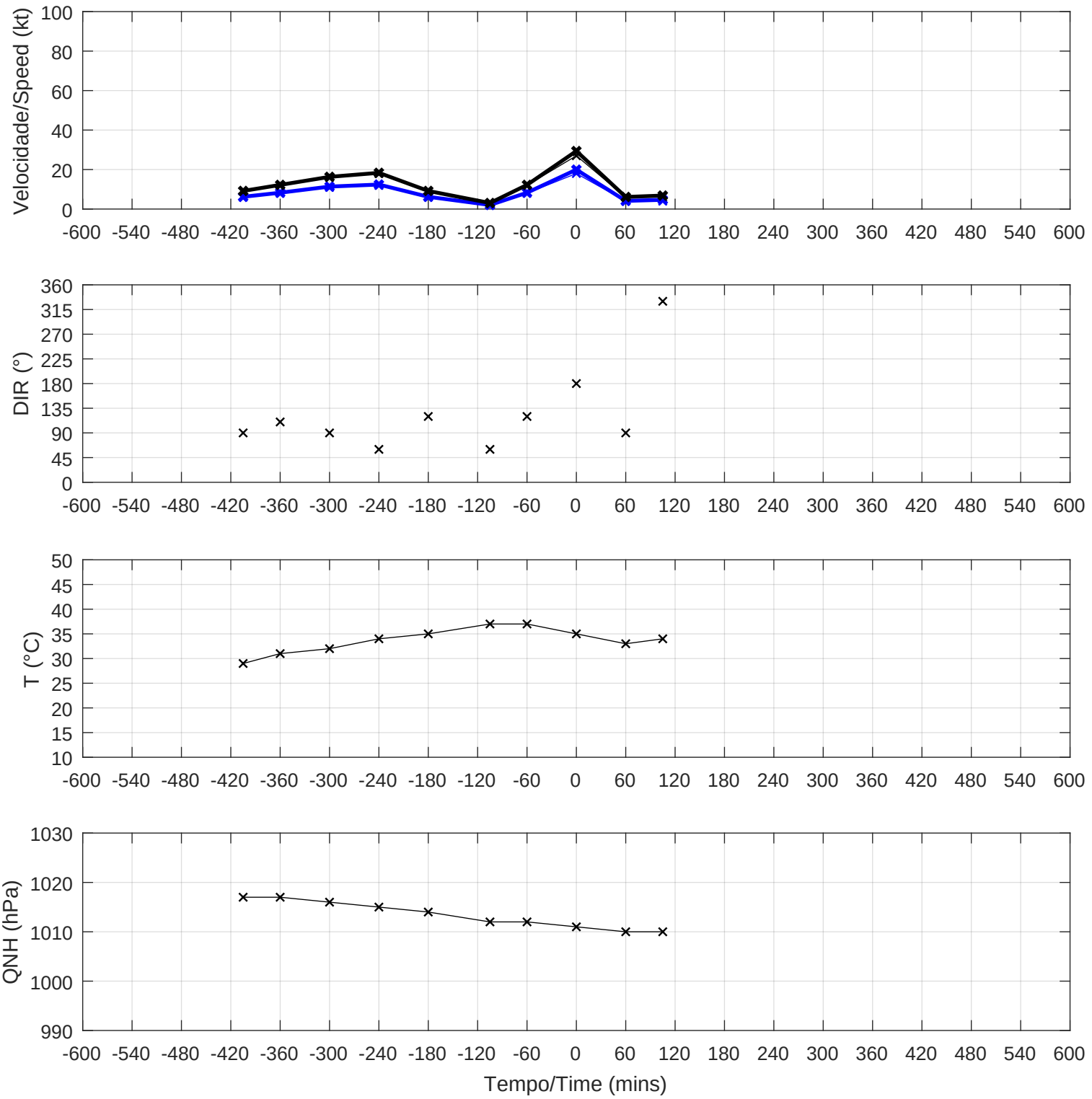
SBLP/83289 EVENTO/EVENT 30 - 03/10/2016, 18:00 UTC (MSS - REDEMET)

Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G* = 27 kt	R_{-6} = 2.2	$T_{med,3}$ = 36.3 °C	DIR = 180°	NÃO/NO	NÃO-SINÓTICO
V_{obs} = 18 kt	R_{-3} = 3.2	$\Delta T_{min,3}$ = -4.0 °C	$\Delta DIR_{max,-3}$ = 120°		NON-SYNOPTIC
G_V = [ ]	R_{+3} = 4.5	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 150°		(126)
G_{cor} = 29.4 kt	R_{+6} = [ ]	Δ Grupo/Group = 3	METAR SBLP 031800Z 18018KT 9999 -RA SCT020 BKN030 35/16 Q1011=		
V_{cor} = 20.0 kt					



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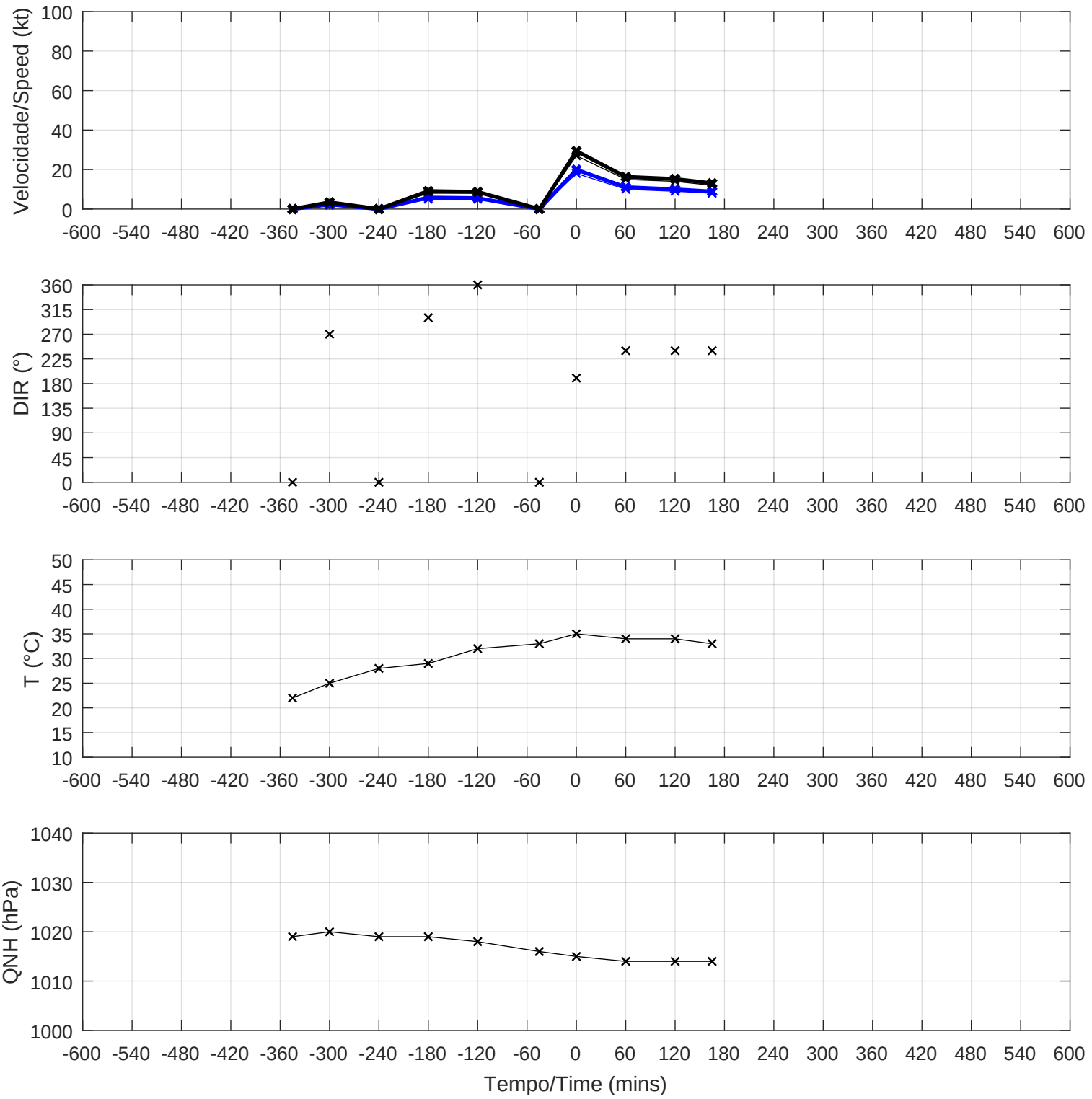
Modelo Climático para Ventos Extremos no Brasil/Brazilian Extreme Wind Climate

SBLP/83289 EVENTO/EVENT 31 - 09/08/2017, 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* = 27 kt	R_{-6} = 7.8	$T_{med,3}$ = 30.5 °C	DIR = 190°	NÃO/NO	SINÓTICO
V_{obs} = 18 kt	R_{-3} = 4.6	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = 170°		SYNOPTIC
G_V = [ ]	R_{+3} = 2.0	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 50°		(326)
G_{cor} = 29.4 kt	R_{+6} = [ ]	Δ Grupo/Group = 3	METAR SBLP 091700Z 19018KT CAVOK 35/07 Q1015=		
V_{cor} = 20.0 kt					



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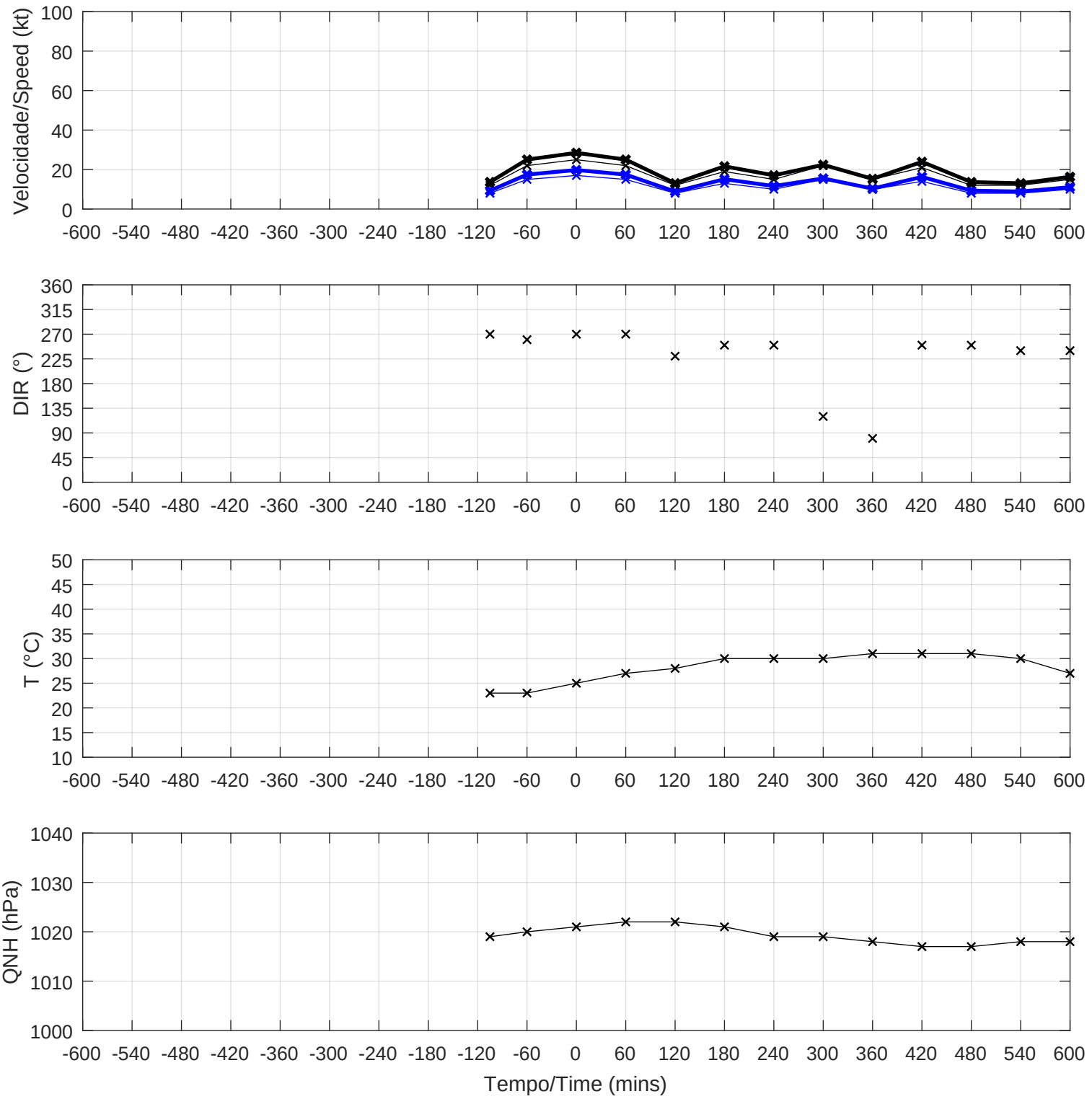
Modelo Climático para Ventos Extremos no Brasil/Brazilian Extreme Wind Climate

SBLP/83289 EVENTO/EVENT 32 - 06/08/2014, 11:00 UTC (MSS - WUNDERGROUND)

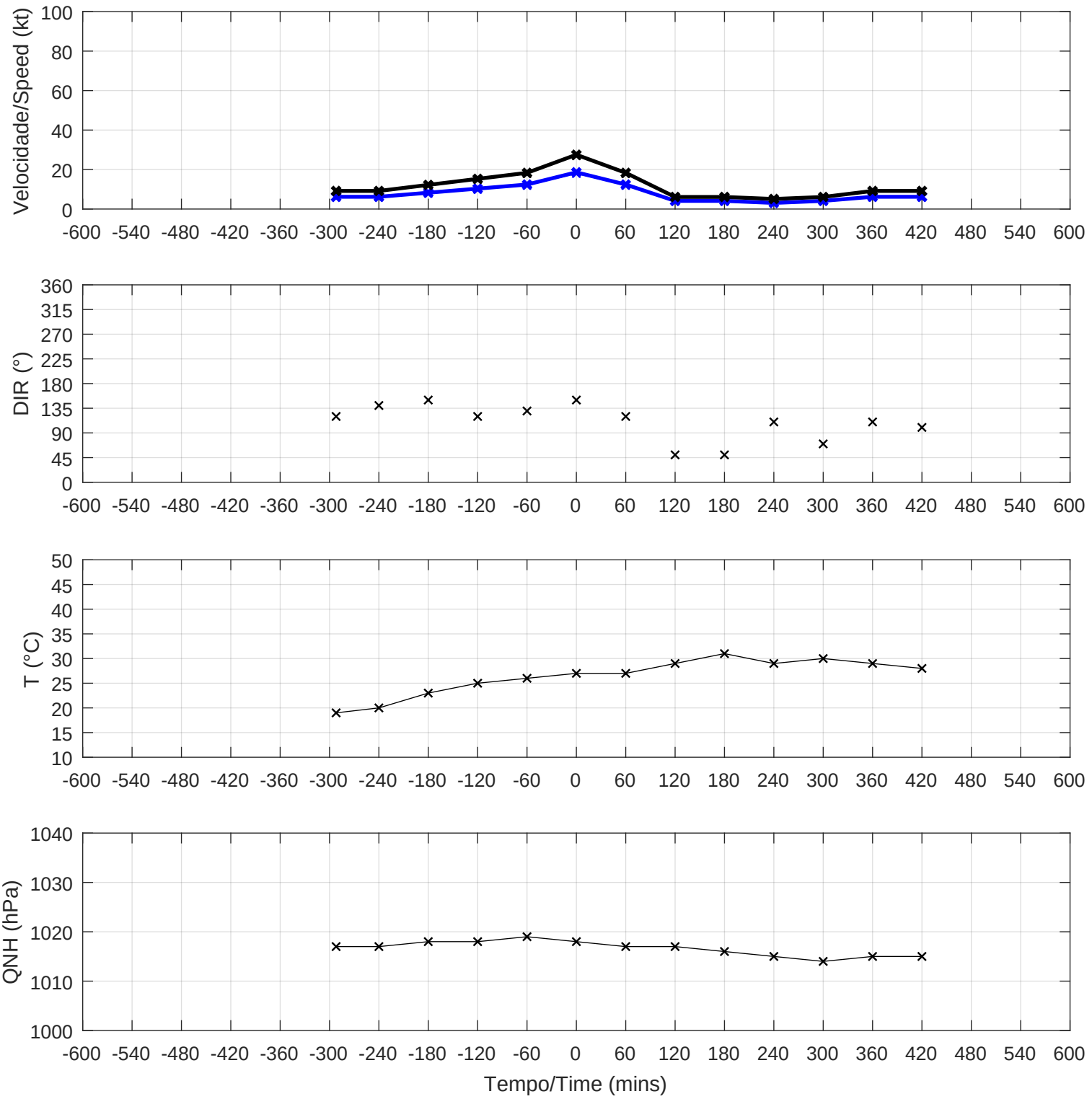
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G* = 25 kt	R_{-6} = [ ]	$T_{med,3}$ = 23.0 °C	DIR = 270°	NÃO/NO	SINÓTICO
V_{obs} = 17 kt	R_{-3} = 1.4	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = 10°		SYNOPTIC
G_V = [ ]	R_{+3} = 1.4	$\Delta Q_{max,3}$ = 3.0 hPa	$\Delta DIR_{max,+3}$ = 40°		(222)
G_{cor} = 28.5 kt	R_{+6} = 1.4	Δ Grupo/Group = 2	METAR SBLP 061100Z 27017KT CAVOK 25/14 Q1021		
V_{cor} = 19.8 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

SBLP/83289 EVENTO/EVENT 33 - 20/08/2008, 14:00 UTC (MSS - REDEMET)

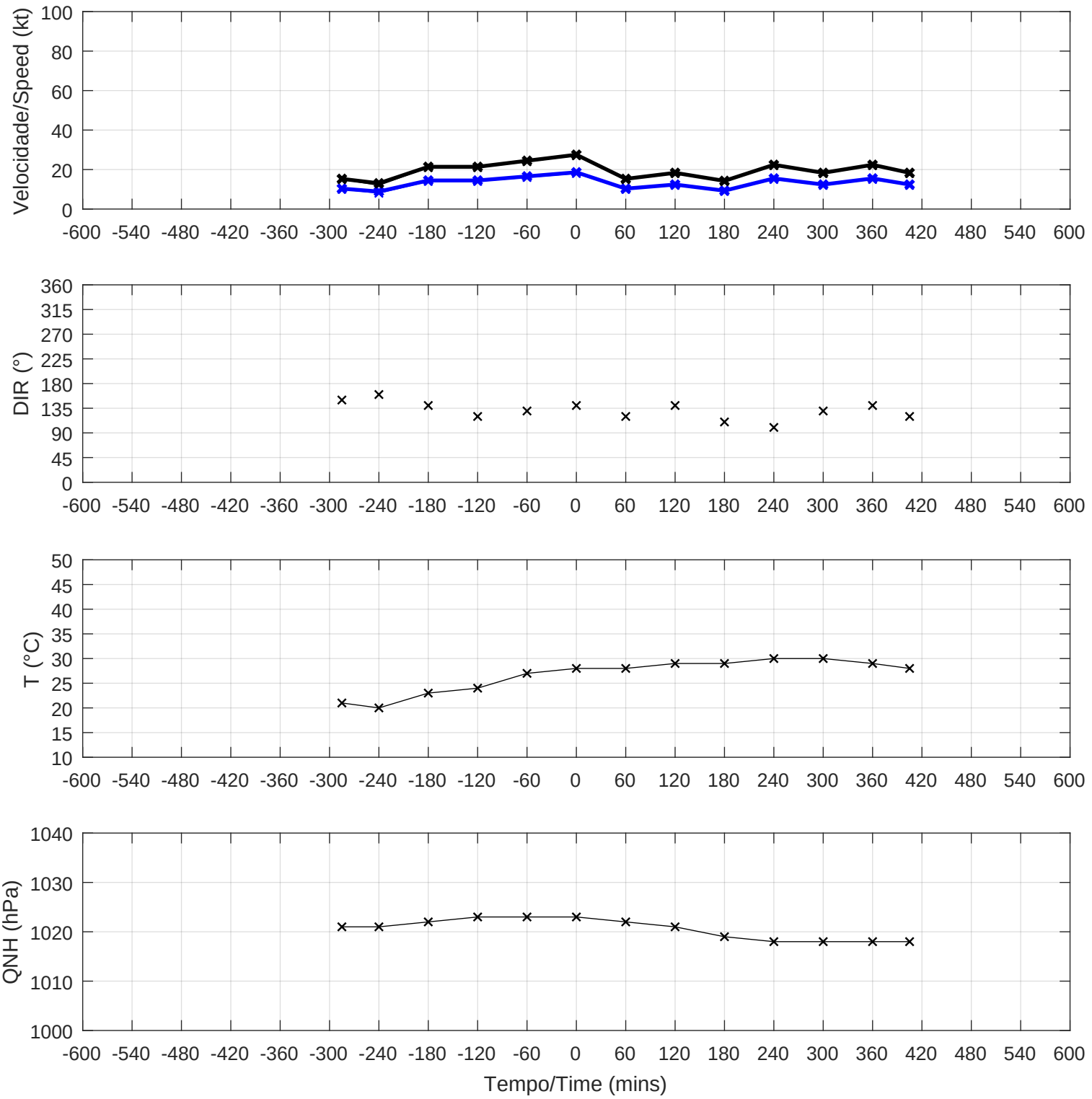
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G* = 27 kt	R_{-6} = 2.1	$T_{med,3}$ = 24.7 °C	DIR = 150°	NÃO/NO	SINÓTICO
V_{obs} = 18 kt	R_{-3} = 1.8	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = 30°		SYNOPTIC
G_V = [ ]	R_{+3} = 2.7	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 100°		(225)
G_{cor} = 27.5 kt	R_{+6} = 3.2	Δ Grupo/Group = 3	SBLP 201400Z 15018KT 9999 SCT030 27/14 Q1018=		
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

SBLP/83289 EVENTO/EVENT 40 - 11/08/2015, 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* = 27 kt	R_{-6} = 1.4	$T_{med,3}$ = 24.7 °C	DIR = 140°	NÃO/NO	SINÓTICO
V_{obs} = 18 kt	R_{-3} = 1.2	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = 20°		SYNOPTIC
G_V = [ ]	R_{+3} = 1.7	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 30°		(226)
G_{cor} = 27.5 kt	R_{+6} = 1.5	Δ Grupo/Group = 3	METAR SBLP 111400Z 14018KT 9999 FEW030 28/13 Q1023=		
V_{cor} = 18.6 kt					



Matthew Bruce Vallis (matthewbvallis@gmail.com) Tese de Doutorado/Doctorate Thesis, Porto Alegre: PPGEC/UFRGS, 2019
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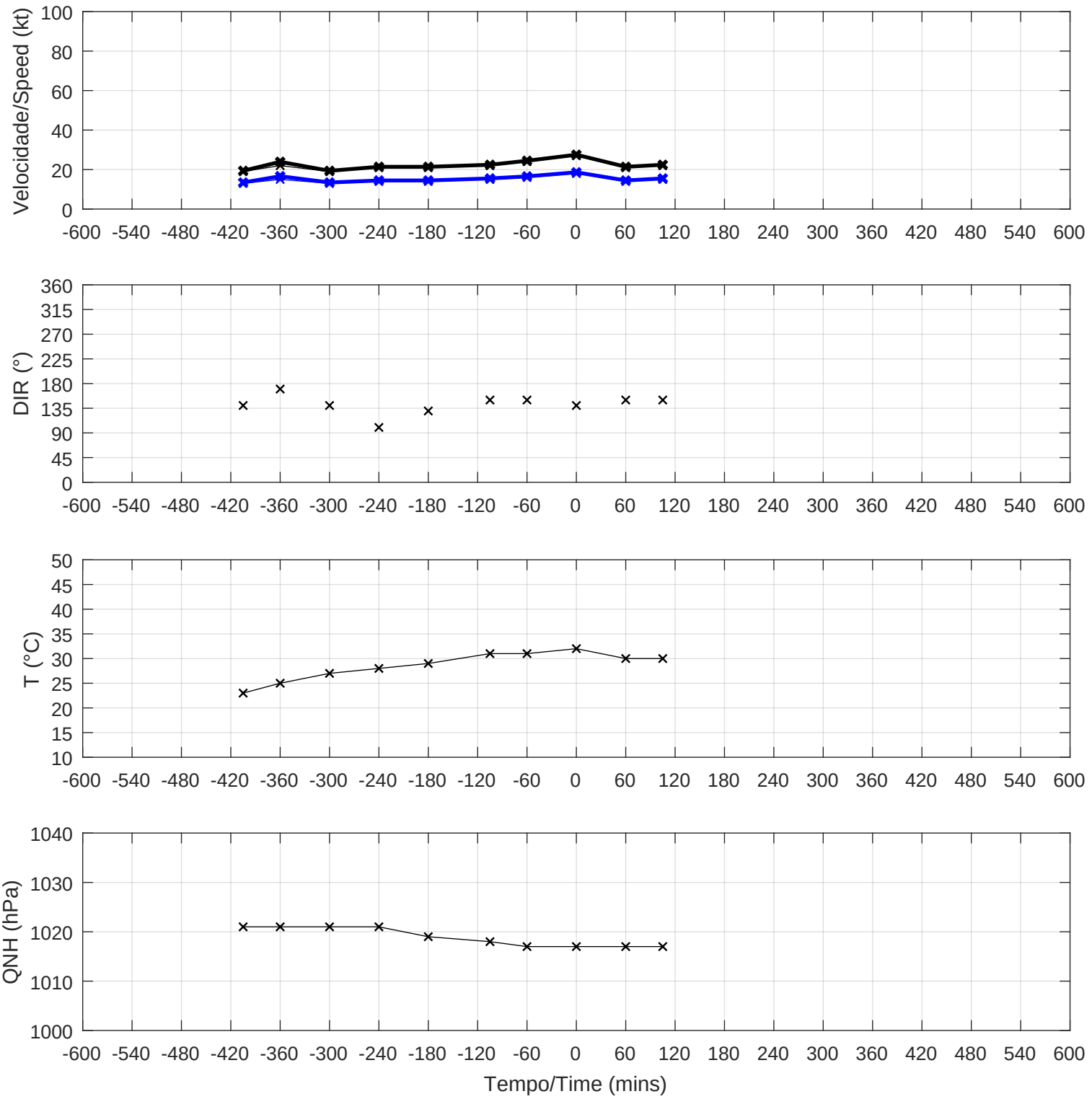
SBLP/83289 EVENTO/EVENT 42 - 23/08/2017, 18:00 UTC (MSS - REDEMET)

Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G* = 27 kt	R_{-6} = 1.3	$T_{med,3}$ = 30.3 °C	DIR = 140°	NÃO/NO	SINÓTICO
V_{obs} = 18 kt	R_{-3} = 1.2	$\Delta T_{min,3}$ = -2.0 °C	$\Delta DIR_{max,-3}$ = 10°		SYNOPTIC
G_V = [ ]	R_{+3} = 1.3	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 10°		(226)
G_{cor} = 27.5 kt	R_{+6} = [ ]	Δ Grupo/Group = 3	METAR SBLP 231800Z 14018KT 9999 FEW030 32/13 Q1017=		
V_{cor} = 18.6 kt					



Matthew Bruce Vallis (matthewbvallis@gmail.com) Tese de Doutorado/Doctorate Thesis, Porto Alegre: PPGEC/UFRGS, 2019
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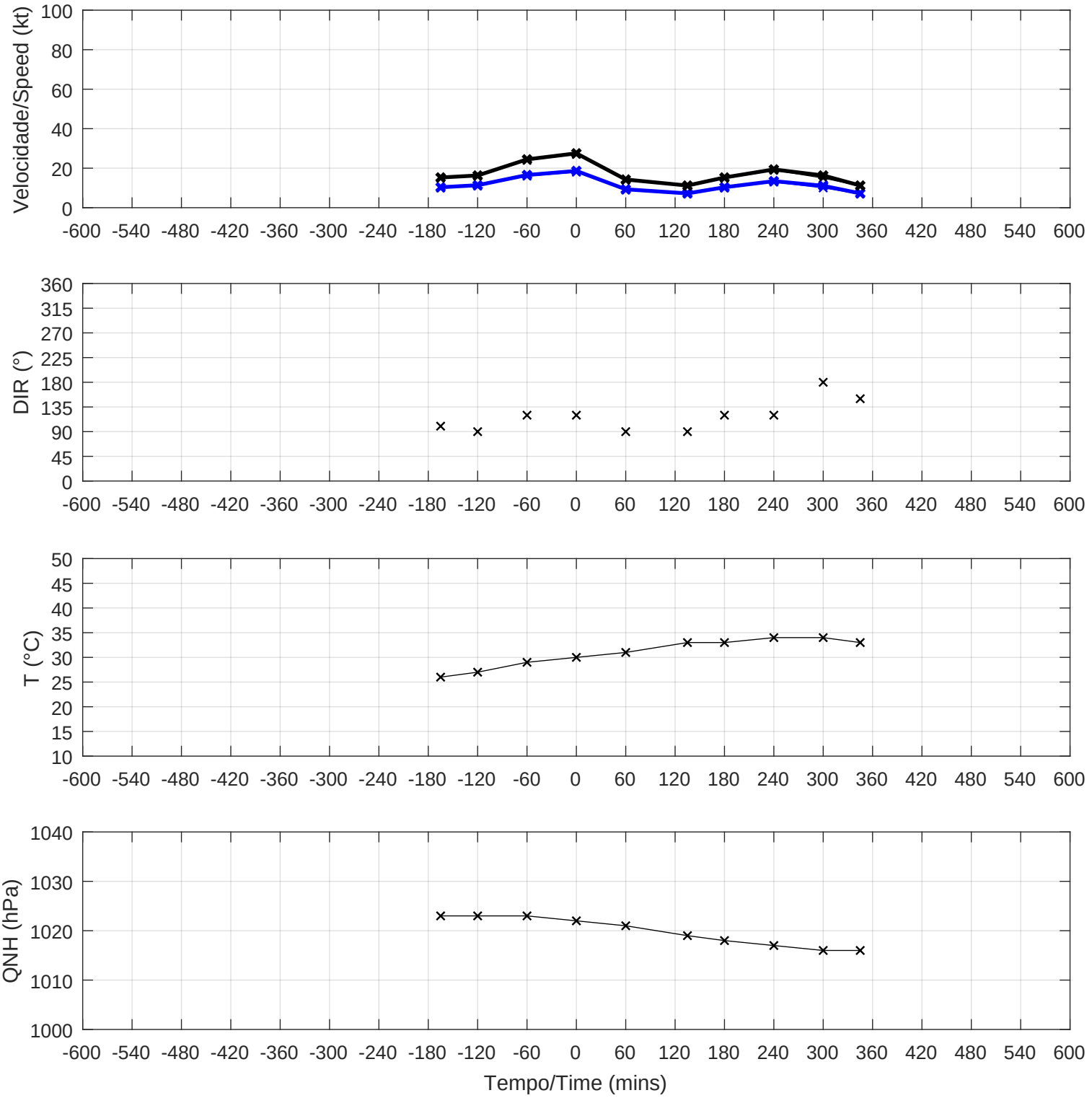
SBLP/83289 EVENTO/EVENT 43 - 14/09/2017, 14:00 UTC (MSS - REDEMET)

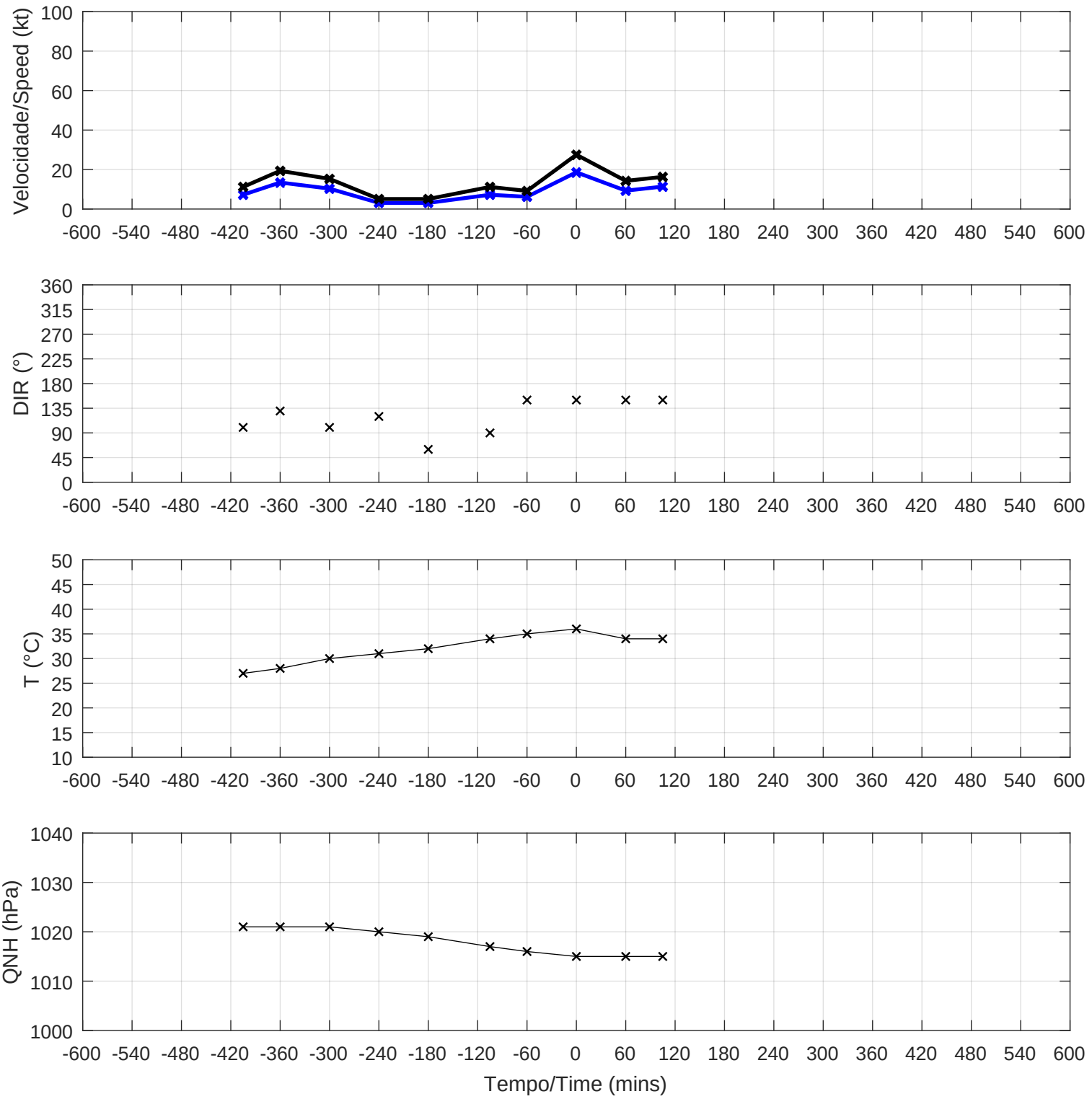
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G* = 27 kt	R_{-6} = [ ]	$T_{med,3}$ = 27.5 °C	DIR = 120°	NÃO/NO	SINÓTICO
V_{obs} = 18 kt	R_{-3} = 1.4	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = 30°		SYNOPTIC
G_V = [ ]	R_{+3} = 2.0	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 30°		(225)
G_{cor} = 27.5 kt	R_{+6} = 1.9	Δ Grupo/Group = 3	METAR SBLP 141400Z 12018KT 9999 FEW030 30/13 Q1022=		
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

SBLP/83289 EVENTO/EVENT 44 - 17/10/2017, 18:00 UTC (MSS - REDEMET)

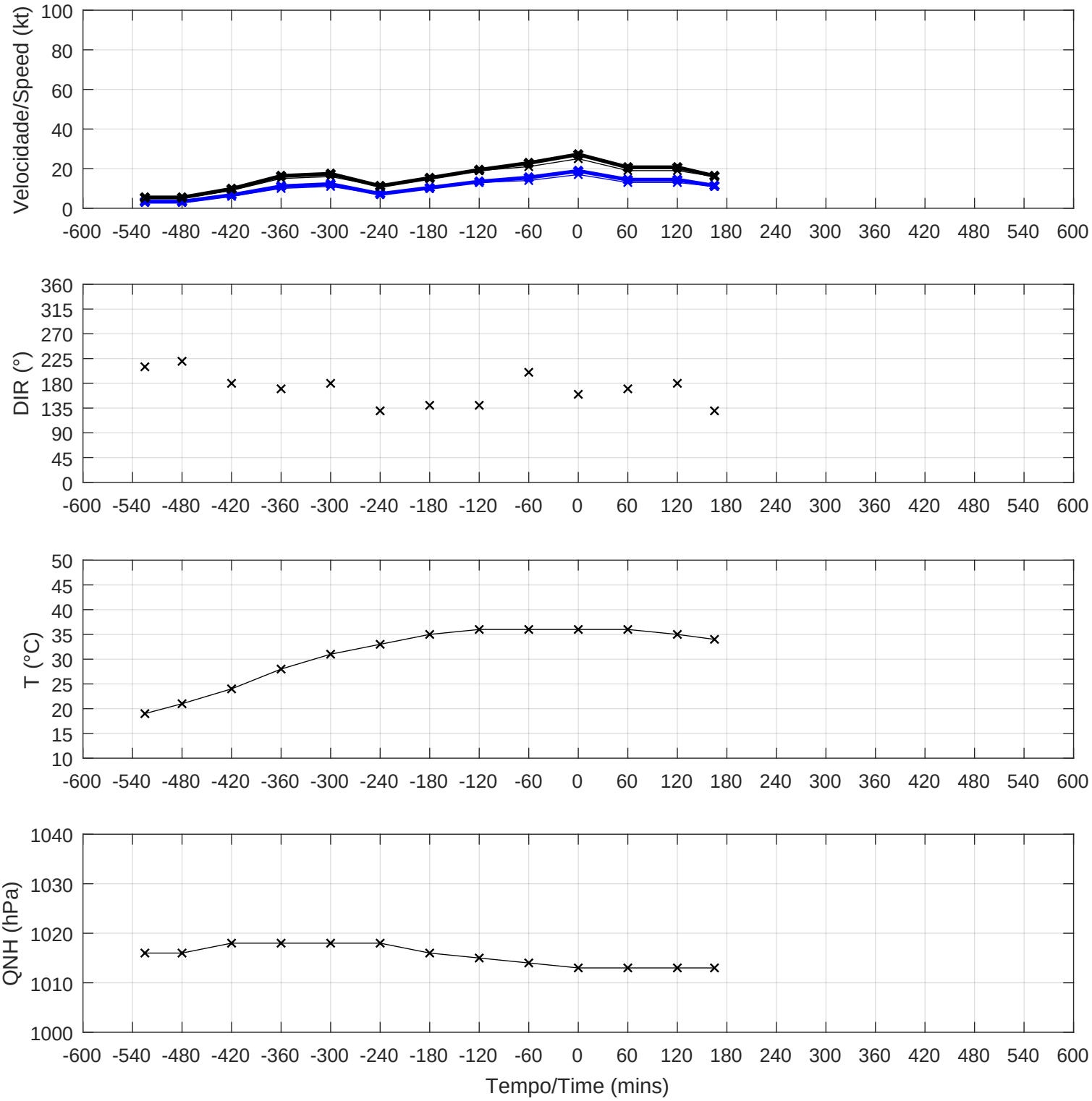
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G* = 27 kt	R_{-6} = 2.5	$T_{med,3}$ = 33.6 °C	DIR = 150°	NÃO/NO	SINÓTICO
V_{obs} = 18 kt	R_{-3} = 3.3	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = 90°		SYNOPTIC
G_V = [ ]	R_{+3} = 1.8	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 0°		(225)
G_{cor} = 27.5 kt	R_{+6} = [ ]	Δ Grupo/Group = 3	METAR SBLP 171800Z 15018KT CAVOK 36/11 Q1015=		
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

SBLP/83289 EVENTO/EVENT 46 - 28/08/2015, 18:00 UTC (MSS - REDEMET)

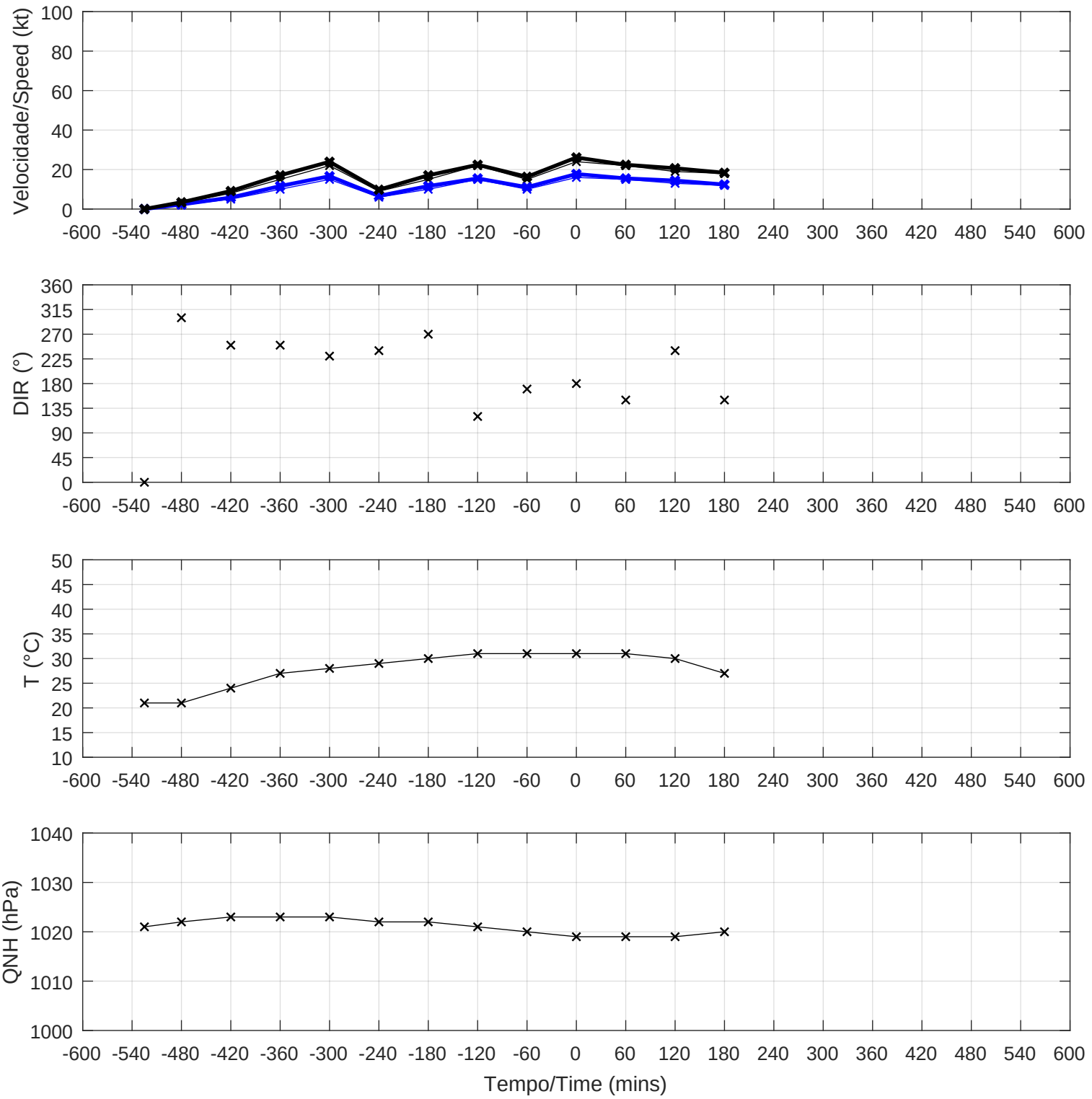
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G* = 25 kt	R_{-6} = 1.5	$T_{med,3}$ = 35.7 °C	DIR = 160°	NÃO/NO	SINÓTICO
V_{obs} = 17 kt	R_{-3} = 1.4	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = 40°		SYNOPTIC
G_V = [ ]	R_{+3} = 1.4	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 30°		(226)
G_{cor} = 27.2 kt	R_{+6} = [ ]	Δ Grupo/Group = 3	METAR SBLP 281800Z 16017KT CAVOK 36/09 Q1013=		
V_{cor} = 18.8 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

SBLP/83289 EVENTO/EVENT 47 - 29/07/2014, 18:00 UTC (MSS - REDEMET)

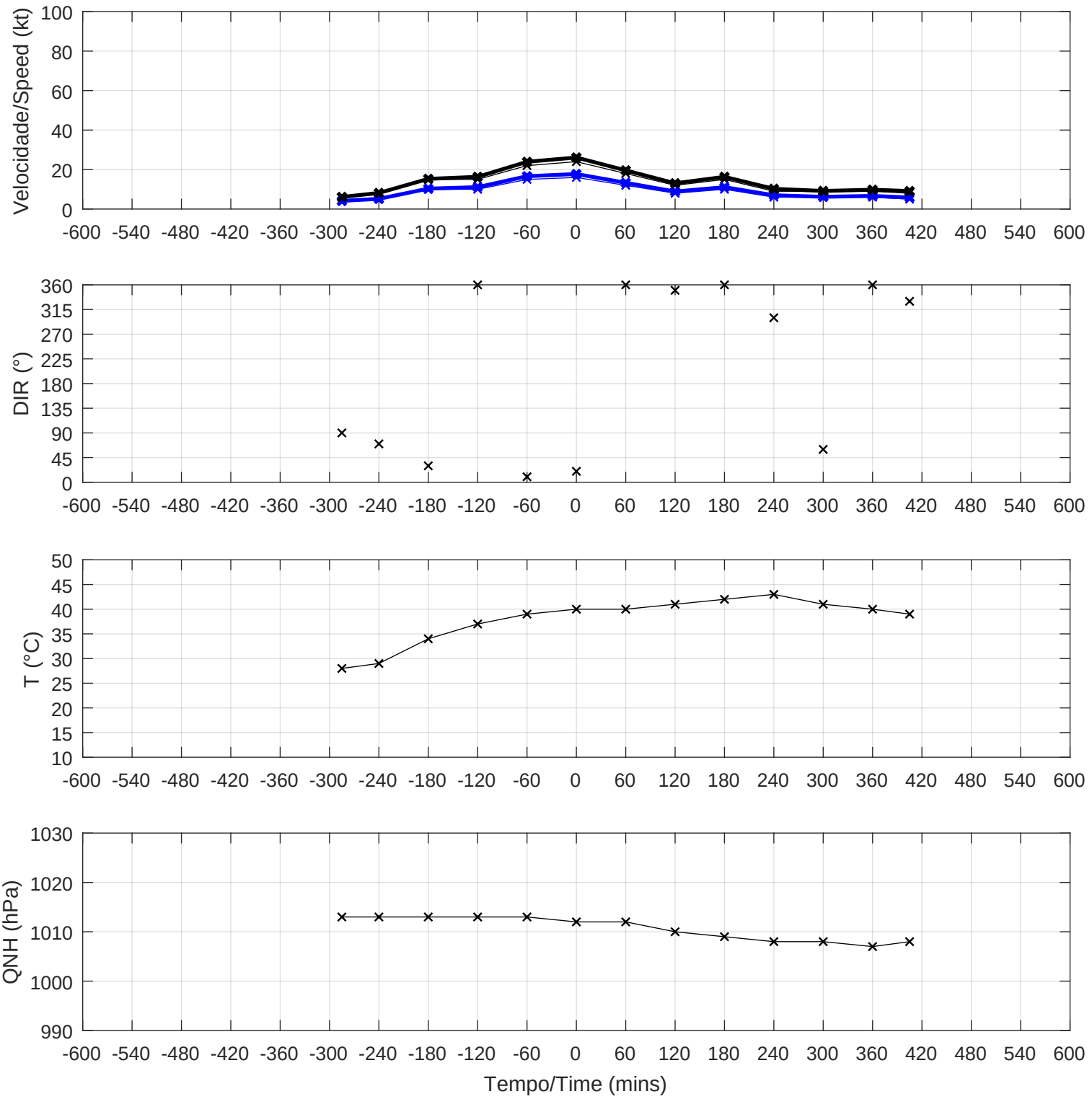
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G* = 24 kt	R_{-6} = 1.5	$T_{med,3}$ = 30.7 °C	DIR = 180°	NÃO/NO	SINÓTICO
V_{obs} = 16 kt	R_{-3} = 1.4	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = 90°		SYNOPTIC
G_V = [ ]	R_{+3} = 1.2	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 60°		(226)
G_{cor} = 26.1 kt	R_{+6} = [ ]	Δ Grupo/Group = 3	METAR SBLP 291800Z 18016KT 9999 BKN030 31/14 Q1019=		
V_{cor} = 17.7 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

SBLP/83289 EVENTO/EVENT 49 - 14/11/2015, 14:00 UTC (MSS - REDEMET)

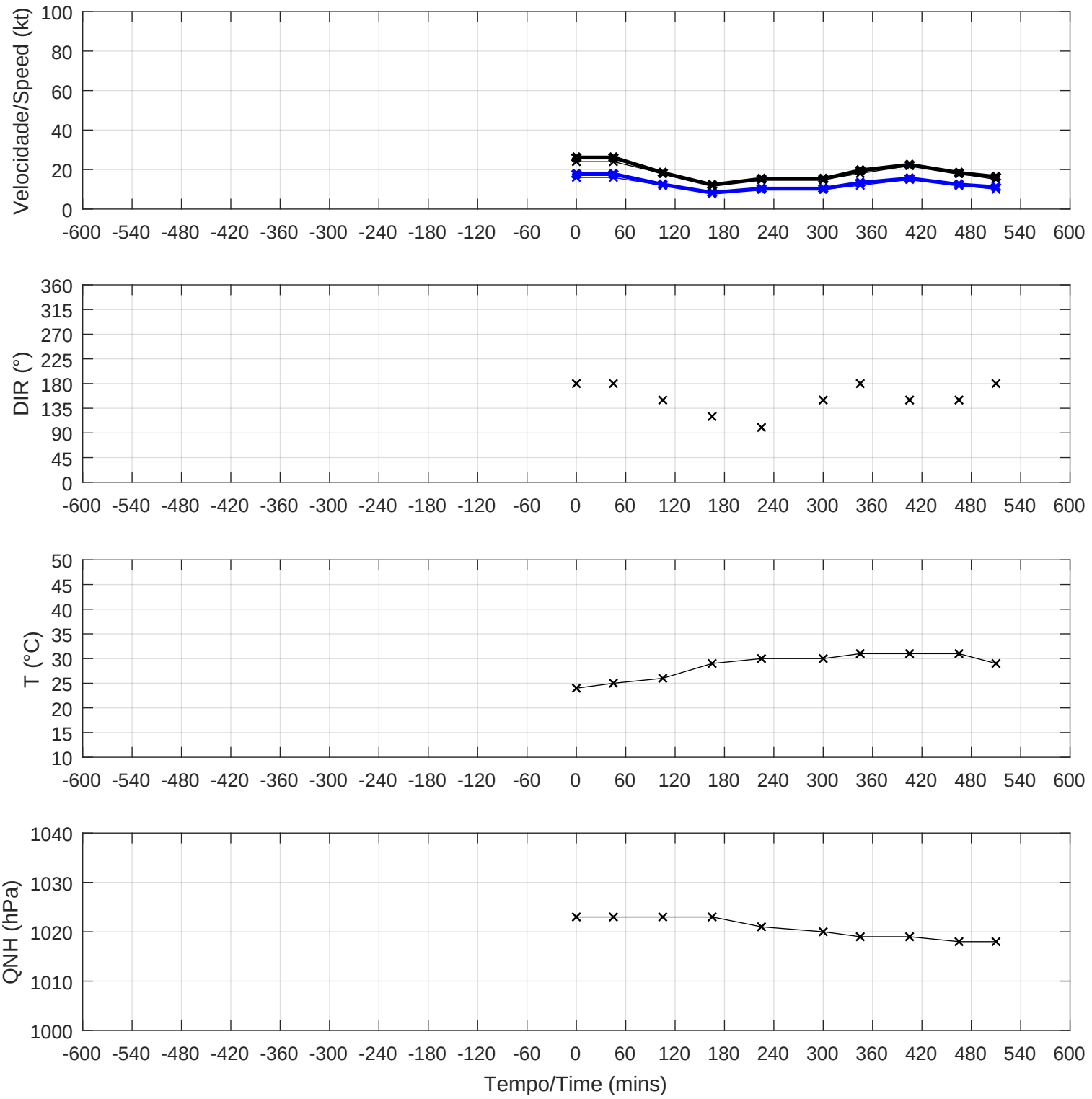
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G* = 24 kt	R_{-6} = 1.8	$T_{med,3}$ = 36.7 °C	DIR = 20°	NÃO/NO	SINÓTICO
V_{obs} = 16 kt	R_{-3} = 1.4	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = 20°		SYNOPTIC
G_V = [ ]	R_{+3} = 1.6	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 30°		(226)
G_{cor} = 26.1 kt	R_{+6} = 2.0	Δ Grupo/Group = 3	METAR SBLP 141400Z 02016KT CAVOK 40/11 Q1012=		
V_{cor} = 17.7 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

SBLP/83289 EVENTO/EVENT 51 - 13/07/2017, 11:15 UTC (MSS - REDEMET)

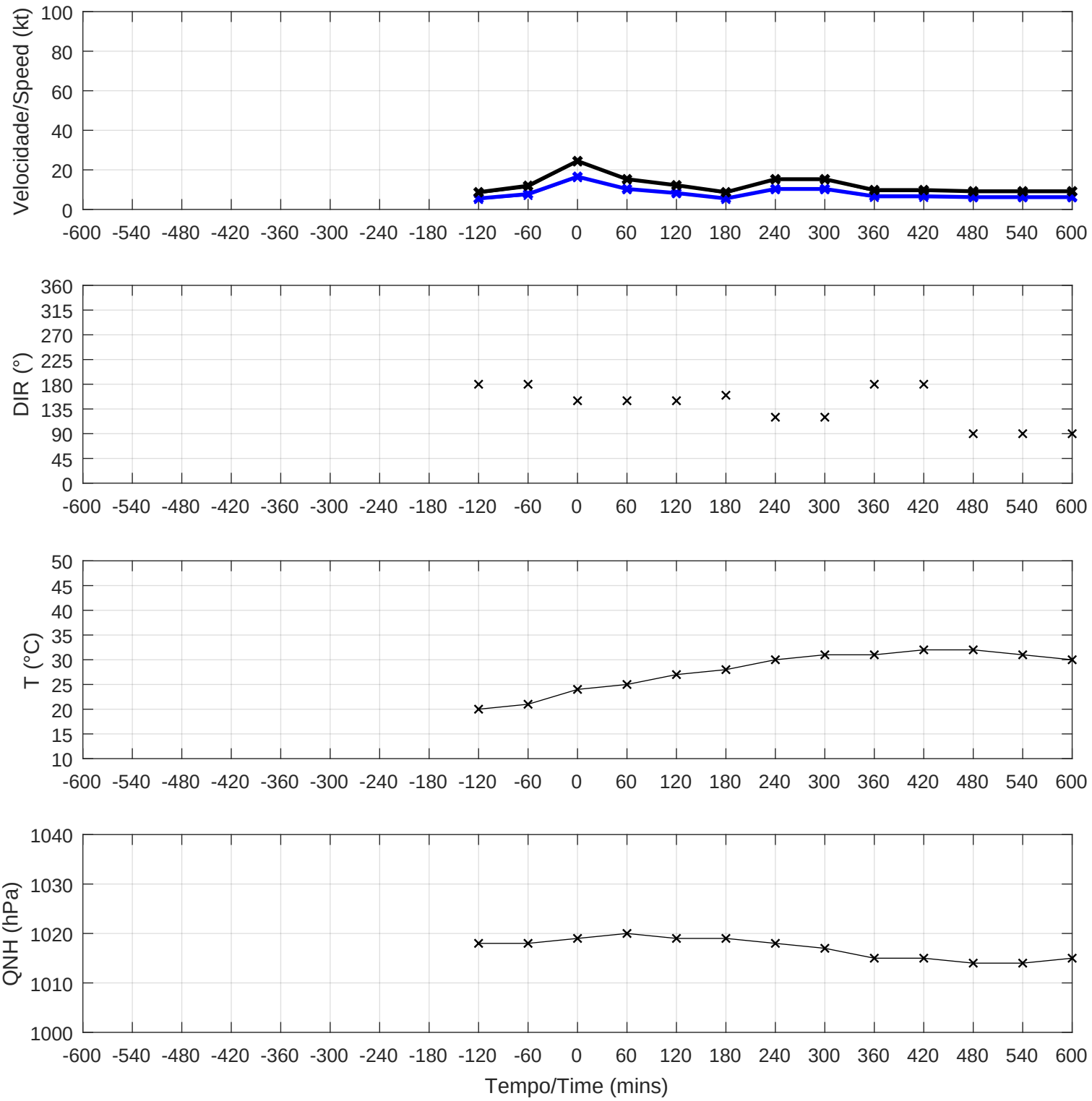
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G* = 24 kt	R_{-6} = [ ]	$T_{med,3}$ = [ ]	DIR = 180°	NÃO/NO	SINÓTICO
V_{obs} = 16 kt	R_{-3} = [ ]	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = [ ]		SYNOPTIC
G_V = [ ]	R_{+3} = 1.3	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 60°		(226)
G_{cor} = 26.1 kt	R_{+6} = 1.4	Δ Grupo/Group = 3	SPECI SBLP 131115Z 18016KT 9999 FEW030 24/16 Q1023=		
V_{cor} = 17.7 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

SBLP/83289 EVENTO/EVENT 59 - 16/05/2003, 11:00 UTC (MSS - REDEMET)

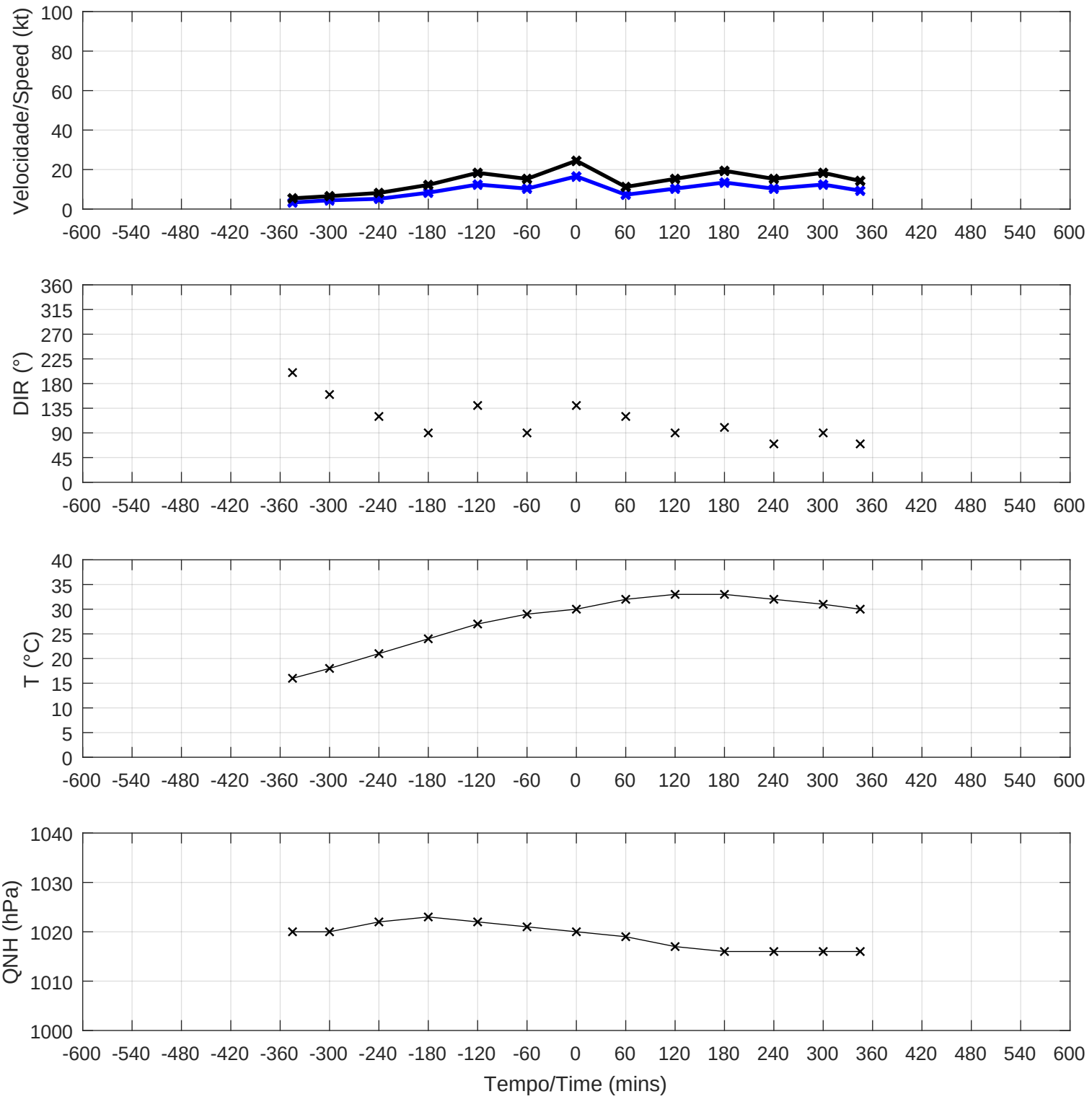
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G* = 24 kt	R_{-6} = [ ]	$T_{med,3}$ = 20.5 °C	DIR = 150°	NÃO/NO	SINÓTICO
V_{obs} = 16 kt	R_{-3} = 2.5	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = 30°		SYNOPTIC
G_V = [ ]	R_{+3} = 2.1	$\Delta Q_{max,3}$ = 2.0 hPa	$\Delta DIR_{max,+3}$ = 10°		(225)
G_{cor} = 24.5 kt	R_{+6} = 1.9	Δ Grupo/Group = 3	SBLP 161100Z 15016KT 9999 SCT030 24/17 Q1019=		
V_{cor} = 16.5 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

SBLP/83289 EVENTO/EVENT 62 - 17/08/2015, 15:00 UTC (MSS - REDEMET)

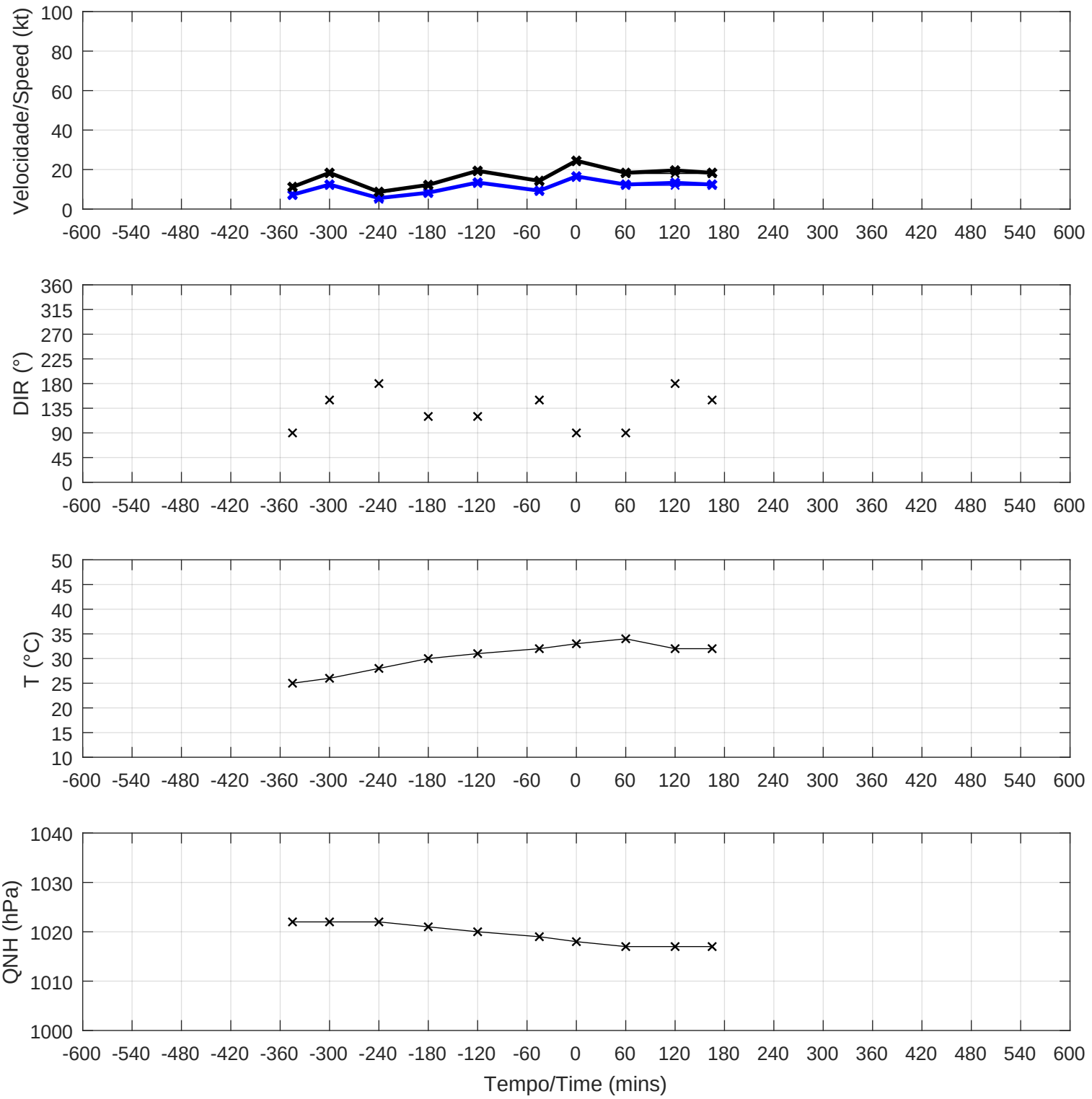
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G* = 24 kt	R_{-6} = 2.2	$T_{med,3}$ = 26.7 °C	DIR = 140°	NÃO/NO	SINÓTICO
V_{obs} = 16 kt	R_{-3} = 1.6	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = 50°		SYNOPTIC
G_V = [ ]	R_{+3} = 1.6	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 50°		(226)
G_{cor} = 24.5 kt	R_{+6} = 1.6	Δ Grupo/Group = 3	METAR SBLP 171500Z 14016KT 9999 FEW030 30/08 Q1020=		
V_{cor} = 16.5 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

SBLP/83289 EVENTO/EVENT 65 - 01/09/2017, 17:00 UTC (MSS - REDEMET)

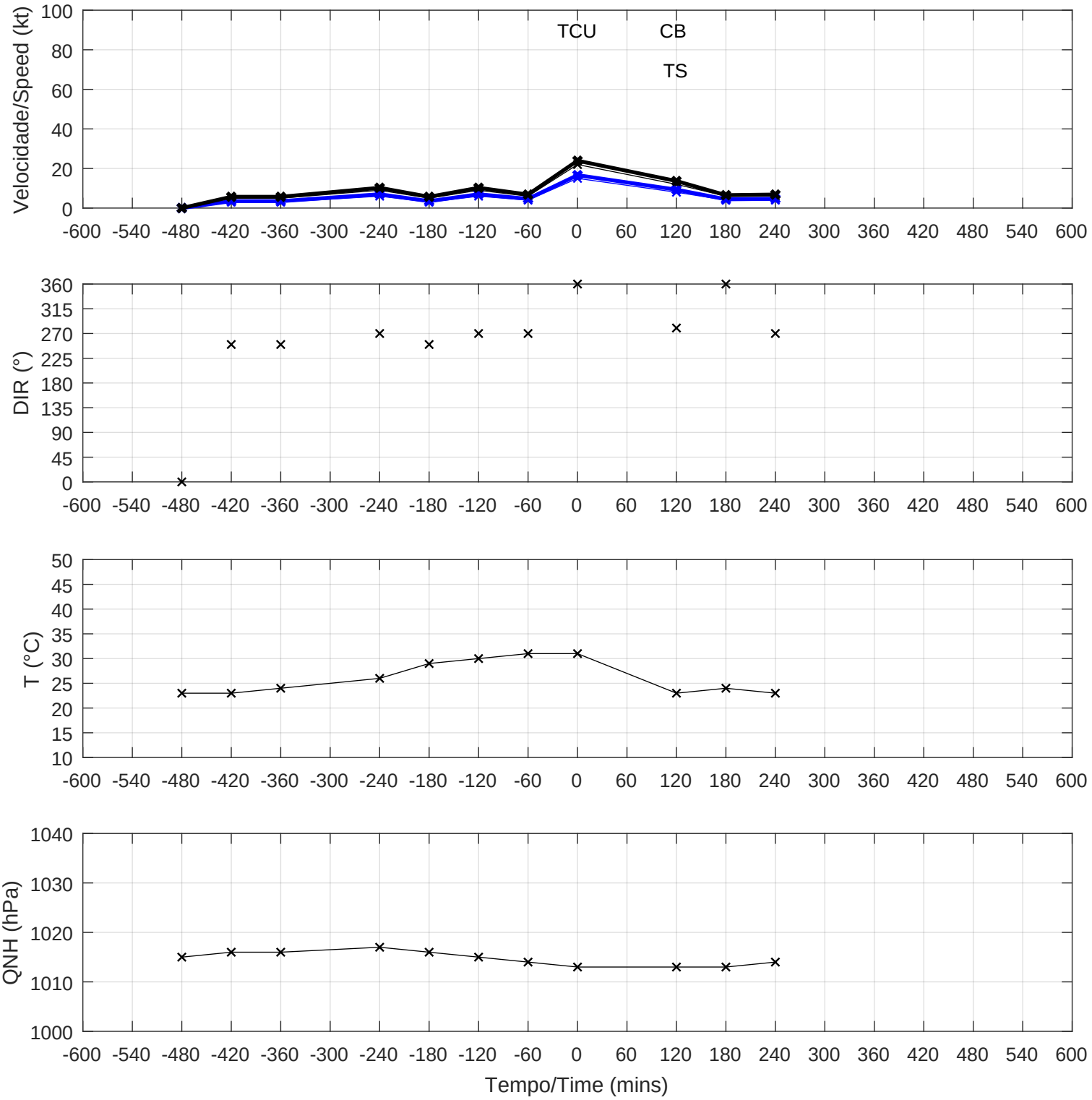
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G* = 24 kt	R_{-6} = 1.7	$T_{med,3}$ = 30.5 °C	DIR = 90°	NÃO/NO	SINÓTICO
V_{obs} = 16 kt	R_{-3} = 1.6	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = 60°		SYNOPTIC
G_V = [ ]	R_{+3} = 1.3	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 90°		(226)
G_{cor} = 24.5 kt	R_{+6} = [ ]	Δ Grupo/Group = 3	METAR SBLP 011700Z 09016KT CAVOK 33/11 Q1018=		
V_{cor} = 16.5 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

SBLP/83289 EVENTO/EVENT 67 - 21/12/2000, 17:00 UTC (MSS - NCEI/NCDC)

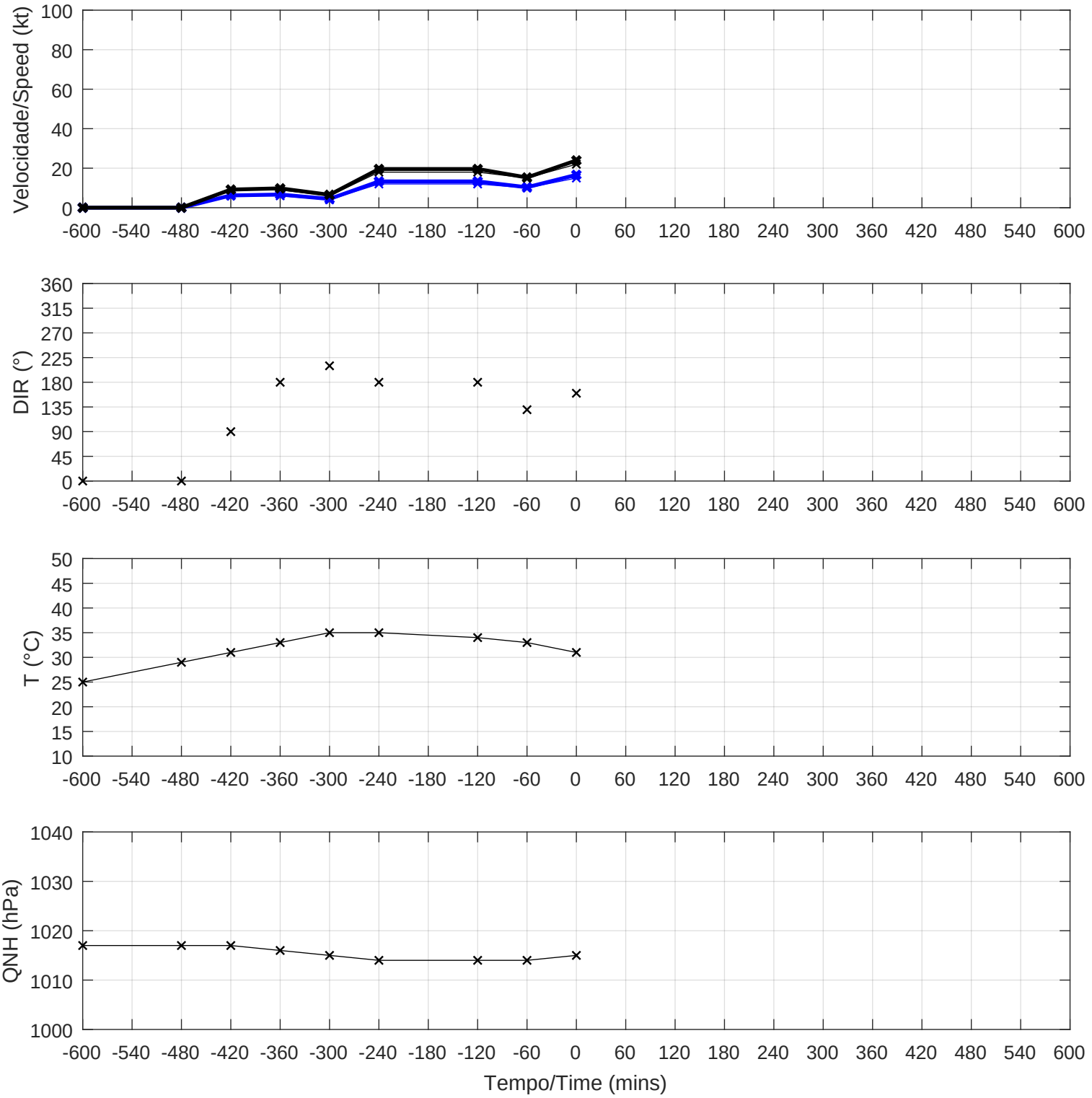
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G* = 22 kt	R_{-6} = 3.2	$T_{med,3}$ = 30.0 °C	DIR = 360°	NÃO/NO	SINÓTICO
V_{obs} = 15 kt	R_{-3} = 3.3	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = 110°		SYNOPTIC
G_V = [ ]	R_{+3} = 2.4	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 80°		(225)
G_{cor} = 23.9 kt	R_{+6} = 2.8	Δ Grupo/Group = 3	SBLP 211700Z 36015KT 8000 VCSH BKN030 FEW040TCU BKN300 31/23 Q1 013=		
V_{cor} = 16.6 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

SBLP/83289 EVENTO/EVENT 68 - 23/07/2001, 21:00 UTC (MSS - NCEI/NCDC)

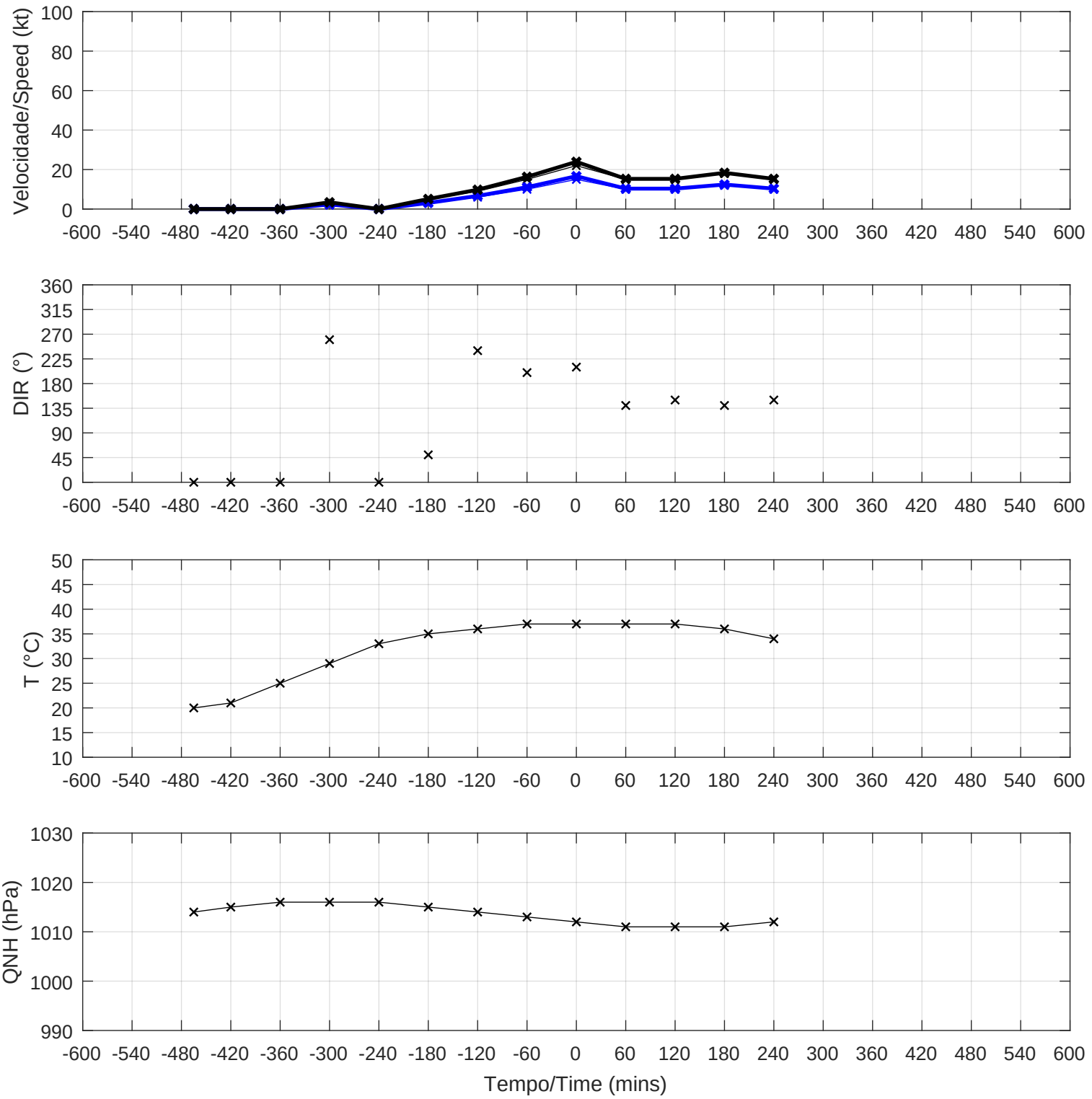
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G* = 22 kt	R_{-6} = 1.7	$T_{med,3}$ = 33.5 °C	DIR = 160°	NÃO/NO	SINÓTICO
V_{obs} = 15 kt	R_{-3} = 1.3	$\Delta T_{min,3}$ = -3.0 °C	$\Delta DIR_{max,-3}$ = 30°		SYNOPTIC
G_V = [ ]	R_{+3} = [ ]	$\Delta Q_{max,3}$ = 1.0 hPa	$\Delta DIR_{max,+3}$ = [ ]		(226)
G_{cor} = 23.9 kt	R_{+6} = [ ]	Δ Grupo/Group = 3	SBLP 232100Z 16015KT CAVOK 31/12 Q1015=		
V_{cor} = 16.6 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

SBLP/83289 EVENTO/EVENT 75 - 17/09/2014, 17:00 UTC (MSS - REDEMET)

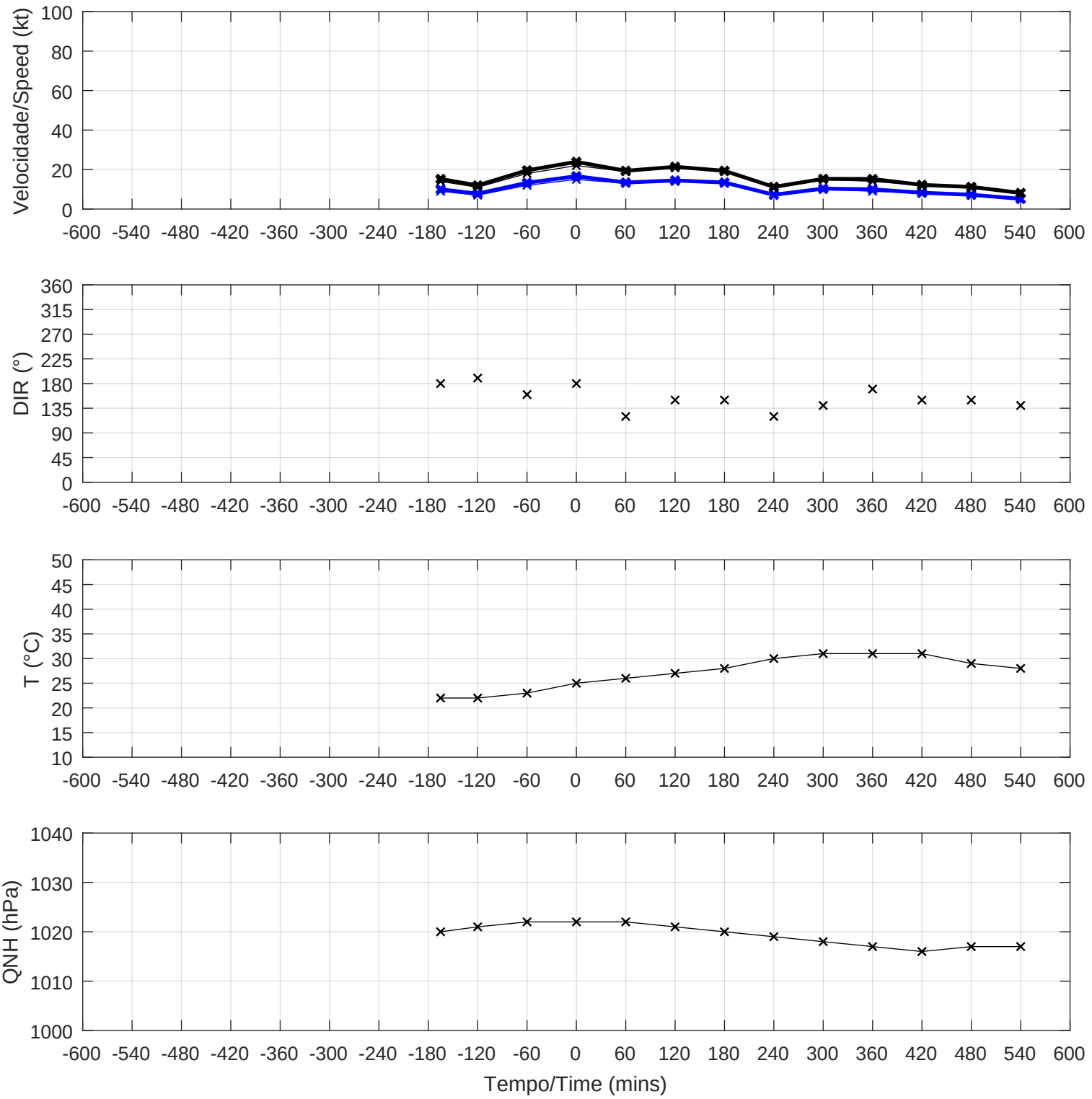
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G* = 22 kt	R_{-6} = 4.1	$T_{med,3}$ = 36.0 °C	DIR = 210°	NÃO/NO	SINÓTICO
V_{obs} = 15 kt	R_{-3} = 2.3	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = 160°		SYNOPTIC
G_V = [ ]	R_{+3} = 1.4	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 70°		(225)
G_{cor} = 23.9 kt	R_{+6} = 1.4	Δ Grupo/Group = 3	METAR SBLP 171700Z 21015KT 9999 FEW030 37/10 Q1012=		
V_{cor} = 16.6 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

SBLP/83289 EVENTO/EVENT 78 - 17/05/2015, 12:00 UTC (MSS - REDEMET)

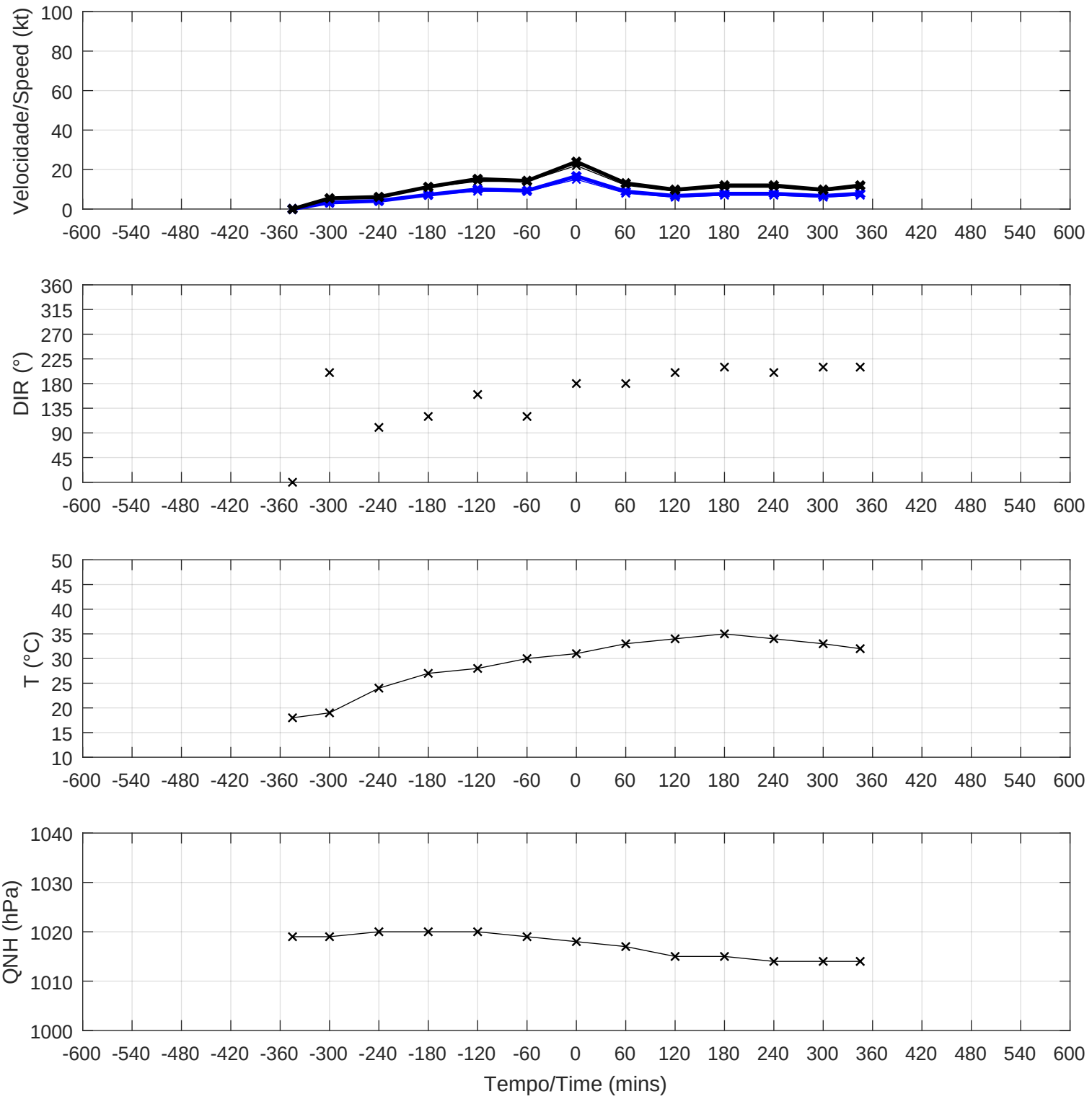
Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G* = 22 kt	R_{-6} = [ ]	$T_{med,3}$ = 22.4 °C	DIR = 180°	NÃO/NO	SINÓTICO
V_{obs} = 15 kt	R_{-3} = 1.5	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = 20°		SYNOPTIC
G_V = [ ]	R_{+3} = 1.1	$\Delta Q_{max,3}$ = 1.0 hPa	$\Delta DIR_{max,+3}$ = 60°		(226)
G_{cor} = 23.9 kt	R_{+6} = 1.3	Δ Grupo/Group = 3	METAR SBLP 171200Z 18015KT 9999 SCT020 SCT100 25/18 Q1022=		
V_{cor} = 16.6 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

SBLP/83289 EVENTO/EVENT 79 - 01/09/2015, 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* = 22 kt	R_{-6} = 2.5	$T_{med,3}$ = 28.3 °C	DIR = 180°	NÃO/NO	SINÓTICO
V_{obs} = 15 kt	R_{-3} = 1.7	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = 60°		SYNOPTIC
G_V = [ ]	R_{+3} = 2.1	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 30°		(225)
G_{cor} = 23.9 kt	R_{+6} = 2.1	Δ Grupo/Group = 3	METAR SBLP 011500Z 18015KT CAVOK 31/10 Q1018=		
V_{cor} = 16.6 kt					



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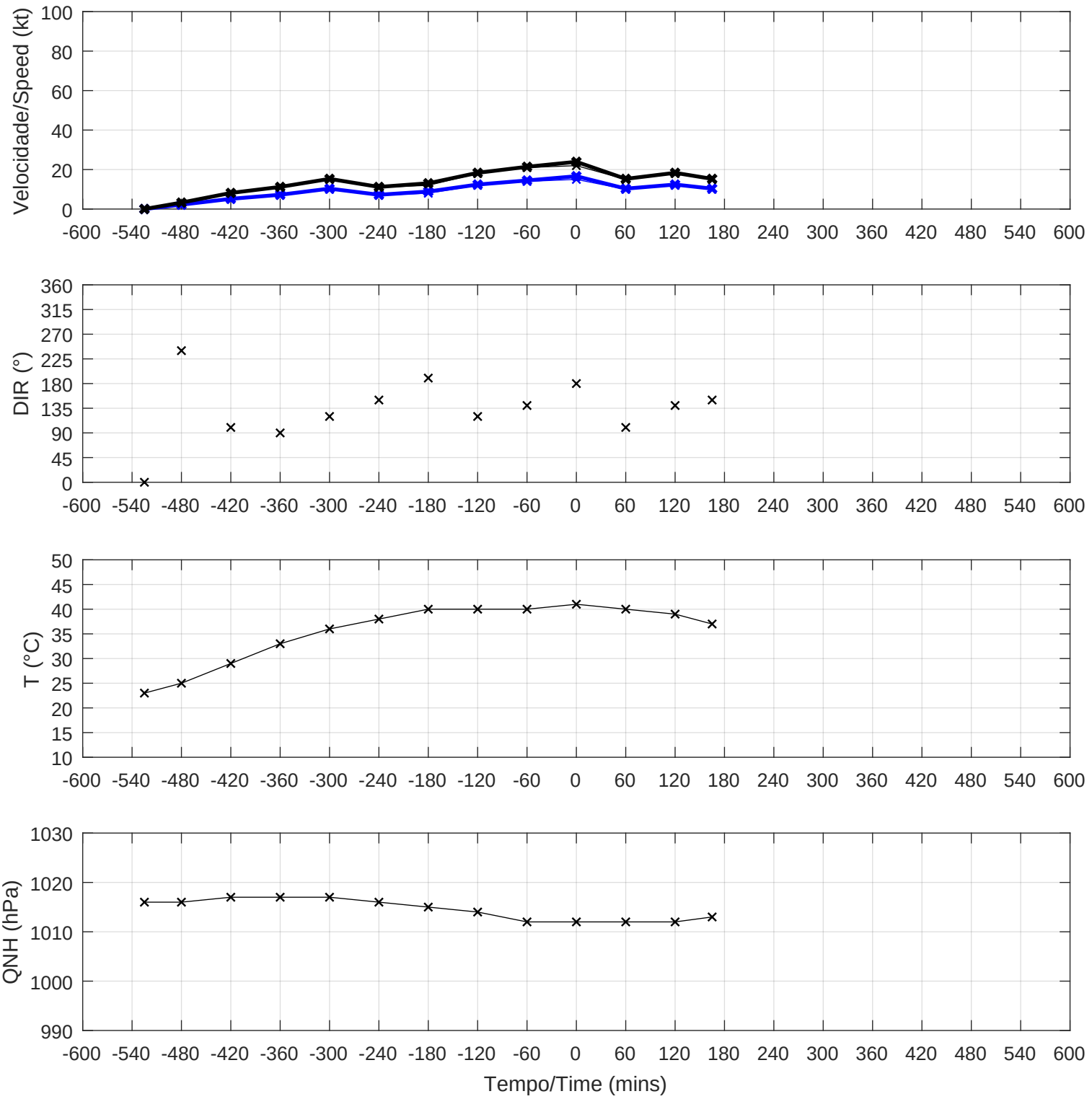
SBLP/83289 EVENTO/EVENT 80 - 18/10/2015, 18:00 UTC (MSS - REDEMET)

Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G* = 22 kt	R_{-6} = 1.5	$T_{med,3}$ = 40.0 °C	DIR = 180°	NÃO/NO	SINÓTICO
V_{obs} = 15 kt	R_{-3} = 1.3	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = 60°		SYNOPTIC
G_V = [ ]	R_{+3} = 1.4	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 80°		(226)
G_{cor} = 23.9 kt	R_{+6} = [ ]	Δ Grupo/Group = 3	METAR SBLP 181800Z 18015KT CAVOK 41/M01 Q1012=		
V_{cor} = 16.6 kt					



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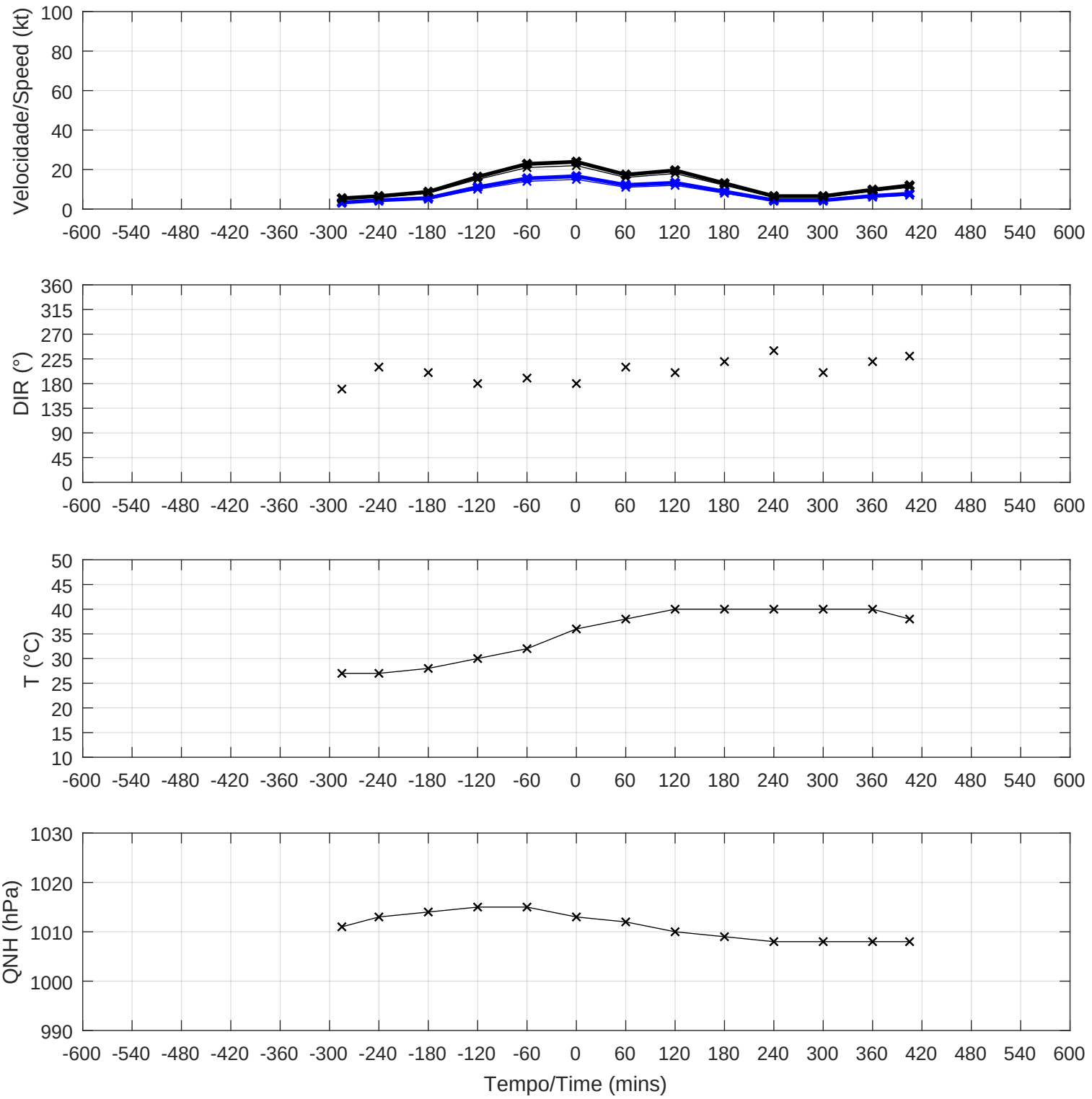
SBLP/83289 EVENTO/EVENT 81 - 23/10/2015, 14:00 UTC (MSS - REDEMET)

Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G* = 22 kt	R_{-6} = 1.9	$T_{med,3}$ = 30.0 °C	DIR = 180°	NÃO/NO	SINÓTICO
V_{obs} = 15 kt	R_{-3} = 1.5	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = 20°		SYNOPTIC
G_V = [ ]	R_{+3} = 1.4	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 40°		(226)
G_{cor} = 23.9 kt	R_{+6} = 2.0	Δ Grupo/Group = 3	METAR SBLP 231400Z 18015KT 9999 FEW030 36/14 Q1013=		
V_{cor} = 16.6 kt					



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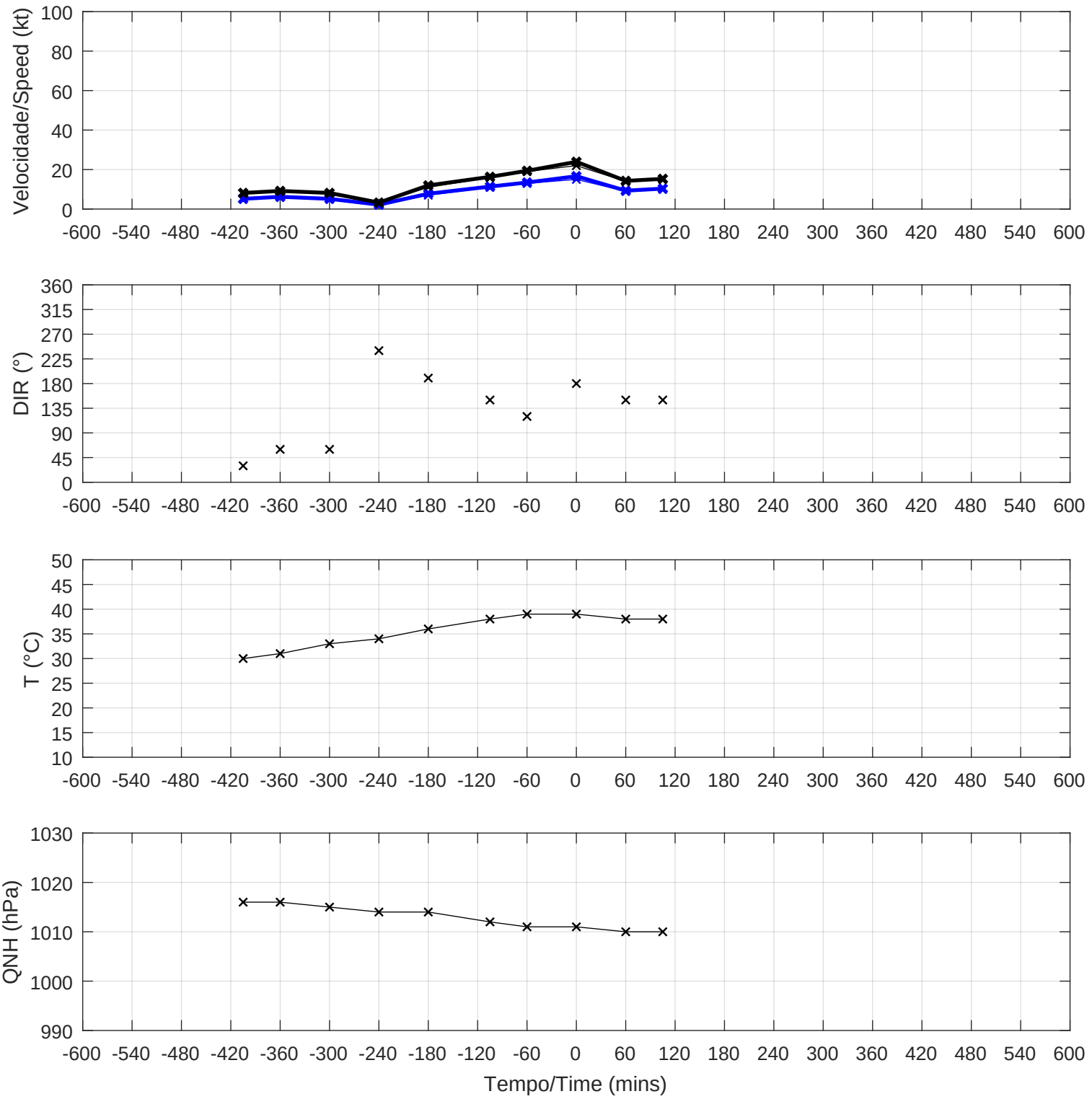
SBLP/83289 EVENTO/EVENT 84 - 06/01/2017, 18:00 UTC (MSS - REDEMET)

Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G* = 22 kt	R_{-6} = 2.0	$T_{med,3}$ = 37.6 °C	DIR = 180°	NÃO/NO	SINÓTICO
V_{obs} = 15 kt	R_{-3} = 1.4	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = 60°		SYNOPTIC
G_V = [ ]	R_{+3} = 1.5	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 30°		(225)
G_{cor} = 23.9 kt	R_{+6} = [ ]	Δ Grupo/Group = 3	METAR SBLP 061800Z 18015KT 9999 FEW030 39/13 Q1011=		
V_{cor} = 16.6 kt					



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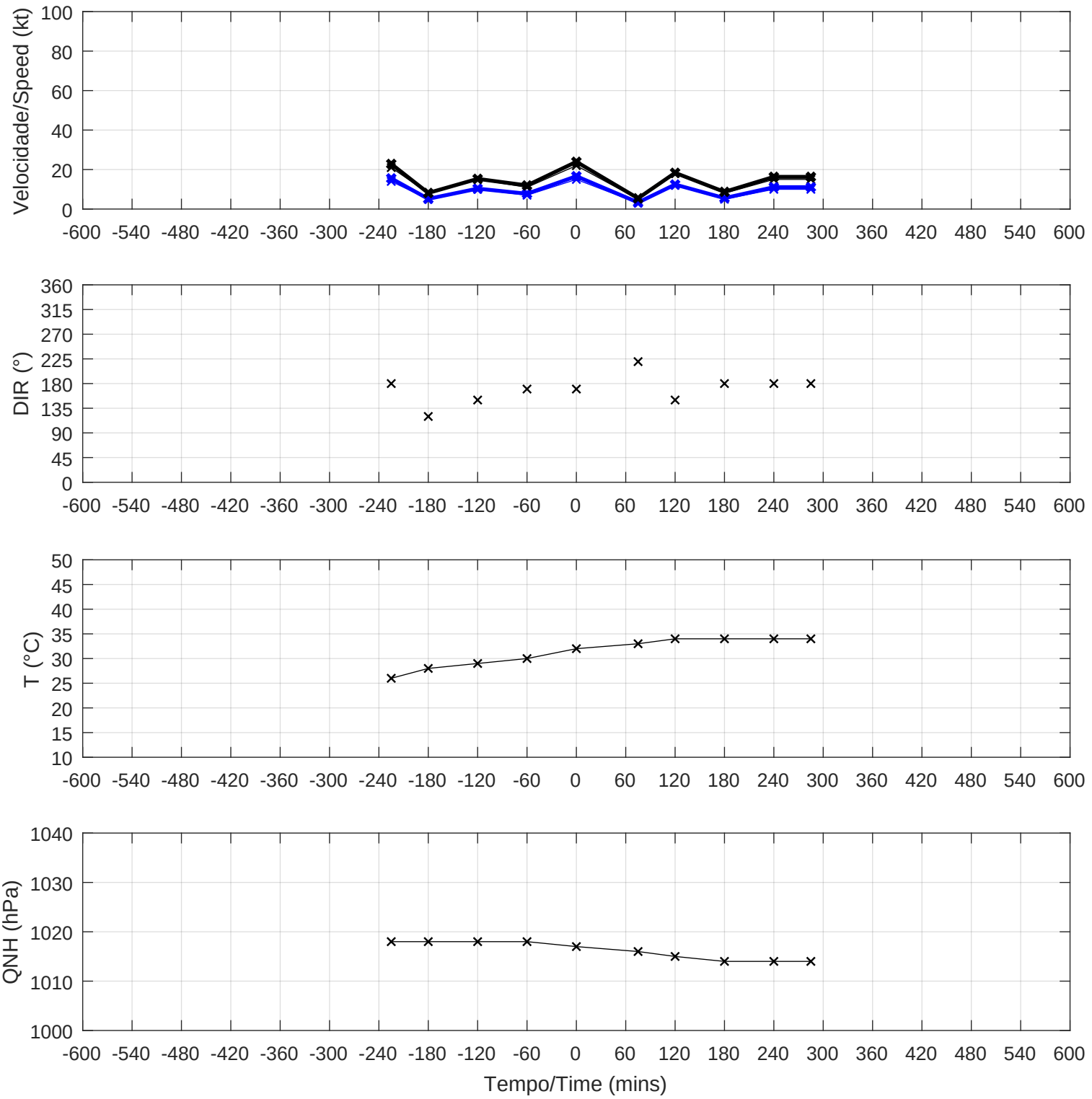
SBLP/83289 EVENTO/EVENT 85 - 16/02/2017, 15:00 UTC (MSS - REDEMET)

Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G* = 22 kt	R_{-6} = 1.7	$T_{med,3}$ = 29.0 °C	DIR = 170°	NÃO/NO	SINÓTICO
V_{obs} = 15 kt	R_{-3} = 1.9	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = 50°		SYNOPTIC
G_V = [ ]	R_{+3} = 2.0	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 50°		(226)
G_{cor} = 23.9 kt	R_{+6} = 1.8	Δ Grupo/Group = 3	METAR SBLP 161500Z 17015KT 9999 FEW030 32/18 Q1017=		
V_{cor} = 16.6 kt					



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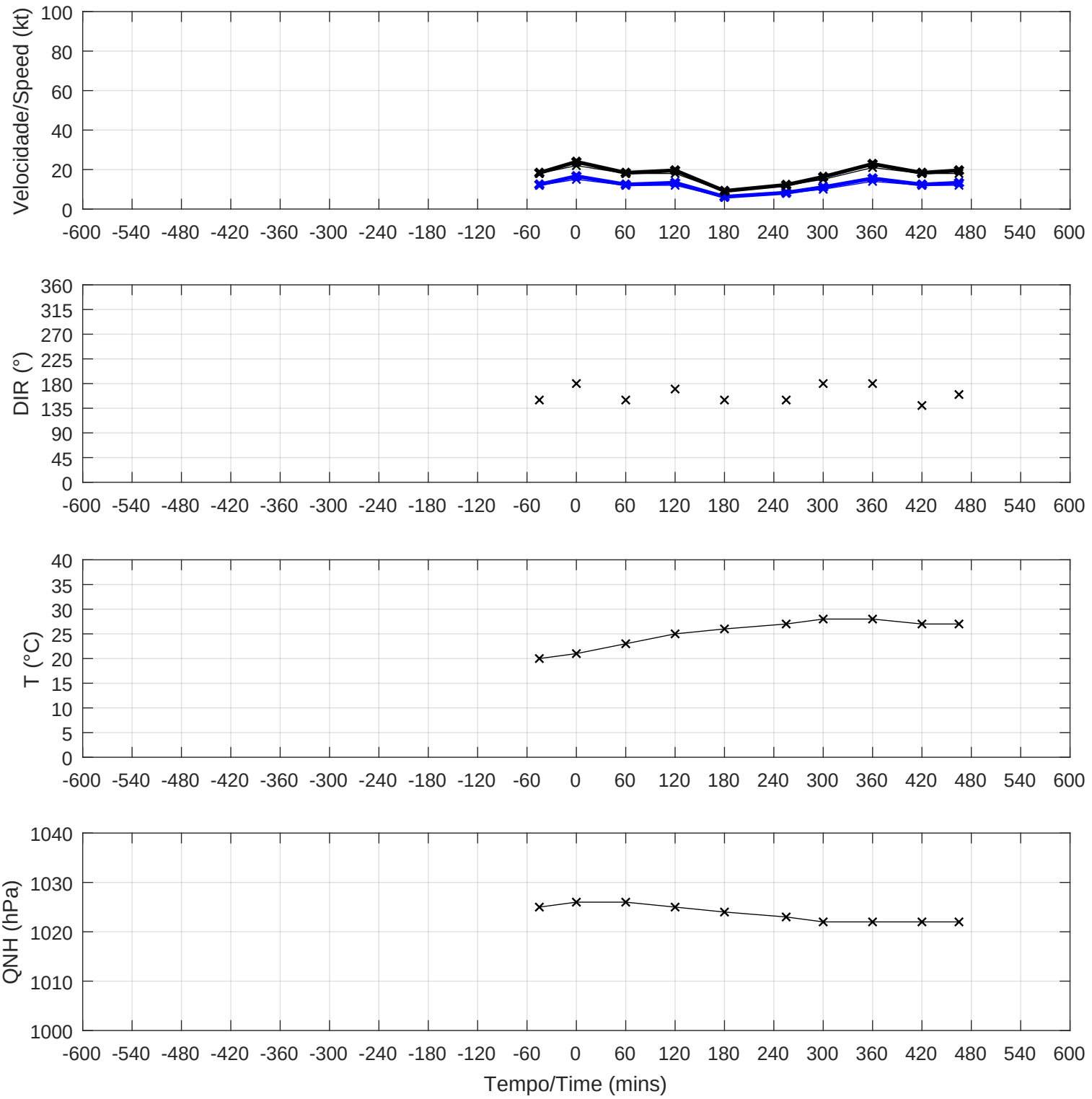
SBLP/83289 EVENTO/EVENT 89 - 04/07/2017, 12:00 UTC (MSS - REDEMET)

Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G* = 22 kt	R_{-6} = [ ]	$T_{med,3}$ = 20.0 °C	DIR = 180°	NÃO/NO	SINÓTICO
V_{obs} = 15 kt	R_{-3} = 1.2	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = 30°		SYNOPTIC
G_V = [ ]	R_{+3} = 1.5	$\Delta Q_{max,3}$ = 1.0 hPa	$\Delta DIR_{max,+3}$ = 30°		(226)
G_{cor} = 23.9 kt	R_{+6} = 1.4	Δ Grupo/Group = 3	METAR SBLP 041200Z 18015KT CAVOK 21/11 Q1026=		
V_{cor} = 16.6 kt					



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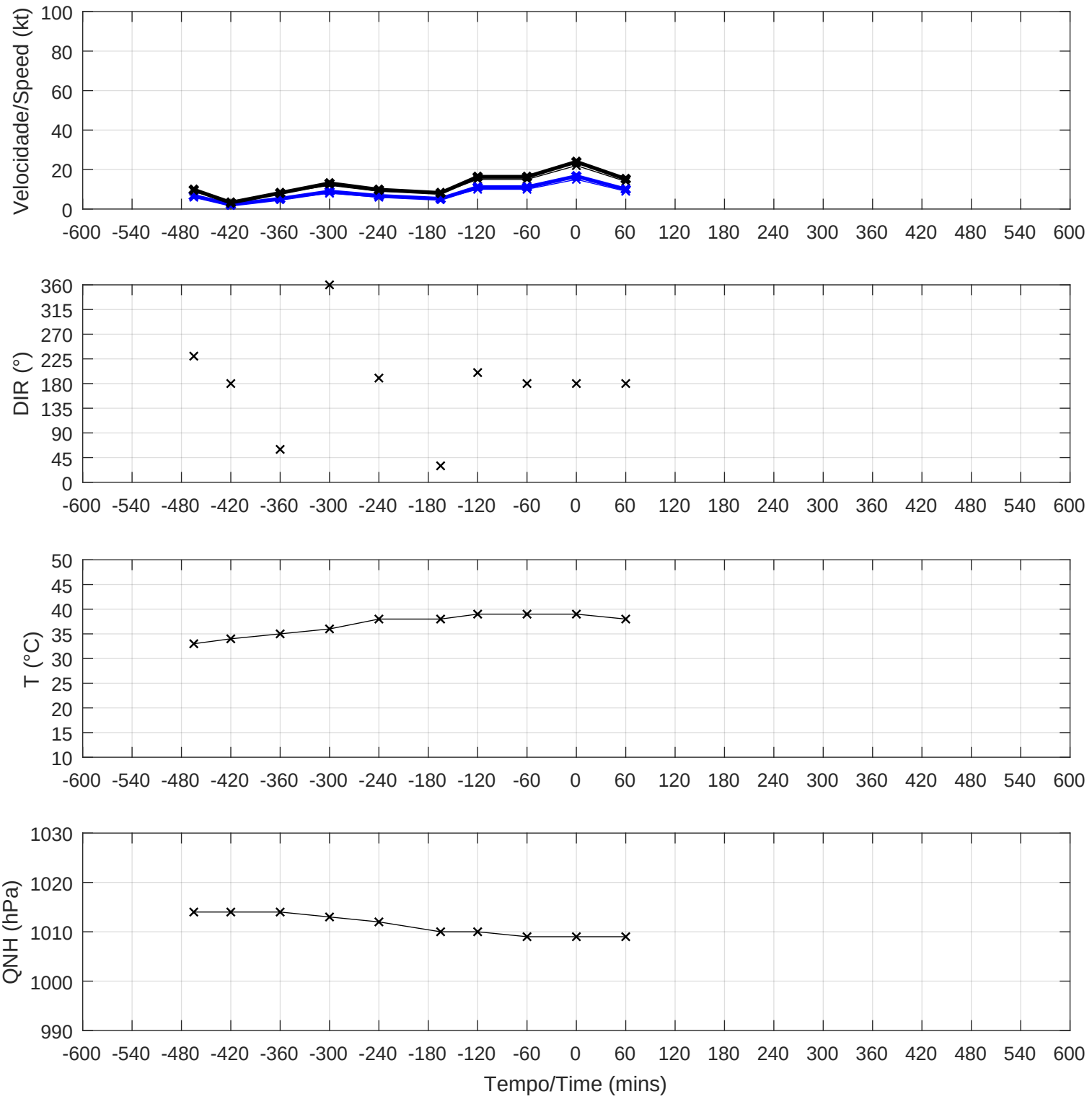
SBLP/83289 EVENTO/EVENT 90 - 05/10/2018, 19:00 UTC (MSS - REDEMET)

Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G* = 22 kt	R_{-6} = 1.9	$T_{med,3}$ = 38.7 °C	DIR = 180°	NÃO/NO	SINÓTICO
V_{obs} = 15 kt	R_{-3} = 1.7	$\Delta T_{min,3}$ = -1.0 °C	$\Delta DIR_{max,-3}$ = 150°		SYNOPTIC
G_V = [ ]	R_{+3} = 1.6	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 0°		(226)
G_{cor} = 23.9 kt	R_{+6} = [ ]	Δ Grupo/Group = 3	METAR SBLP 051900Z 18015KT 9999 FEW030 39/13 Q1009=		
V_{cor} = 16.6 kt					



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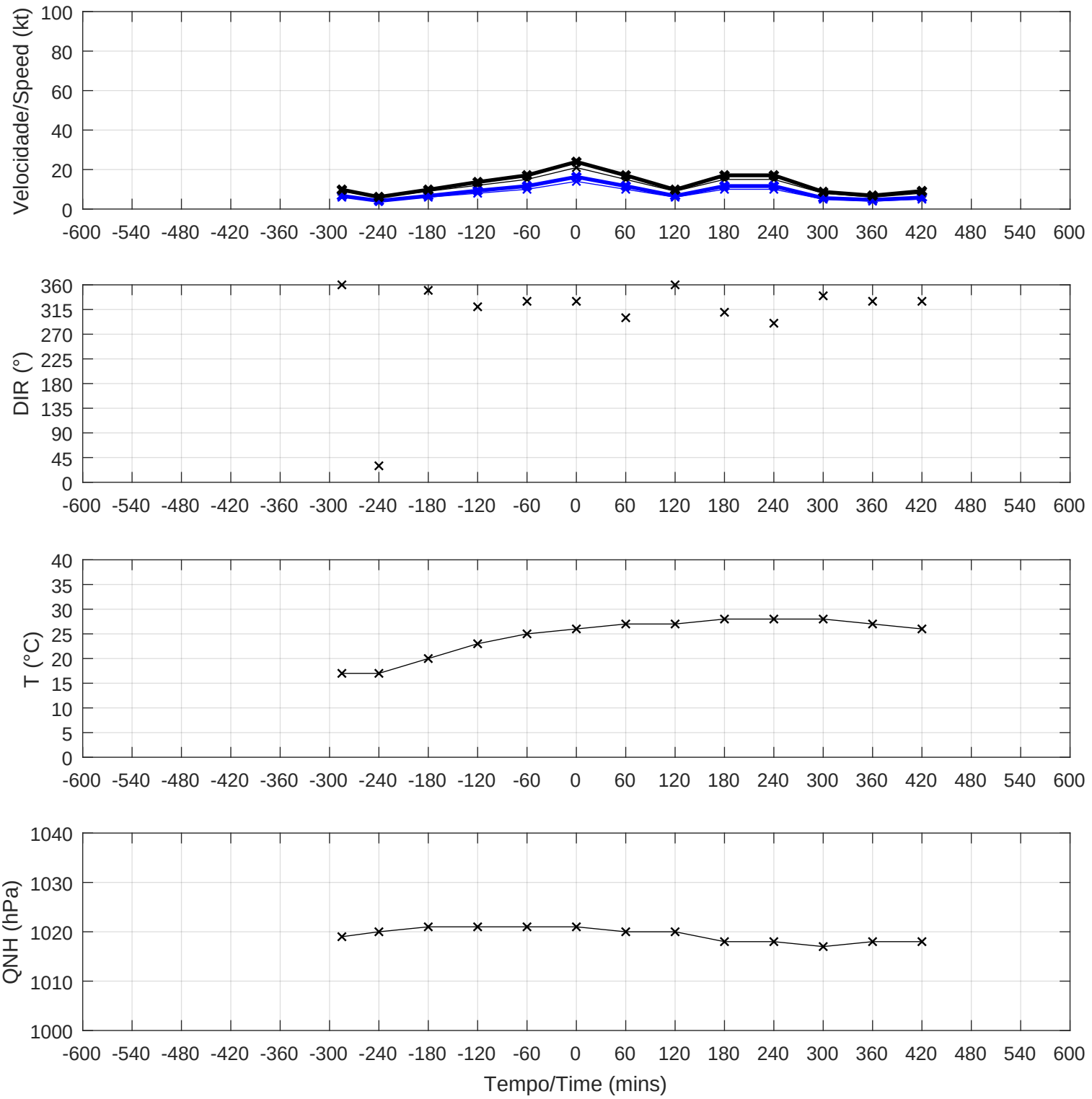
SBLP/83289 EVENTO/EVENT 91 - 11/07/2013, 14:00 UTC (MSS - REDEMET)

Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G* = 21 kt	R_{-6} = 2.0	$T_{med,3}$ = 22.7 °C	DIR = 330°	NÃO/NO	SINÓTICO
V_{obs} = 14 kt	R_{-3} = 1.8	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = 20°		SYNOPTIC
G_V = [ ]	R_{+3} = 1.6	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 30°		(226)
G_{cor} = 23.9 kt	R_{+6} = 1.9	Δ Grupo/Group = 3	METAR SBLP 111400Z 33014KT 9999 SCT020 26/13 Q1021=		
V_{cor} = 16.3 kt					



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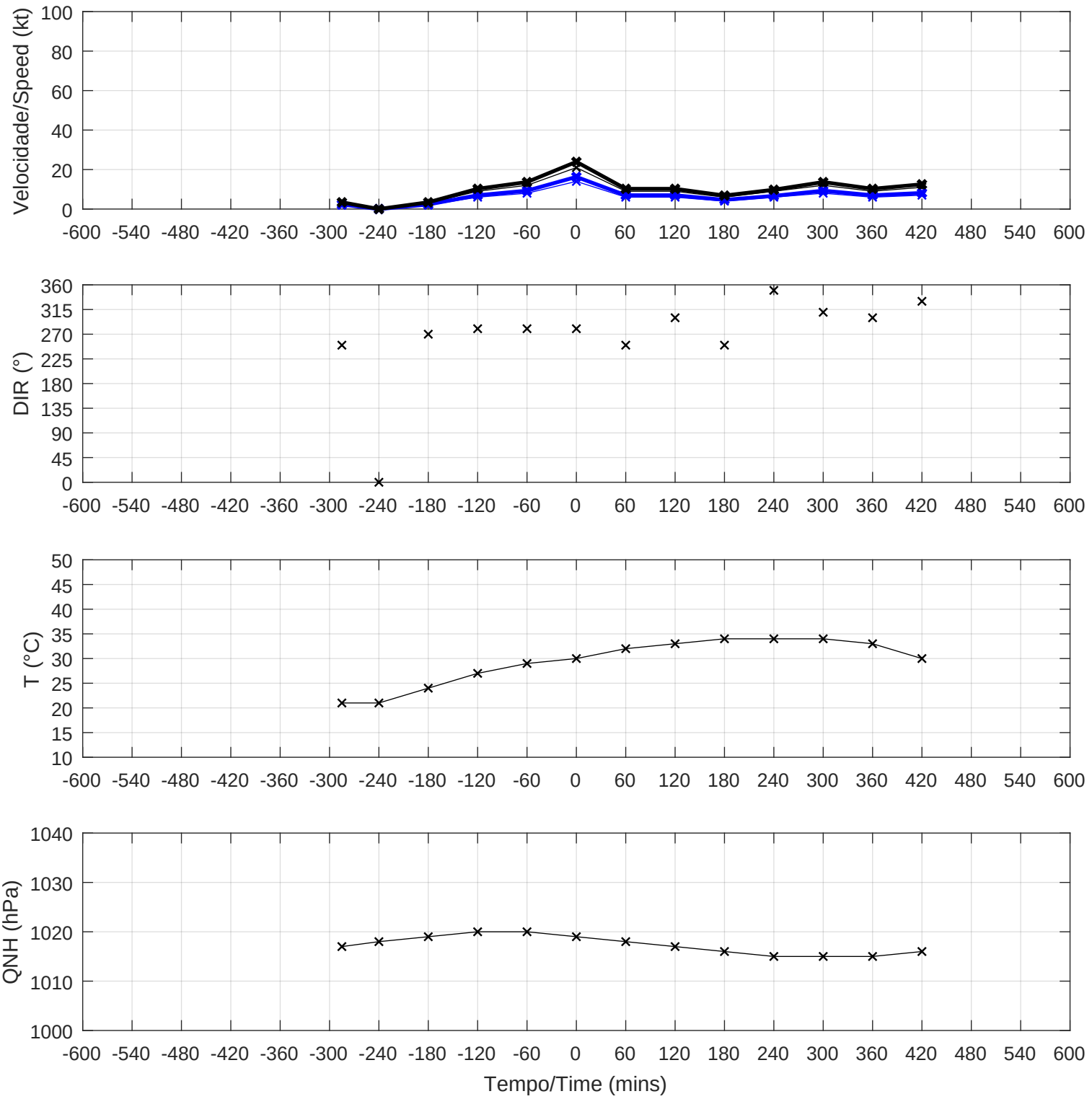
SBLP/83289 EVENTO/EVENT 92 - 16/08/2013, 14:00 UTC (MSS - REDEMET)

Valores de Pico Peak Values	Razões de Pico Peak Ratios	Δ Temp. & Press.	Δ Direção Δ Direction	Temp. Elétrica Thunderstorm	Classificação Classification
G* = 21 kt	R_{-6} = 3.8	$T_{med,3}$ = 26.7 °C	DIR = 280°	NÃO/NO	SINÓTICO
V_{obs} = 14 kt	R_{-3} = 2.6	$\Delta T_{min,3}$ = 0.0 °C	$\Delta DIR_{max,-3}$ = 10°		SYNOPTIC
G_V = [ ]	R_{+3} = 2.6	$\Delta Q_{max,3}$ = 0.0 hPa	$\Delta DIR_{max,+3}$ = 30°		(225)
G_{cor} = 23.9 kt	R_{+6} = 2.3	Δ Grupo/Group = 3	METAR SBLP 161400Z 28014KT CAVOK 30/13 Q1019=		
V_{cor} = 16.3 kt					



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