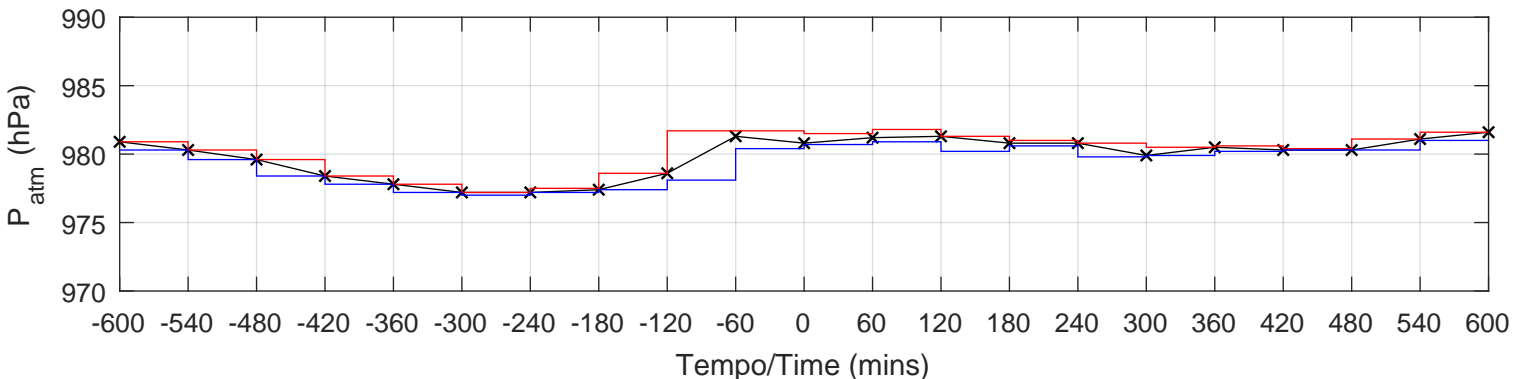
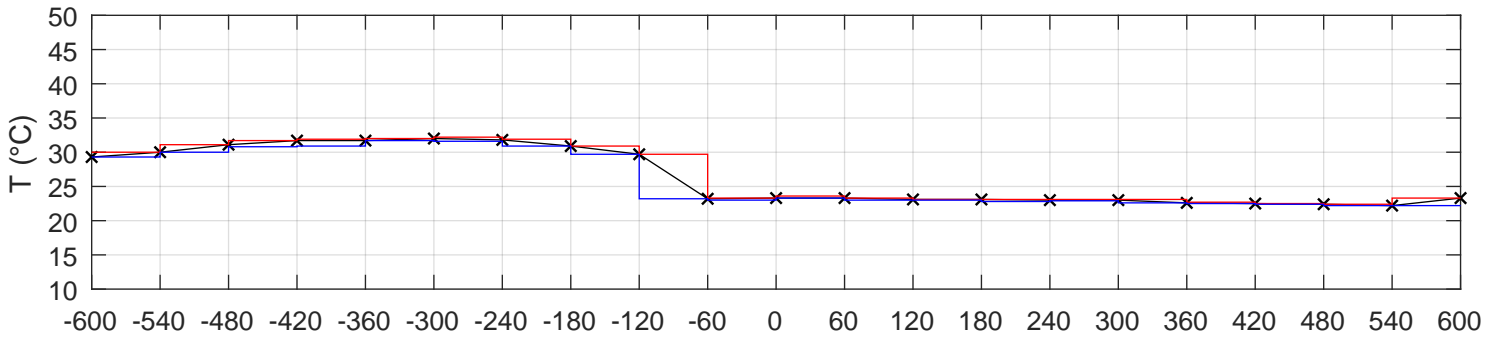
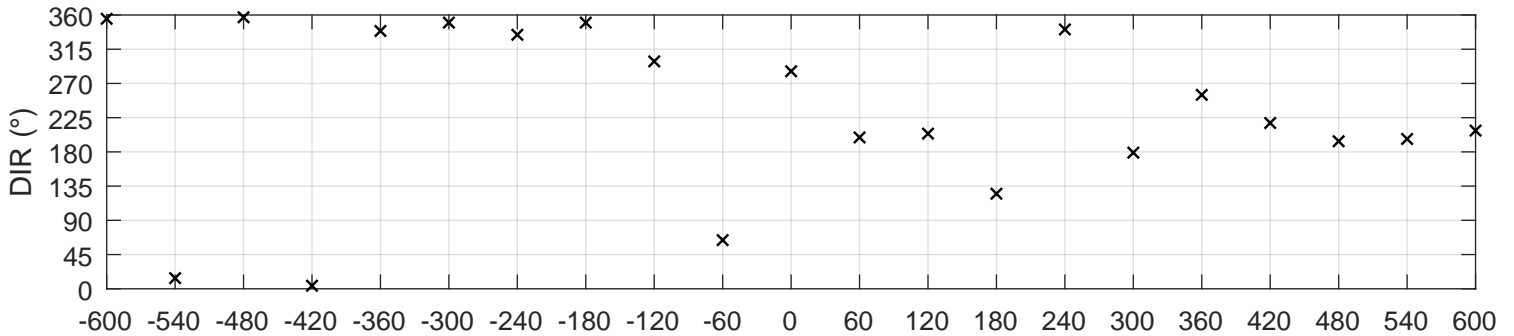
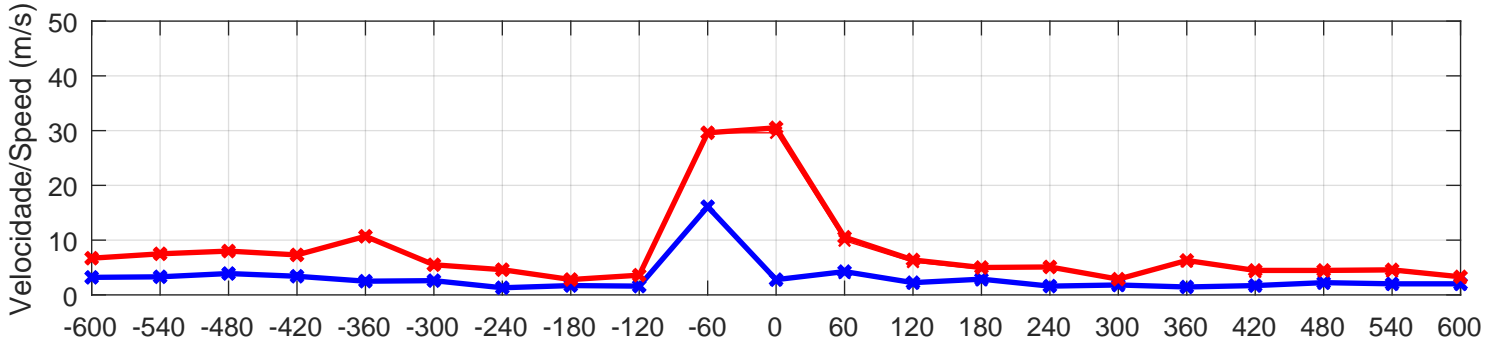


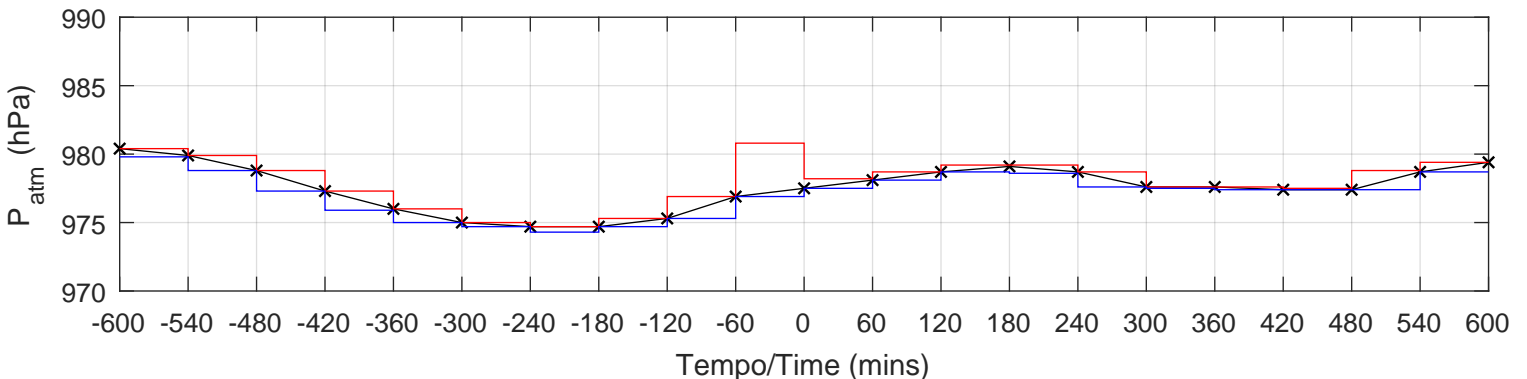
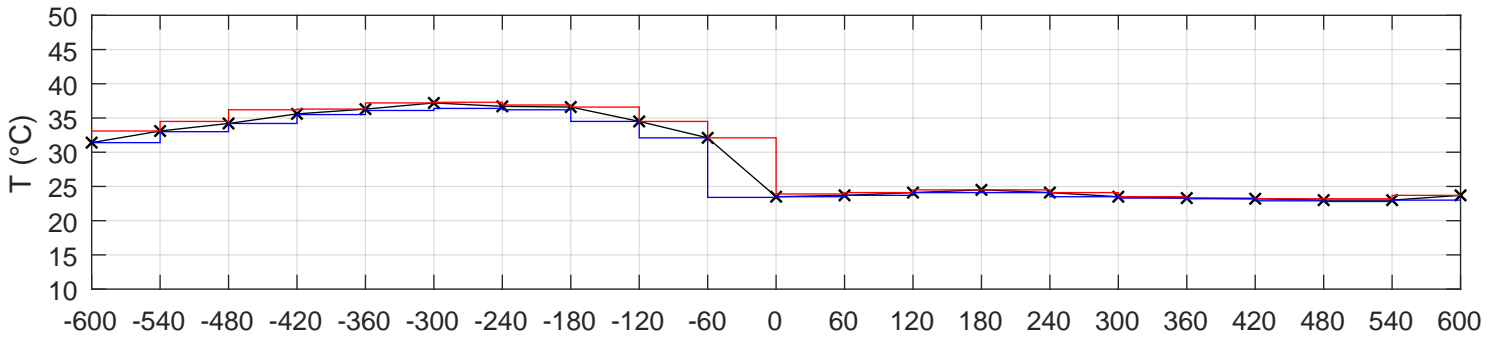
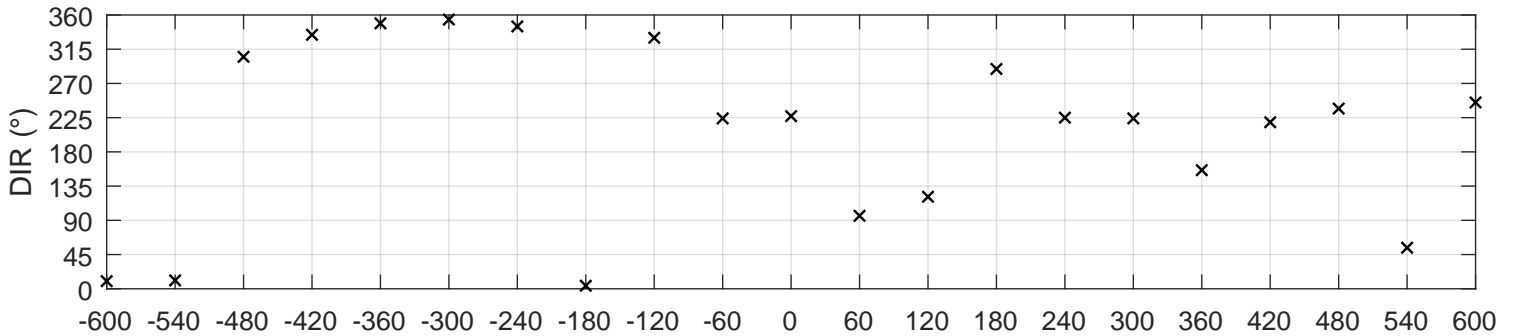
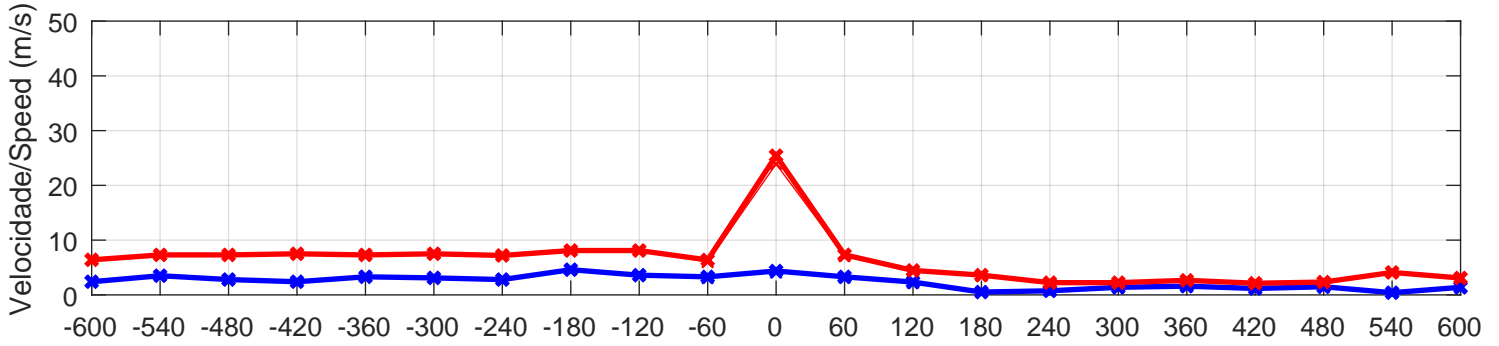
### A336/81846 EVENTO/EVENT 1 - 11/12/2009, 00:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios      | Δ Temp. & Press.                                 | Δ Direção<br>Δ Direction          | Classificação<br>Classification      |
|--------------------------------|------------------------------------|--|-----------------------------------|--------------------------------------|
| $G_{obs} = 29.6 \text{ m/s}$   | $R_{G,-6} = 3.1$ $R_{V,-6} = 7.4$  | $T_{med,3} = 27.9 \text{ }^\circ\text{C}$        | $DIR = 286^\circ$                 | NÃO-SINÓTICO<br>NON-SYNOPTIC<br>(10) |
| $V_{obs} = 16.1 \text{ m/s}$   | $R_{G,-3} = 2.5$ $R_{V,-3} = 10.5$ | $\Delta T_{min,3} = -7.7 \text{ }^\circ\text{C}$ | $\Delta DIR_{max,-3} = 138^\circ$ |                                      |
| $G_V = 1.8$                    | $R_{G,+3} = 4.3$ $R_{V,+3} = 5.5$  | $\Delta P_{max,3} = 4.3 \text{ hPa}$             | $\Delta DIR_{max,+3} = 161^\circ$ |                                      |
| $G_{cor} = 30.5 \text{ m/s}$   | $R_{G,+6} = 5.1$ $R_{V,+6} = 6.5$  | $\Delta \text{ Grupo/Group} = 1$                 |                                   |                                      |
| $V_{cor} = 16.1 \text{ m/s}$   |                                    |  |                                   |                                      |



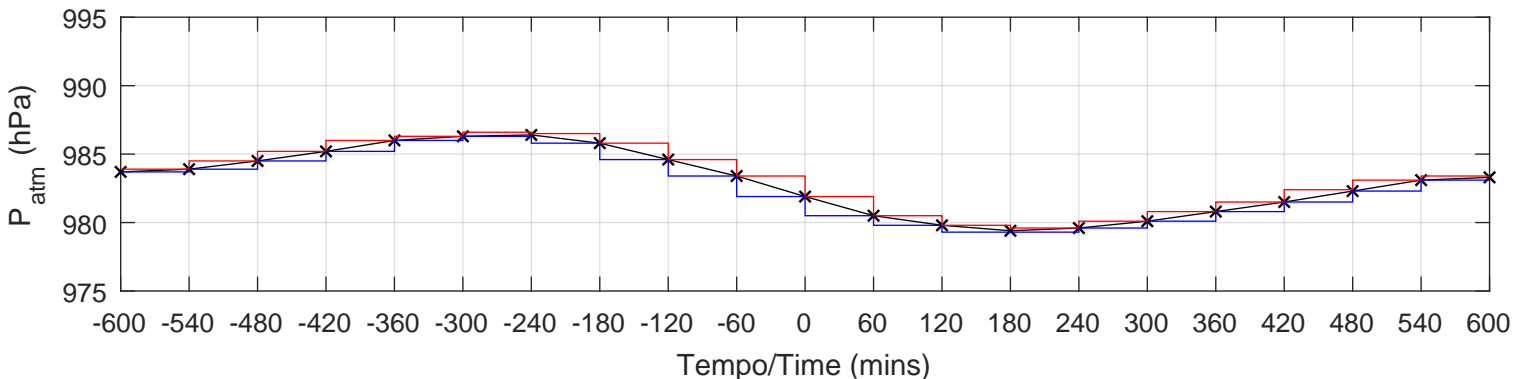
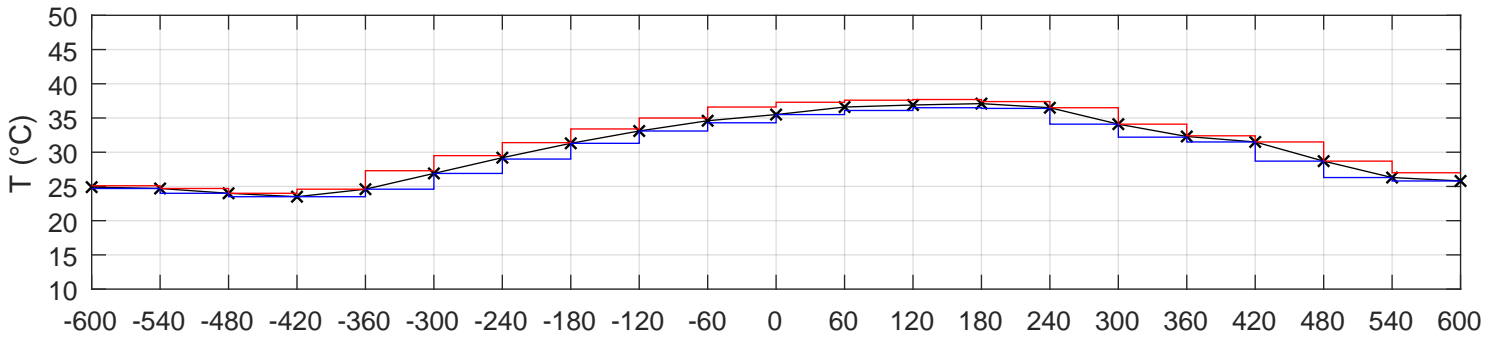
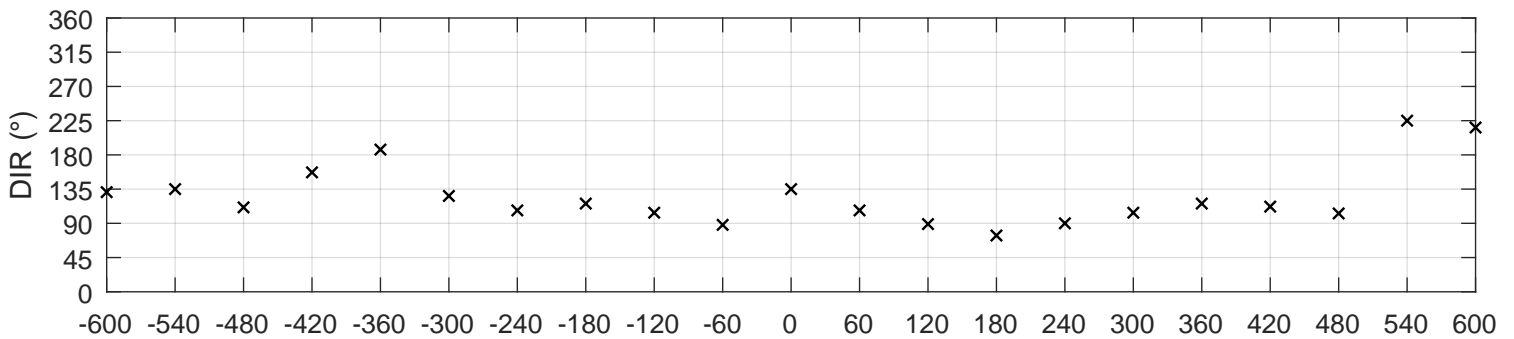
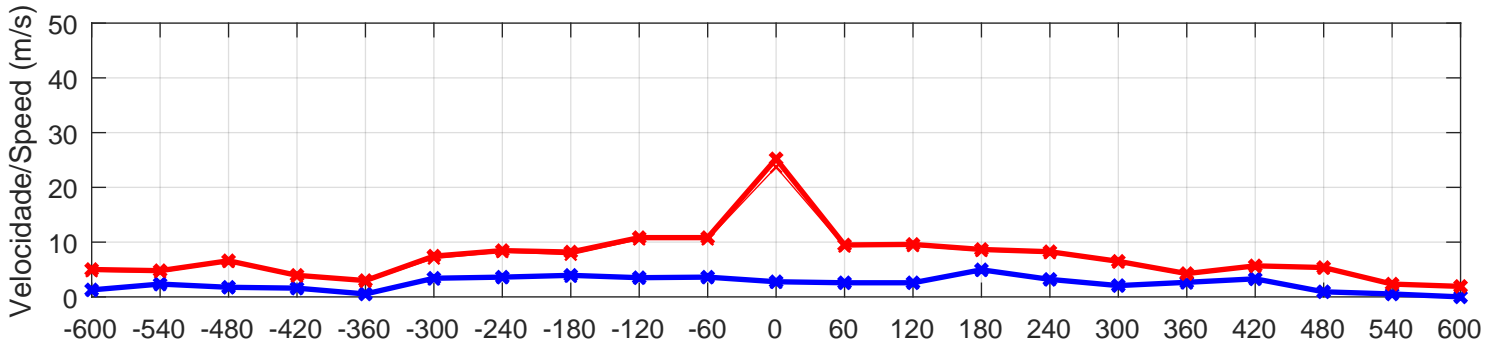
A336/81846 EVENTO/EVENT 2 - 03/11/2010, 22:00 UTC (WRDS - DISME)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                           | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|---|--|---------------------------------|
| $G_{obs} = 23.9 \text{ m/s}$   | $R_{G,-6} = 3.2$ $R_{V,-6} = 1.2$ | $T_{med,3} = 34.4 \text{ }^\circ\text{C}$         | $DIR = 227^\circ$                      | NÃO-SINÓTICO                    |
| $V_{obs} = 4.1 \text{ m/s}$    | $R_{G,-3} = 3.2$ $R_{V,-3} = 1.1$ | $\Delta T_{min,3} = -11.1 \text{ }^\circ\text{C}$ | $\Delta DIR_{max,-3} = 137^\circ$      | NON-SYNOPTIC                    |
| $G_V = 5.8$                    | $R_{G,+3} = 4.8$ $R_{V,+3} = 2.1$ | $\Delta P_{max,3} = 5.5 \text{ hPa}$              | $\Delta DIR_{max,+3} = 131^\circ$      | (10)                            |
| $G_{cor} = 25.4 \text{ m/s}$   | $R_{G,+6} = 6.7$ $R_{V,+6} = 2.6$ | $\Delta$ Grupo/Group = 1                          |  |                                 |
| $V_{cor} = 4.4 \text{ m/s}$    |                                   |   |  |                                 |



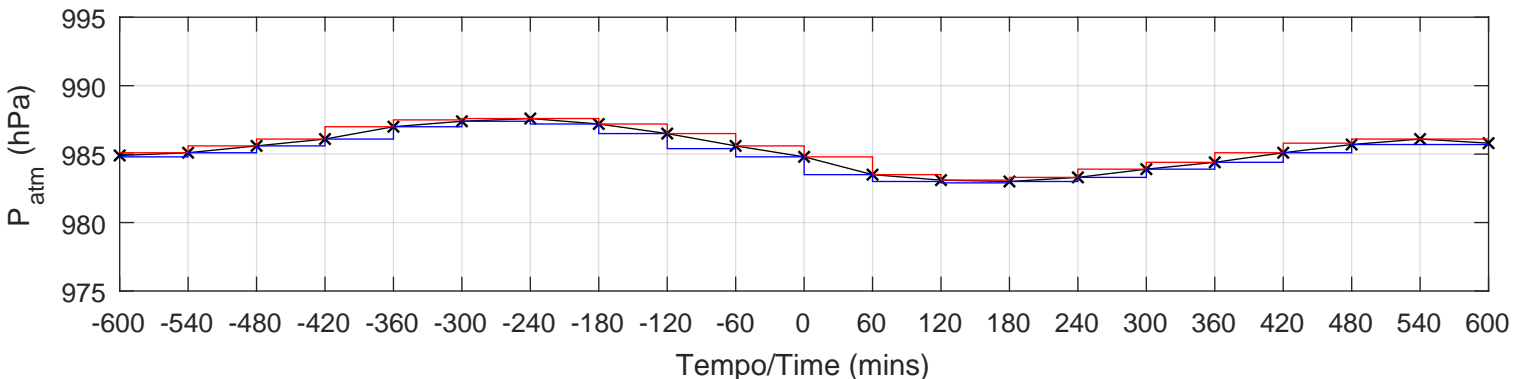
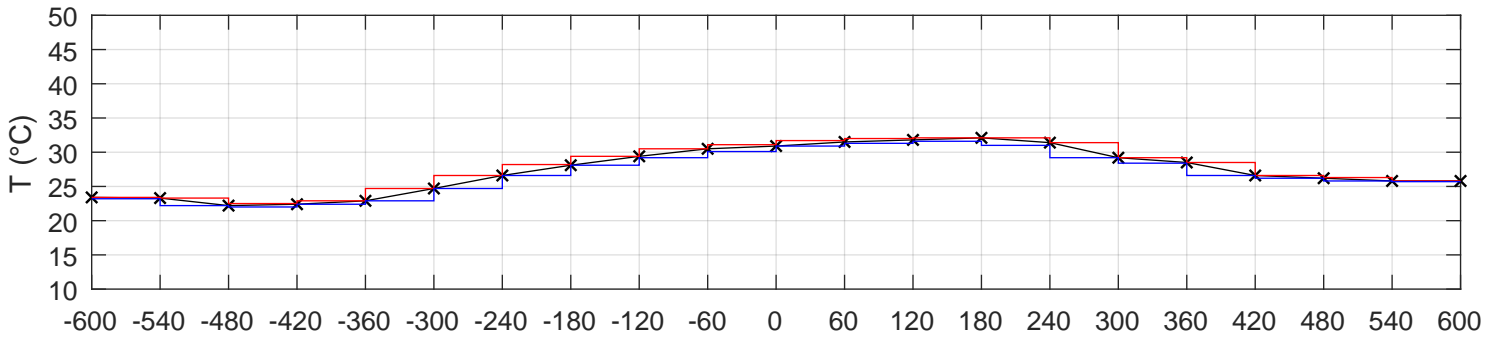
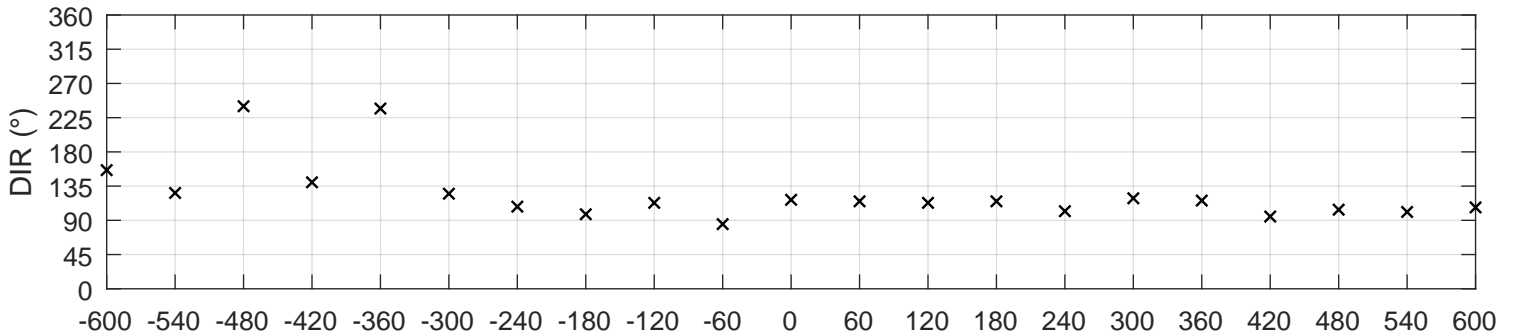
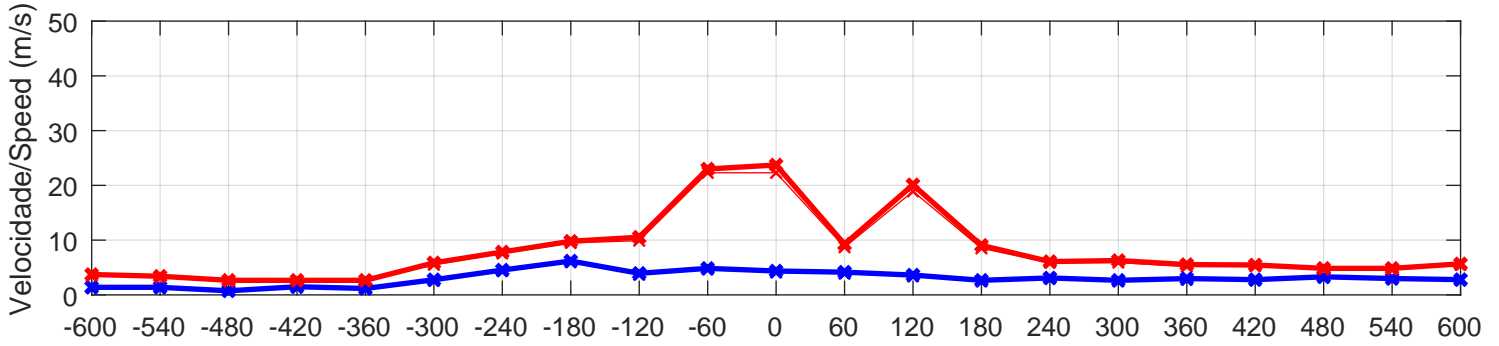
### A336/81846 EVENTO/EVENT 3 - 10/09/2012, 16:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | Δ Temp. & Press.                                 | Δ Direção<br>Δ Direction         | Classificação<br>Classification |
|--------------------------------|-----------------------------------|--|----------------------------------|---------------------------------|
| $G_{obs} = 23.7 \text{ m/s}$   | $R_{G,-6} = 3.0$ $R_{V,-6} = 1.3$ | $T_{med,3} = 33.0 \text{ }^\circ\text{C}$        | $DIR = 135^\circ$                | SUSPEITO                        |
| $V_{obs} = 3.5 \text{ m/s}$    | $R_{G,-3} = 2.5$ $R_{V,-3} = 1.0$ | $\Delta T_{min,3} = -1.1 \text{ }^\circ\text{C}$ | $\Delta DIR_{max,-3} = 47^\circ$ | SUSPECT                         |
| $G_V = 6.8$                    | $R_{G,+3} = 2.6$ $R_{V,+3} = 1.4$ | $\Delta P_{max,3} = 0.0 \text{ hPa}$             | $\Delta DIR_{max,+3} = 61^\circ$ | (34)                            |
| $G_{cor} = 25.2 \text{ m/s}$   | $R_{G,+6} = 3.1$ $R_{V,+6} = 1.2$ | $\Delta \text{ Grupo/Group} = 3$                 |                                  |                                 |
| $V_{cor} = 3.6 \text{ m/s}$    |                                   |  |                                  |                                 |



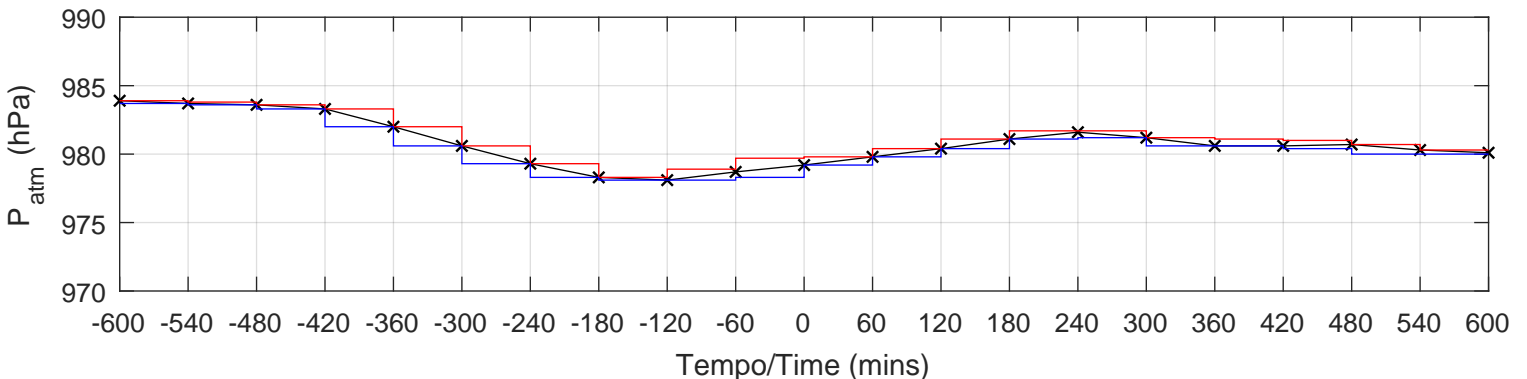
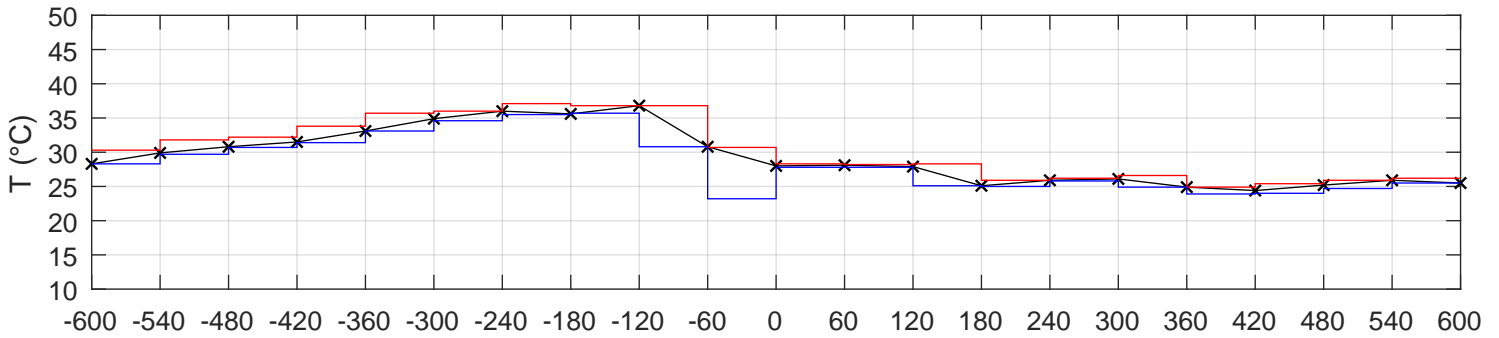
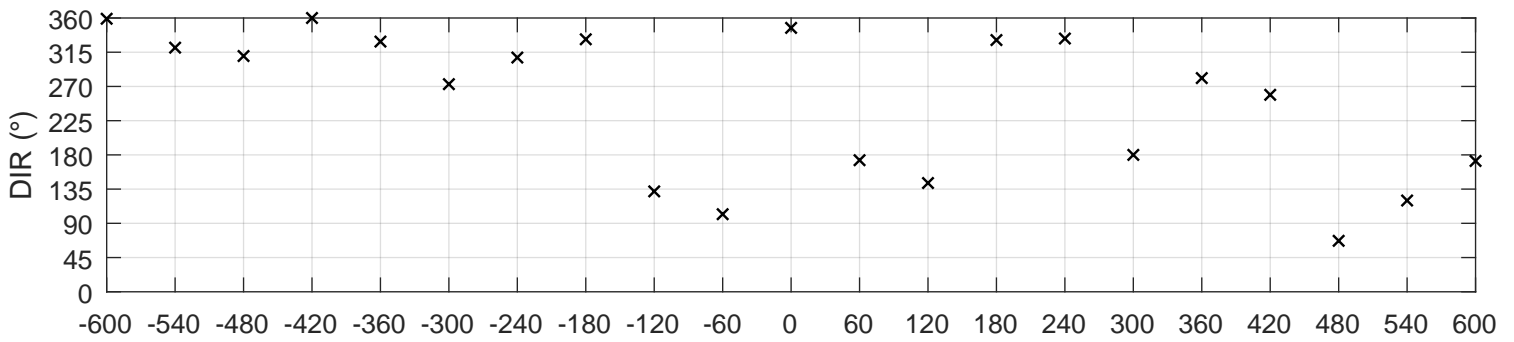
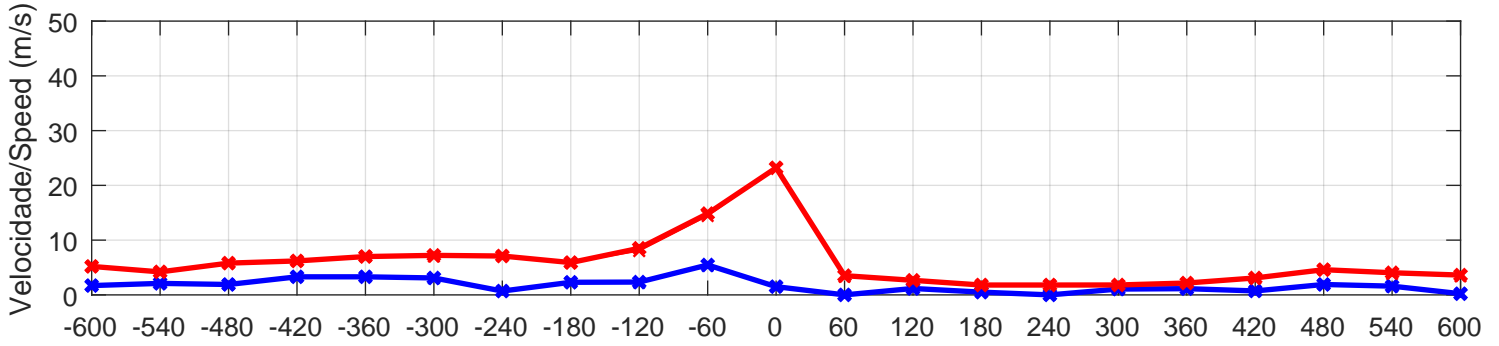
A336/81846 EVENTO/EVENT 4 - 17/07/2009, 16:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                          | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|--|--|---------------------------------|
| $G_{obs} = 22.3 \text{ m/s}$   | $R_{G,-6} = 2.3$ $R_{V,-6} = 1.5$ | $T_{med,3} = 29.3 \text{ }^\circ\text{C}$        | $DIR = 117^\circ$                      | SINÓTICO                        |
| $V_{obs} = 4.7 \text{ m/s}$    | $R_{G,-3} = 1.6$ $R_{V,-3} = 1.0$ | $\Delta T_{min,3} = -0.4 \text{ }^\circ\text{C}$ | $\Delta DIR_{max,-3} = 32^\circ$       | SYNOPTIC                        |
| $G_V = 4.7$                    | $R_{G,+3} = 1.9$ $R_{V,+3} = 1.2$ | $\Delta P_{max,3} = 0.2 \text{ hPa}$             | $\Delta DIR_{max,+3} = 4^\circ$        | (22)                            |
| $G_{cor} = 23.7 \text{ m/s}$   | $R_{G,+6} = 2.5$ $R_{V,+6} = 1.5$ | $\Delta$ Grupo/Group = 3                         |  |                                 |
| $V_{cor} = 4.8 \text{ m/s}$    |                                   |  |  |                                 |



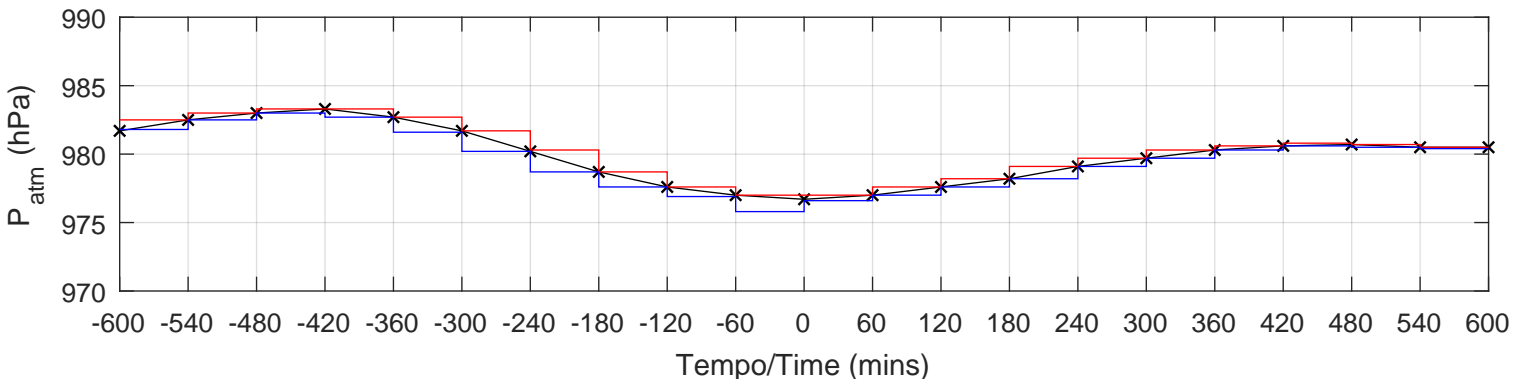
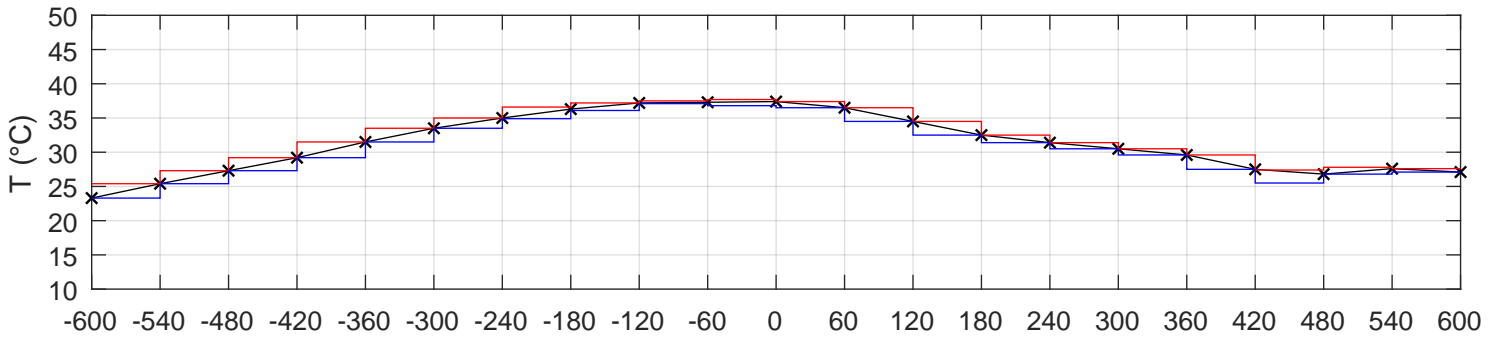
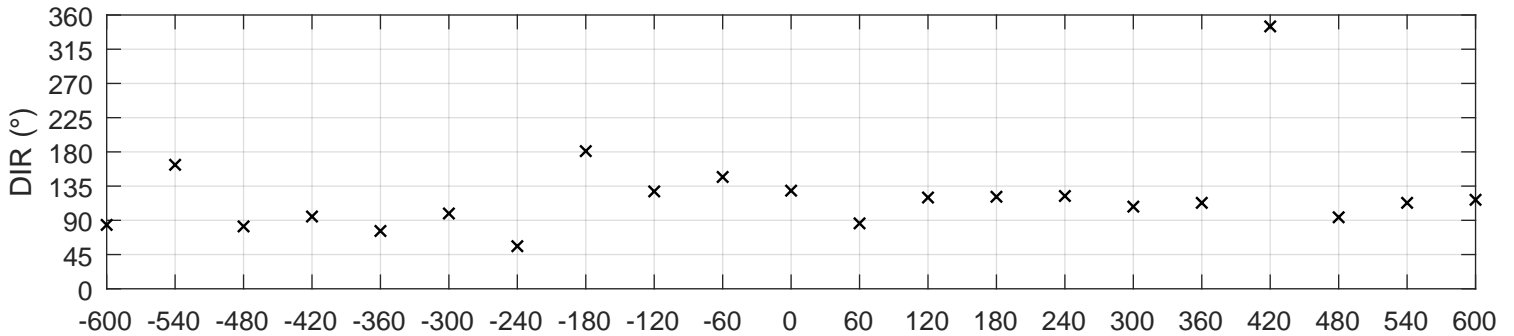
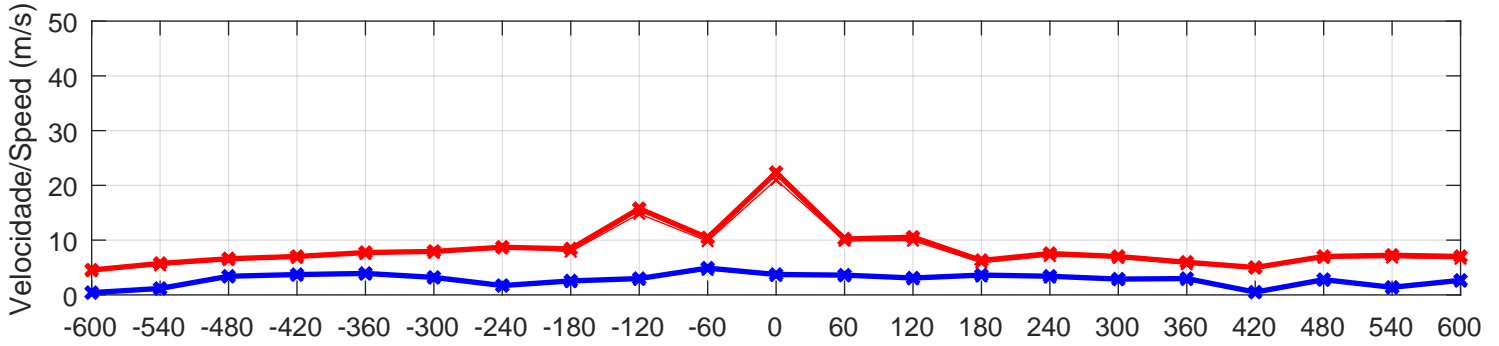
### A336/81846 EVENTO/EVENT 5 - 24/10/2015, 21:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios      | Δ Temp. & Press.                                  | Δ Direção<br>Δ Direction          | Classificação<br>Classification      |
|--------------------------------|------------------------------------|---|-----------------------------------|--------------------------------------|
| $G_{obs} = 23.2 \text{ m/s}$   | $R_{G,-6} = 2.8$ $R_{V,-6} = 2.1$  | $T_{med,3} = 34.4 \text{ }^\circ\text{C}$         | $DIR = 347^\circ$                 | NÃO-SINÓTICO<br>NON-SYNOPTIC<br>(10) |
| $V_{obs} = 5.3 \text{ m/s}$    | $R_{G,-3} = 2.5$ $R_{V,-3} = 3.1$  | $\Delta T_{min,3} = -13.6 \text{ }^\circ\text{C}$ | $\Delta DIR_{max,-3} = 145^\circ$ |                                      |
| $G_V = 4.4$                    | $R_{G,+3} = 9.2$ $R_{V,+3} = 6.1$  | $\Delta P_{max,3} = 1.6 \text{ hPa}$              | $\Delta DIR_{max,+3} = 174^\circ$ |                                      |
| $G_{cor} = 23.2 \text{ m/s}$   | $R_{G,+6} = 10.5$ $R_{V,+6} = 7.8$ | $\Delta \text{ Grupo/Group} = 1$                  |                                   |                                      |
| $V_{cor} = 5.5 \text{ m/s}$    |                                    |   |                                   |                                      |



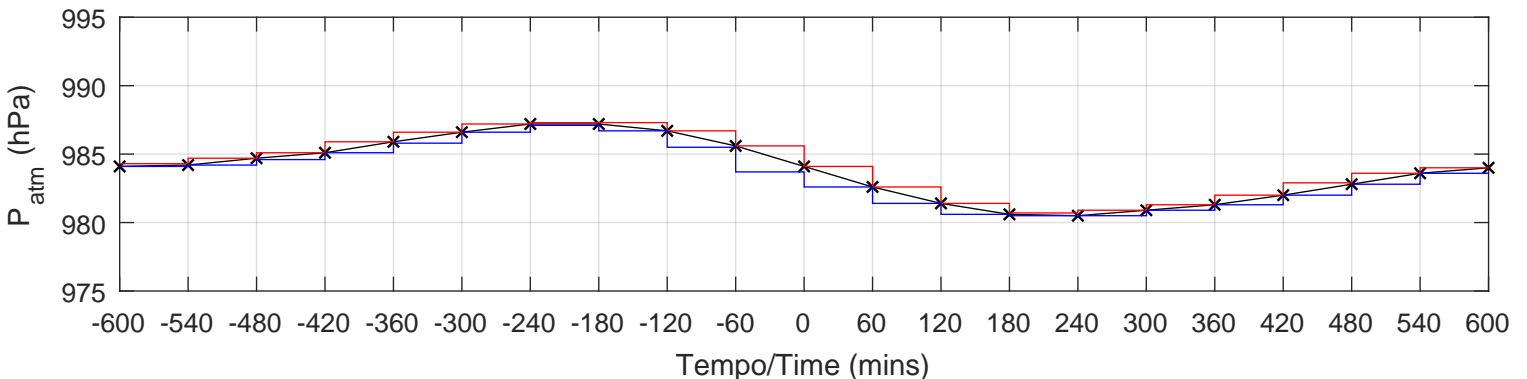
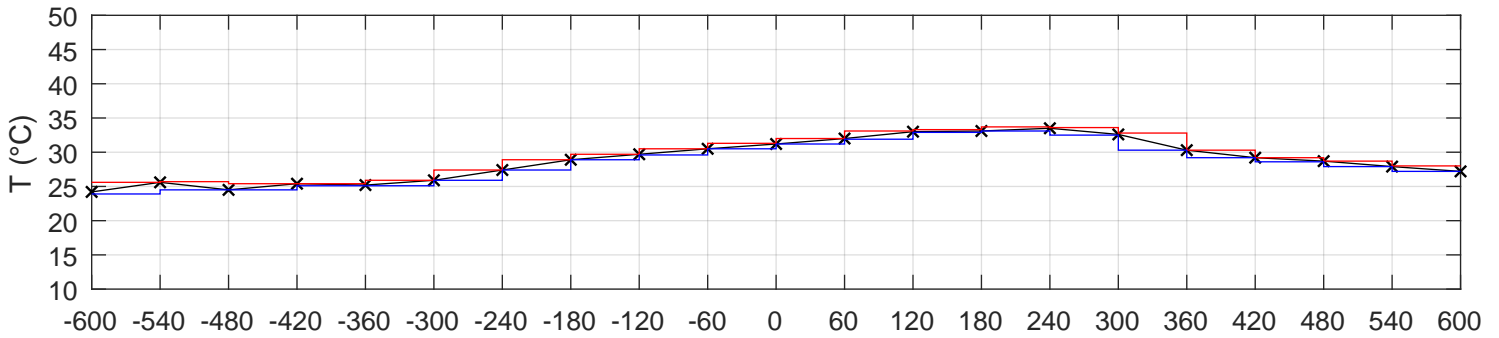
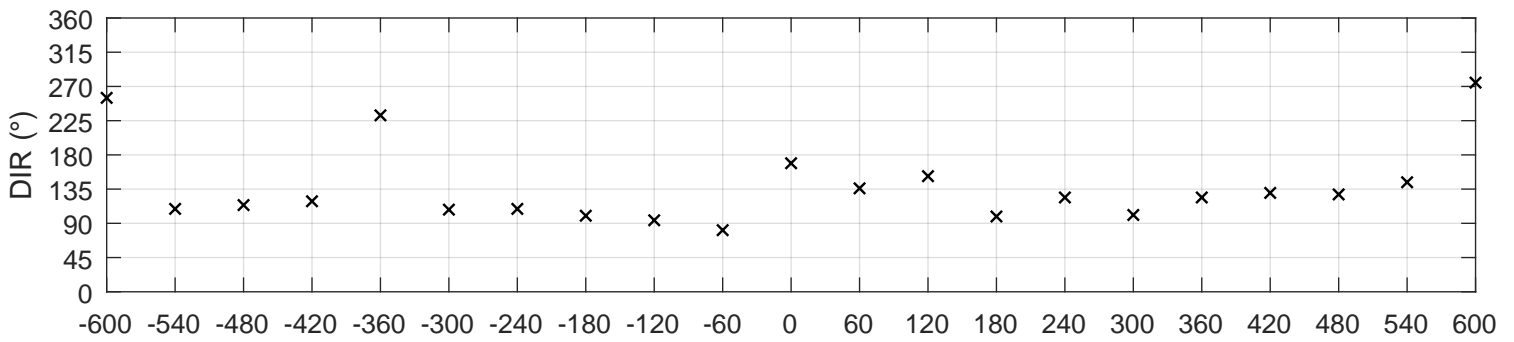
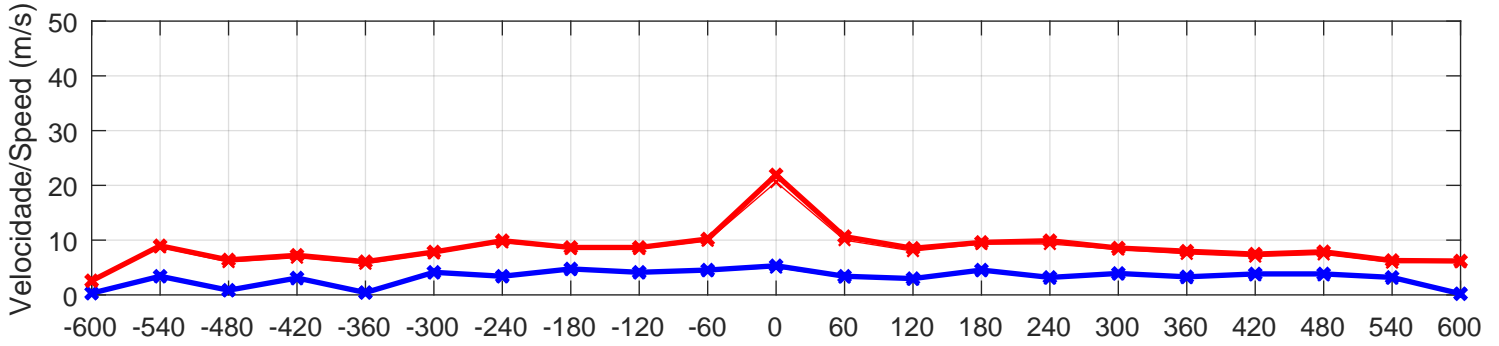
### A336/81846 EVENTO/EVENT 6 - 16/09/2010, 19:00 UTC (WRDS - DISME)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | Δ Temp. & Press.                                 | Δ Direção<br>Δ Direction         | Classificação<br>Classification |
|--------------------------------|-----------------------------------|--|----------------------------------|---------------------------------|
| $G_{obs} = 21.0 \text{ m/s}$   | $R_{G,-6} = 2.2$ $R_{V,-6} = 1.6$ | $T_{med,3} = 36.9 \text{ }^\circ\text{C}$        | $DIR = 129^\circ$                | SINÓTICO                        |
| $V_{obs} = 4.6 \text{ m/s}$    | $R_{G,-3} = 1.9$ $R_{V,-3} = 2.0$ | $\Delta T_{min,3} = -1.2 \text{ }^\circ\text{C}$ | $\Delta DIR_{max,-3} = 52^\circ$ | SYNOPTIC                        |
| $G_V = 4.6$                    | $R_{G,+3} = 2.5$ $R_{V,+3} = 1.4$ | $\Delta P_{max,3} = 1.2 \text{ hPa}$             | $\Delta DIR_{max,+3} = 43^\circ$ | (22)                            |
| $G_{cor} = 22.3 \text{ m/s}$   | $R_{G,+6} = 2.8$ $R_{V,+6} = 1.4$ | $\Delta \text{ Grupo/Group} = 3$                 |                                  |                                 |
| $V_{cor} = 4.9 \text{ m/s}$    |                                   |  |                                  |                                 |



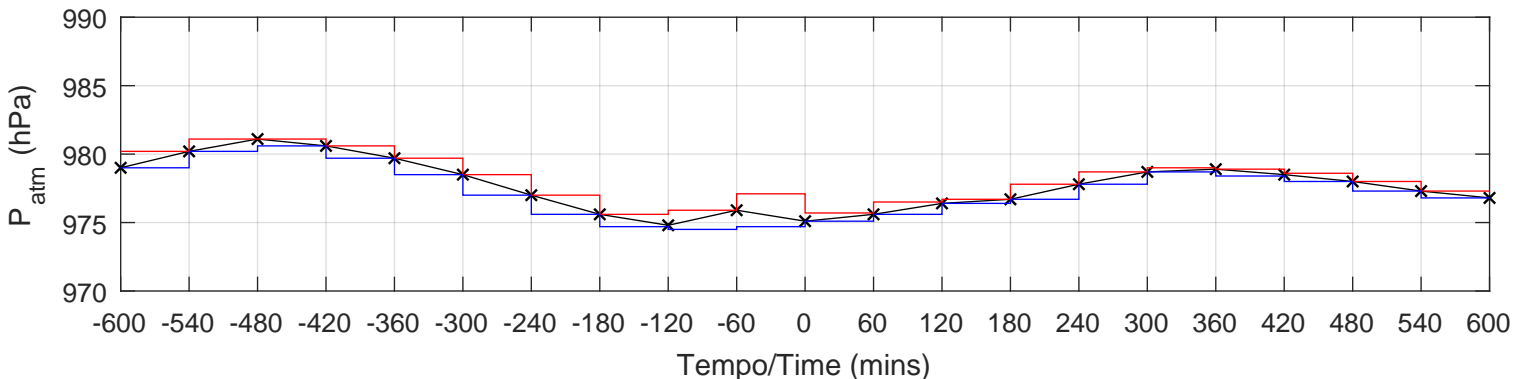
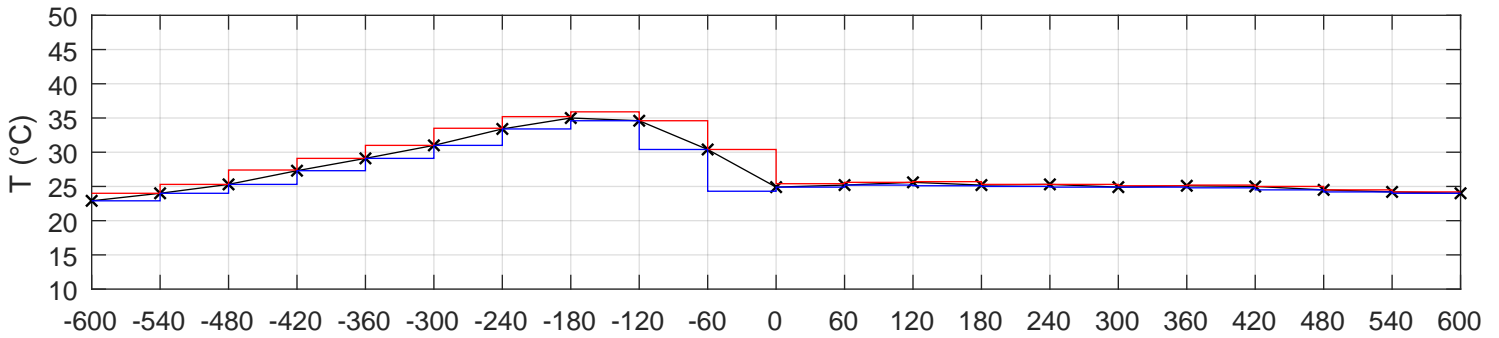
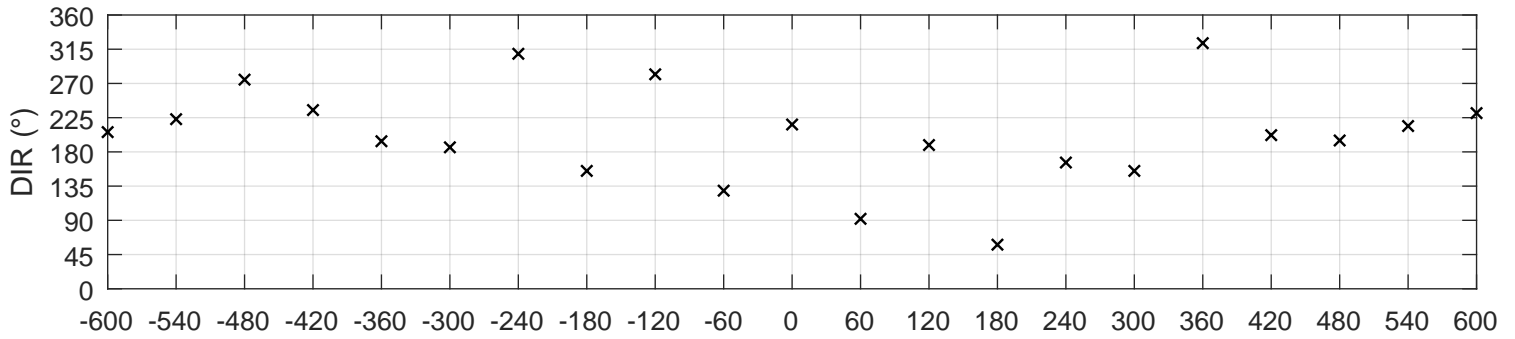
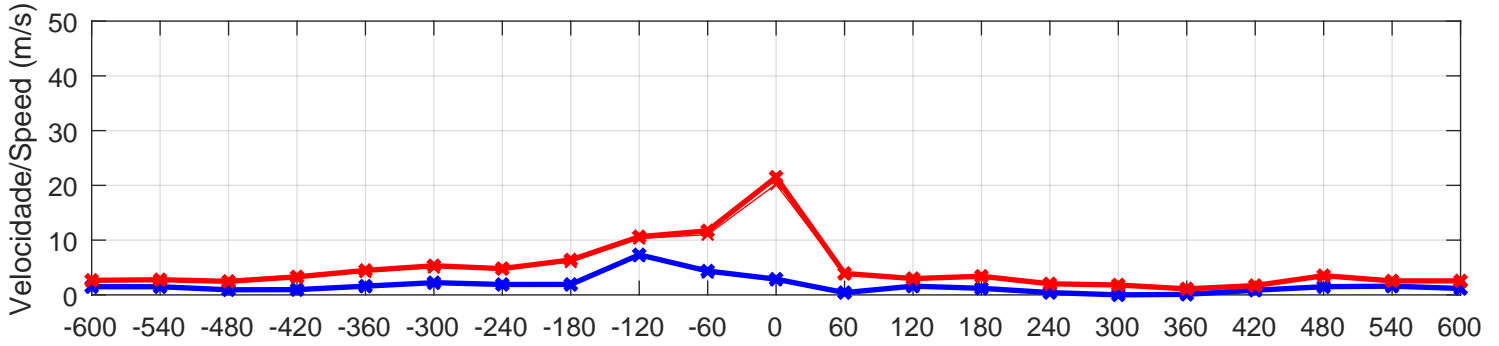
A336/81846 EVENTO/EVENT 7 - 11/09/2009, 15:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                          | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|--|--|---------------------------------|
| $G_{obs} = 20.6 \text{ m/s}$   | $R_{G,-6} = 2.5$ $R_{V,-6} = 1.4$ | $T_{med,3} = 29.7 \text{ }^\circ\text{C}$        | $DIR = 169^\circ$                      | SINÓTICO                        |
| $V_{obs} = 5.0 \text{ m/s}$    | $R_{G,-3} = 2.3$ $R_{V,-3} = 1.2$ | $\Delta T_{min,3} = -0.1 \text{ }^\circ\text{C}$ | $\Delta DIR_{max,-3} = 88^\circ$       | SYNOPTIC                        |
| $G_V = 4.1$                    | $R_{G,+3} = 2.3$ $R_{V,+3} = 1.4$ | $\Delta P_{max,3} = 0.4 \text{ hPa}$             | $\Delta DIR_{max,+3} = 70^\circ$       | (22)                            |
| $G_{cor} = 21.9 \text{ m/s}$   | $R_{G,+6} = 2.4$ $R_{V,+6} = 1.5$ | $\Delta$ Grupo/Group = 3                         |  |                                 |
| $V_{cor} = 5.3 \text{ m/s}$    |                                   |  |  |                                 |



### A336/81846 EVENTO/EVENT 8 - 18/11/2010, 19:00 UTC (WRDS - DISME)

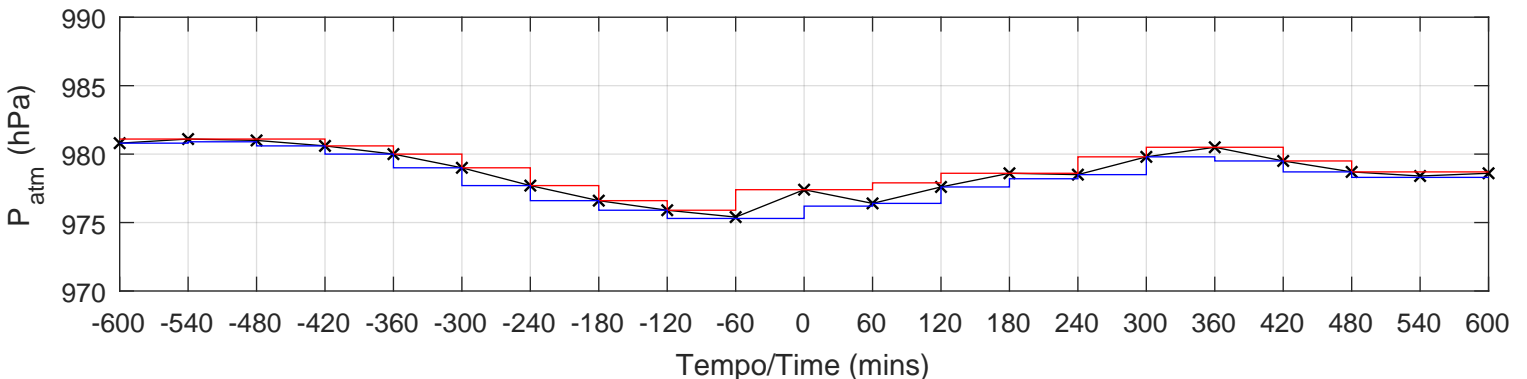
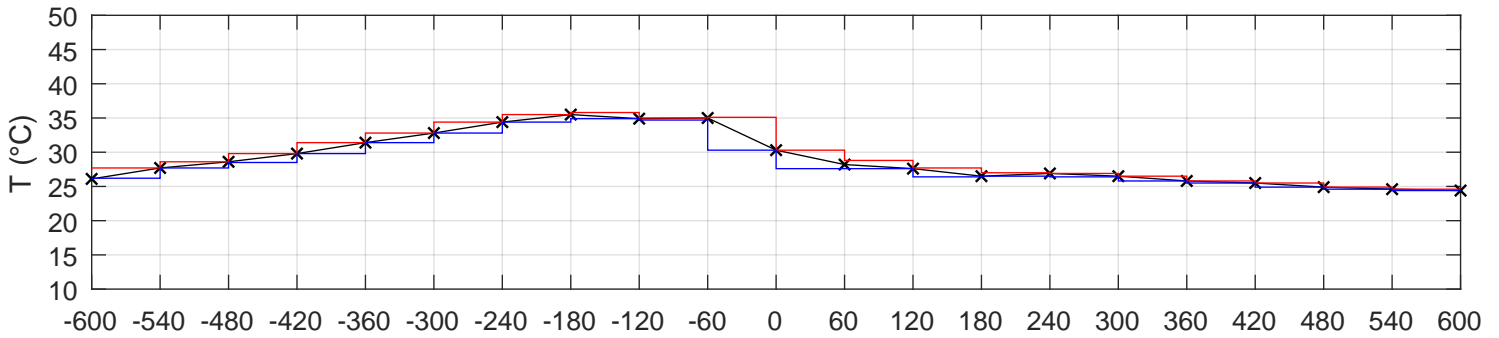
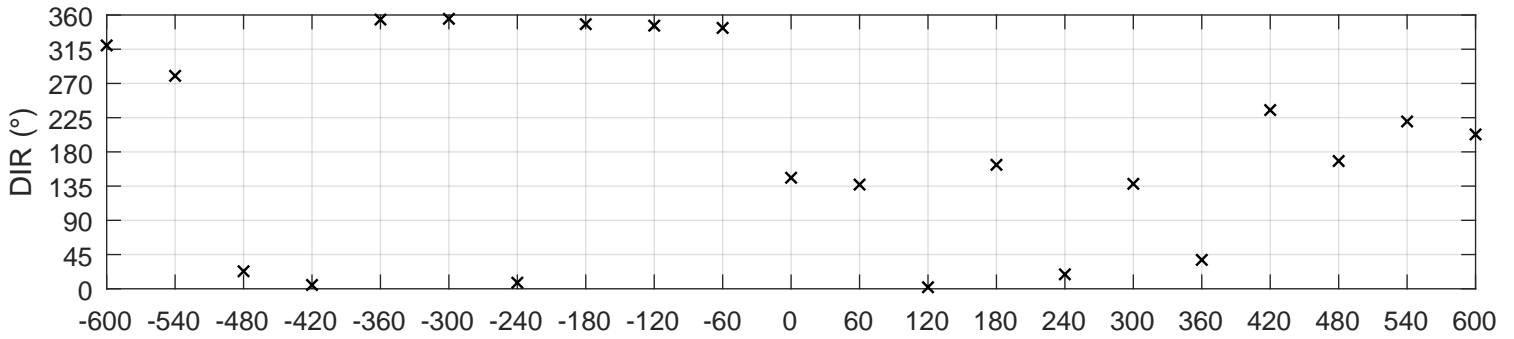
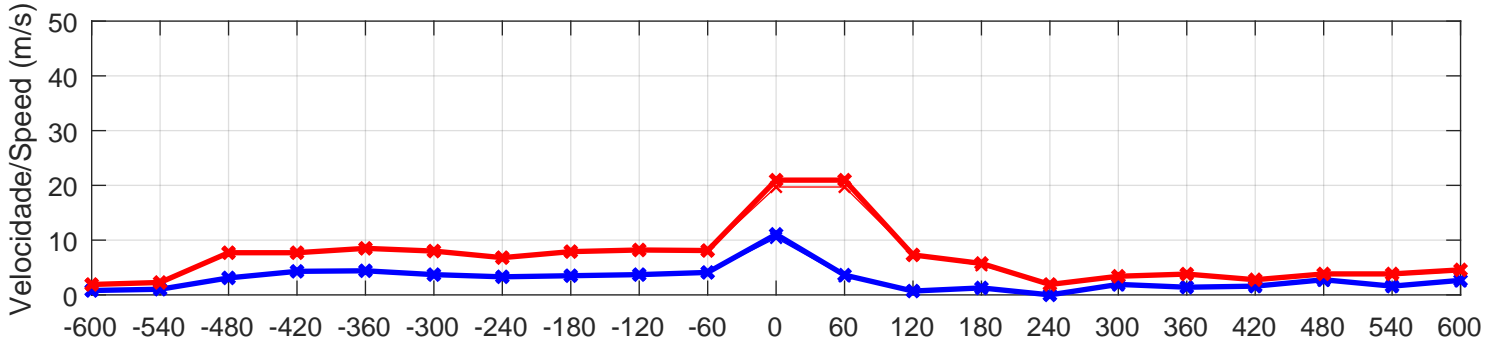
| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | Δ Temp. & Press.                      | Δ Direção<br>Δ Direction          | Classificação<br>Classification      |
|--------------------------------|-----------------------------------|---------------------------------------|-----------------------------------|--------------------------------------|
| $G_{obs} = 20.2 \text{ m/s}$   | $R_{G,-6} = 2.9$ $R_{V,-6} = 1.6$ | $T_{med,3} = 33.3 \text{ °C}$         | $DIR = 216^\circ$                 | NÃO-SINÓTICO<br>NON-SYNOPTIC<br>(10) |
| $V_{obs} = 4.1 \text{ m/s}$    | $R_{G,-3} = 2.2$ $R_{V,-3} = 1.1$ | $\Delta T_{min,3} = -10.3 \text{ °C}$ | $\Delta DIR_{max,-3} = 87^\circ$  |                                      |
| $G_V = 4.9$                    | $R_{G,+3} = 6.1$ $R_{V,+3} = 2.7$ | $\Delta P_{max,3} = 2.6 \text{ hPa}$  | $\Delta DIR_{max,+3} = 158^\circ$ |                                      |
| $G_{cor} = 21.5 \text{ m/s}$   | $R_{G,+6} = 8.2$ $R_{V,+6} = 4.0$ | $\Delta \text{ Grupo/Group} = 1$      |                                   |                                      |
| $V_{cor} = 4.4 \text{ m/s}$    |                                   |                                       |                                   |                                      |





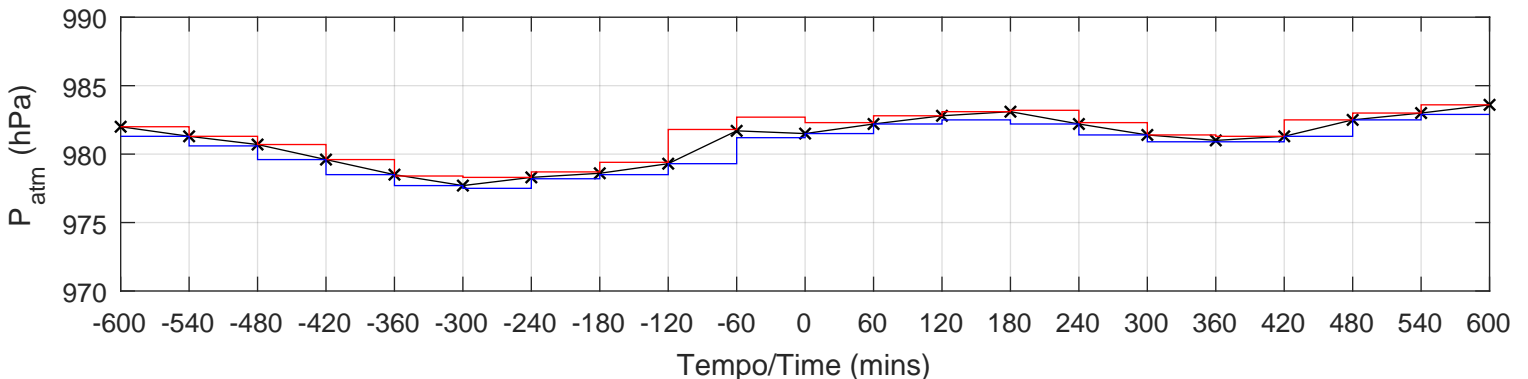
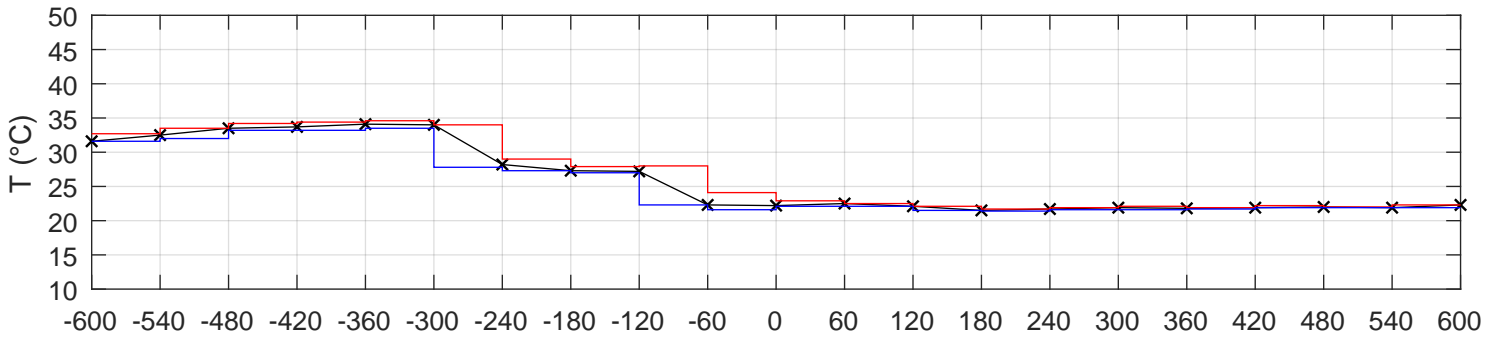
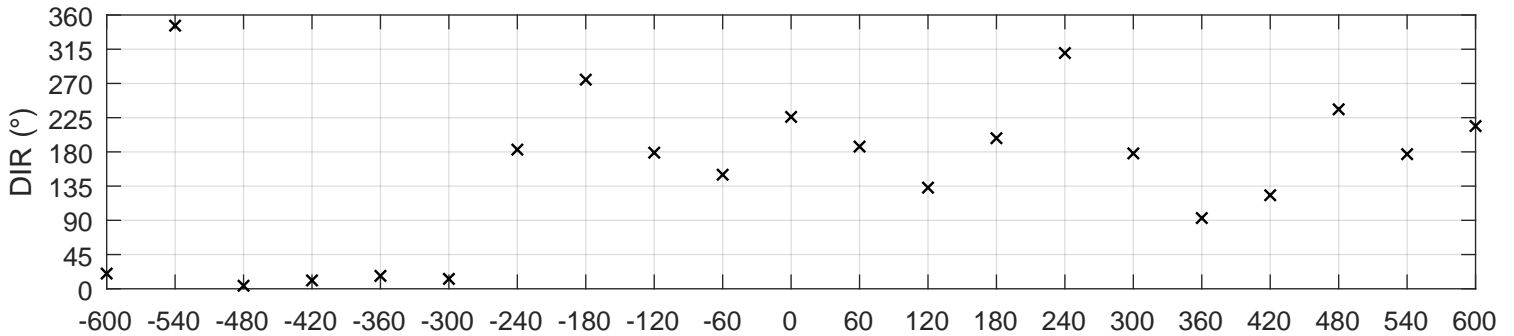
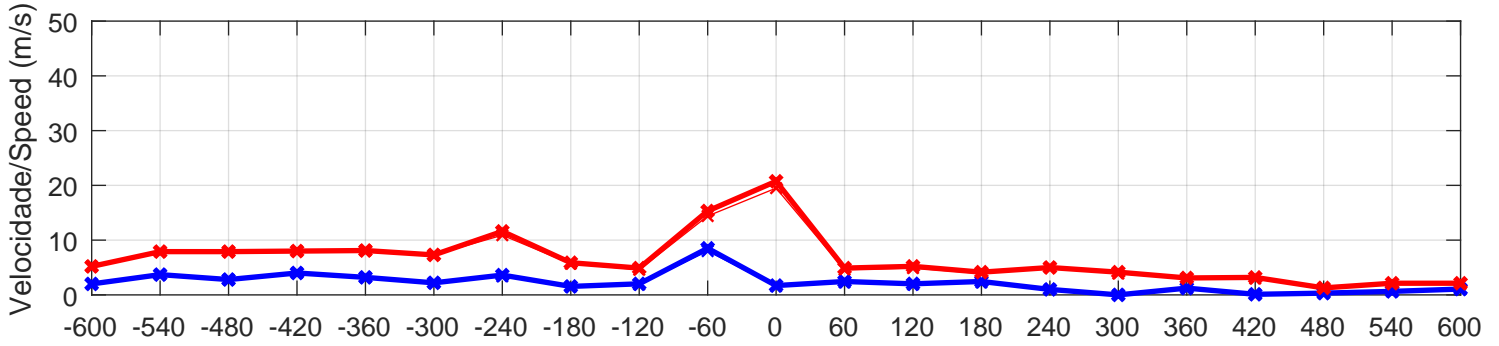
A336/81846 EVENTO/EVENT 9 - 30/11/2009, 20:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                          | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|--|--|---------------------------------|
| $G_{obs} = 19.7 \text{ m/s}$   | $R_{G,-6} = 2.5$ $R_{V,-6} = 2.7$ | $T_{med,3} = 35.1 \text{ }^\circ\text{C}$        | $DIR = 146^\circ$                      | NÃO-SINÓTICO                    |
| $V_{obs} = 10.4 \text{ m/s}$   | $R_{G,-3} = 2.4$ $R_{V,-3} = 2.8$ | $\Delta T_{min,3} = -7.5 \text{ }^\circ\text{C}$ | $\Delta DIR_{max,-3} = 163^\circ$      | NON-SYNOPTIC                    |
| $G_V = 1.9$                    | $R_{G,+3} = 1.8$ $R_{V,+3} = 5.9$ | $\Delta P_{max,3} = 2.1 \text{ hPa}$             | $\Delta DIR_{max,+3} = 144^\circ$      | (10)                            |
| $G_{cor} = 21.0 \text{ m/s}$   | $R_{G,+6} = 2.9$ $R_{V,+6} = 7.3$ | $\Delta$ Grupo/Group = 1                         |  |                                 |
| $V_{cor} = 11.1 \text{ m/s}$   |                                   |  |  |                                 |



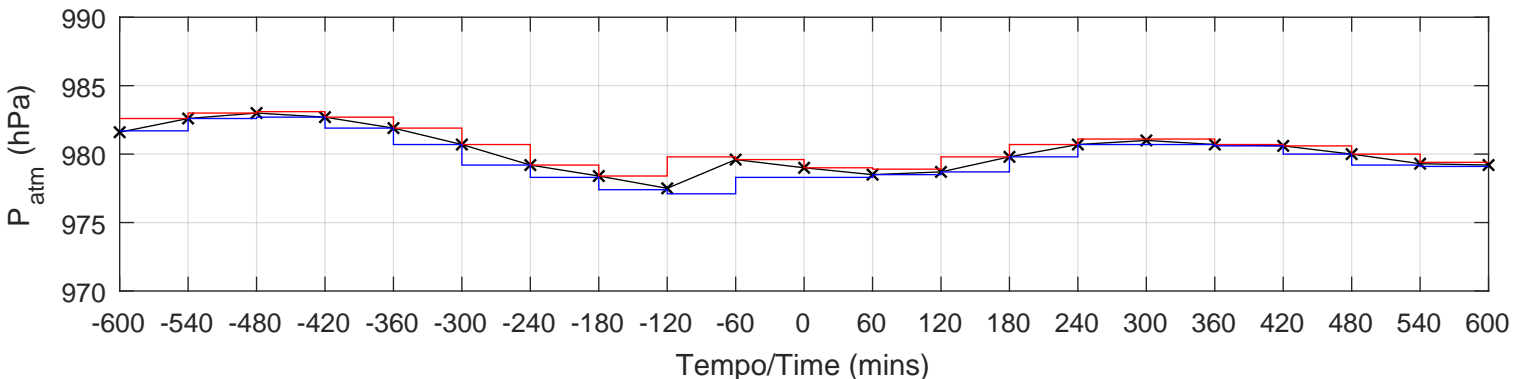
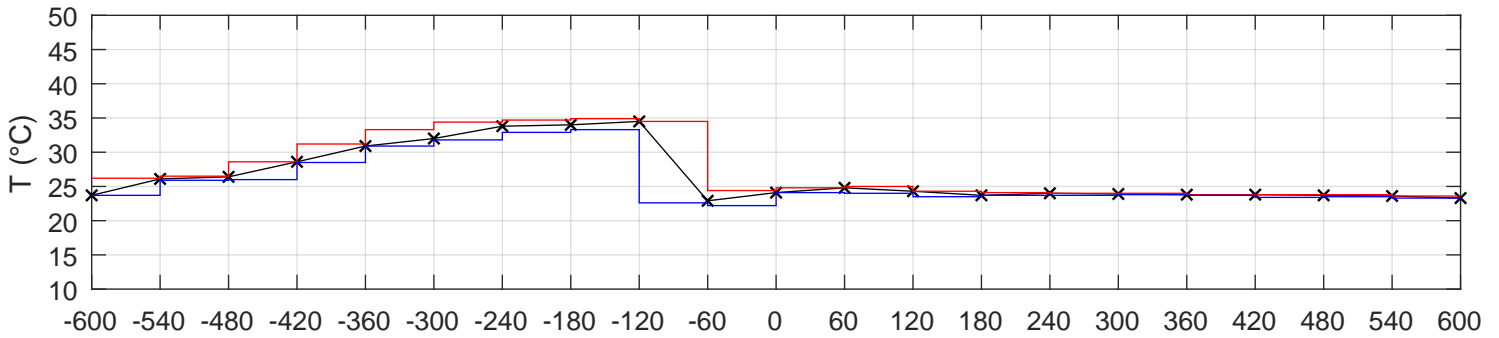
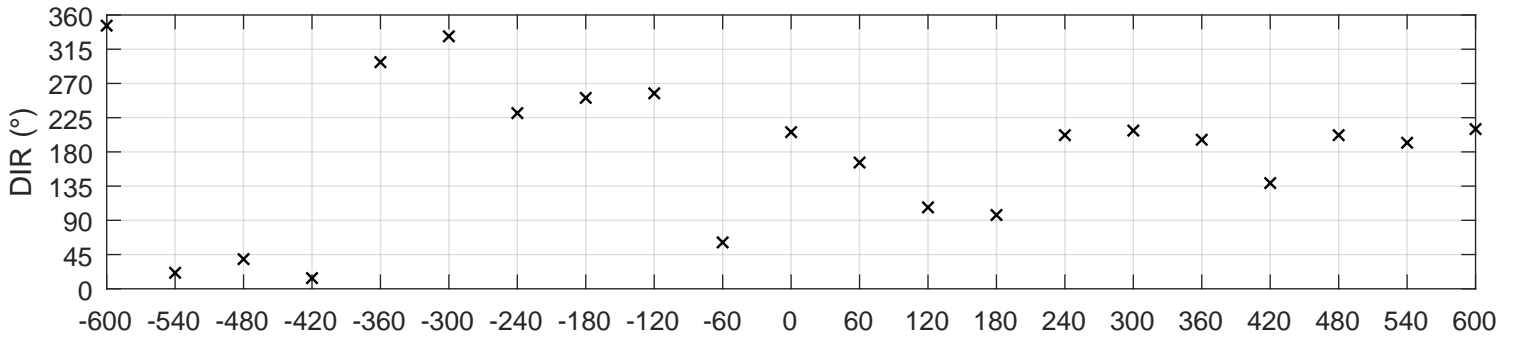
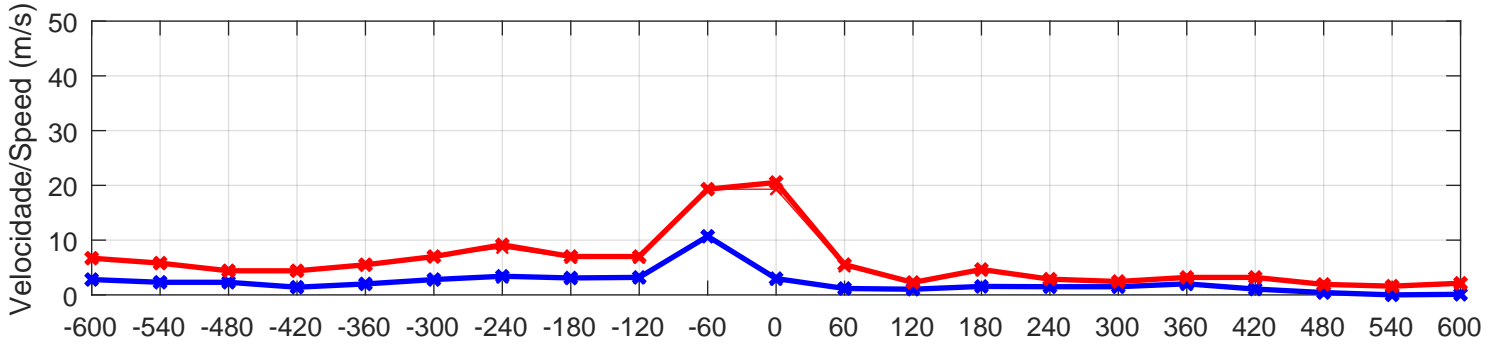
A336/81846 EVENTO/EVENT 10 - 14/01/2019, 00:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                          | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|--|--|---------------------------------|
| $G_{obs} = 19.5 \text{ m/s}$   | $R_{G,-6} = 2.3$ $R_{V,-6} = 3.0$ | $T_{med,3} = 25.6 \text{ }^\circ\text{C}$        | $DIR = 226^\circ$                      | NÃO-SINÓTICO                    |
| $V_{obs} = 8.0 \text{ m/s}$    | $R_{G,-3} = 2.4$ $R_{V,-3} = 3.5$ | $\Delta T_{min,3} = -6.4 \text{ }^\circ\text{C}$ | $\Delta DIR_{max,-3} = 76^\circ$       | NON-SYNOPTIC                    |
| $G_V = 2.4$                    | $R_{G,+3} = 4.4$ $R_{V,+3} = 4.1$ | $\Delta P_{max,3} = 3.4 \text{ hPa}$             | $\Delta DIR_{max,+3} = 93^\circ$       | (10)                            |
| $G_{cor} = 20.7 \text{ m/s}$   | $R_{G,+6} = 4.6$ $R_{V,+6} = 5.3$ | $\Delta$ Grupo/Group = 1                         |  |                                 |
| $V_{cor} = 8.5 \text{ m/s}$    |                                   |  |  |                                 |



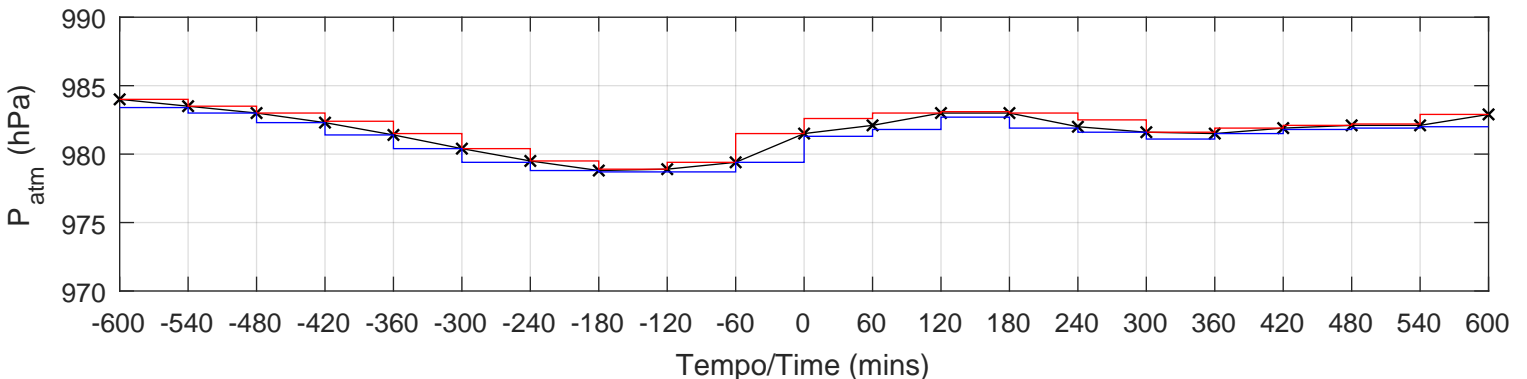
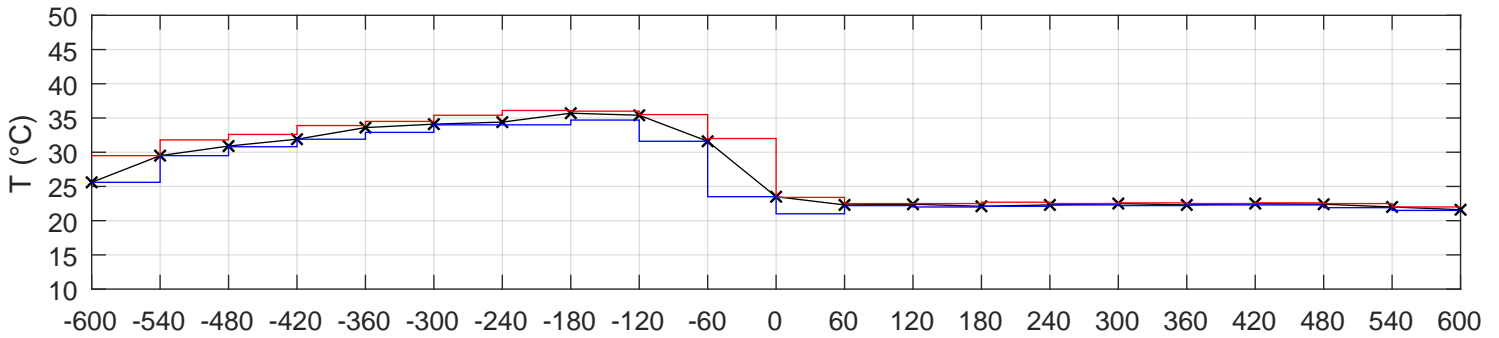
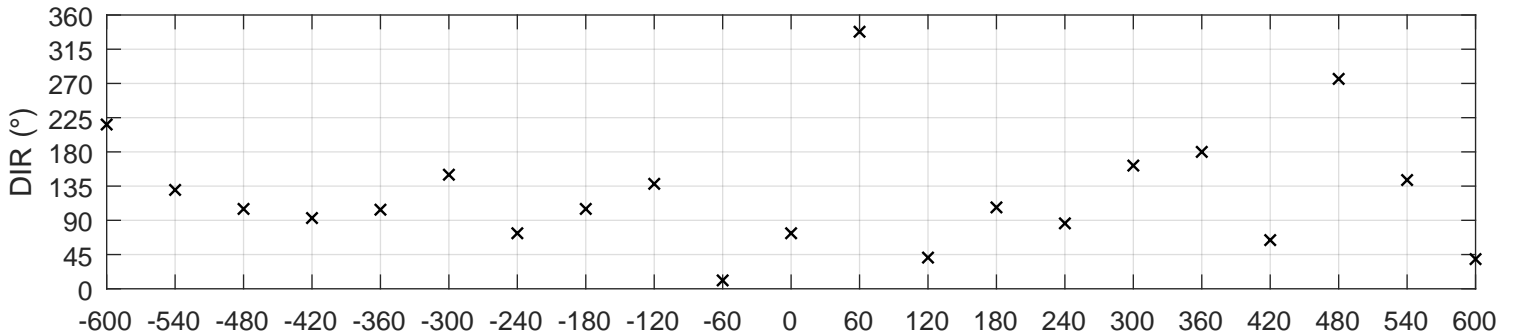
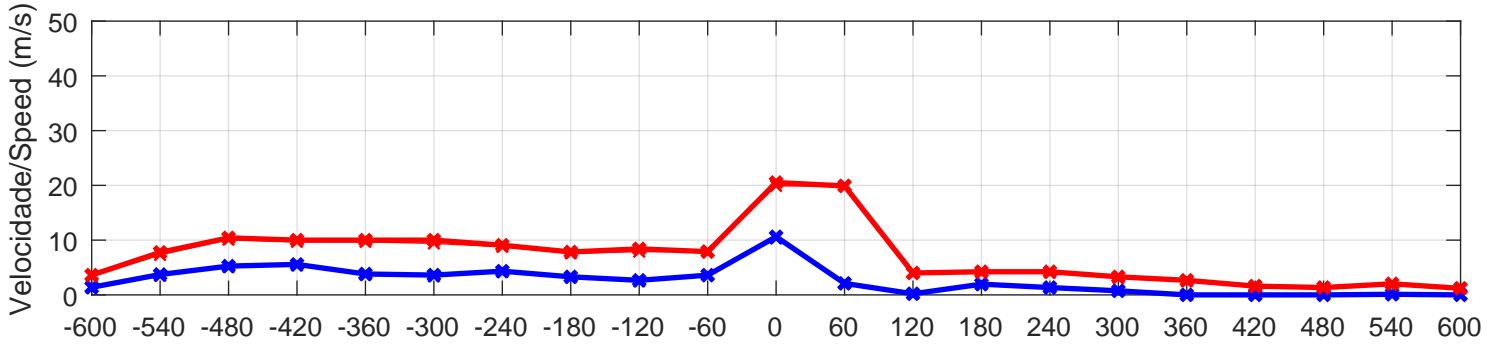
A336/81846 EVENTO/EVENT 11 - 25/11/2015, 20:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                           | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|---|--|---------------------------------|
| $G_{obs} = 19.3 \text{ m/s}$   | $R_{G,-6} = 2.1$ $R_{V,-6} = 4.1$ | $T_{med,3} = 30.5 \text{ }^\circ\text{C}$         | $DIR = 206^\circ$                      | NÃO-SINÓTICO                    |
| $V_{obs} = 10.7 \text{ m/s}$   | $R_{G,-3} = 1.8$ $R_{V,-3} = 3.5$ | $\Delta T_{min,3} = -12.3 \text{ }^\circ\text{C}$ | $\Delta DIR_{max,-3} = 145^\circ$      | NON-SYNOPTIC                    |
| $G_V = 1.8$                    | $R_{G,+3} = 4.9$ $R_{V,+3} = 6.6$ | $\Delta P_{max,3} = 2.5 \text{ hPa}$              | $\Delta DIR_{max,+3} = 109^\circ$      | (10)                            |
| $G_{cor} = 20.5 \text{ m/s}$   | $R_{G,+6} = 5.8$ $R_{V,+6} = 7.0$ | $\Delta$ Grupo/Group = 1                          |  |                                 |
| $V_{cor} = 10.7 \text{ m/s}$   |                                   |   |  |                                 |



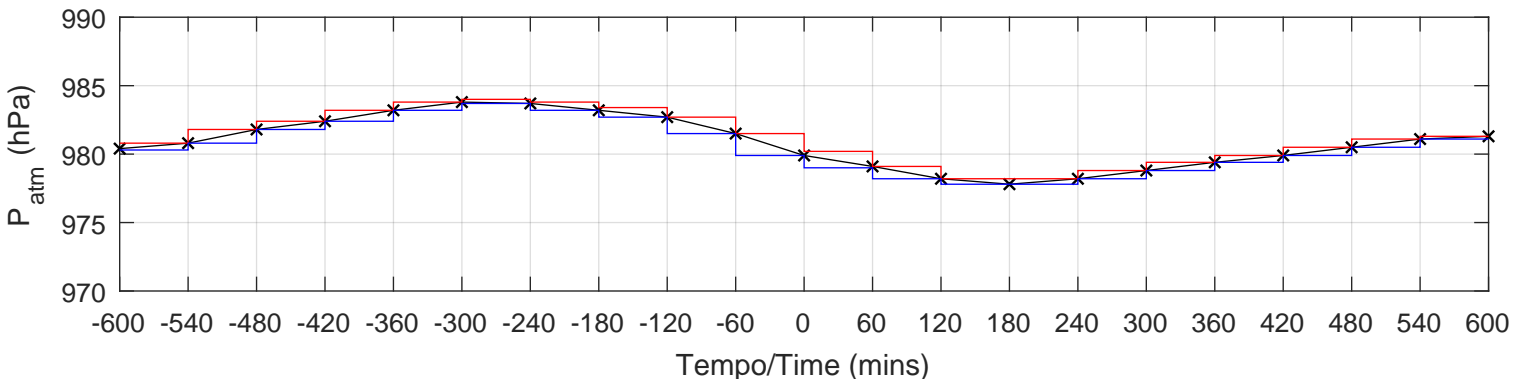
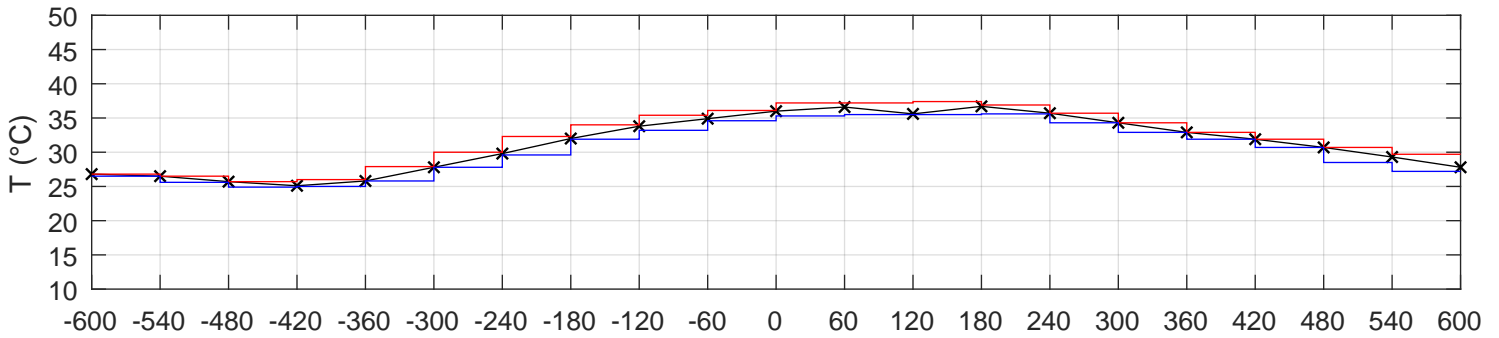
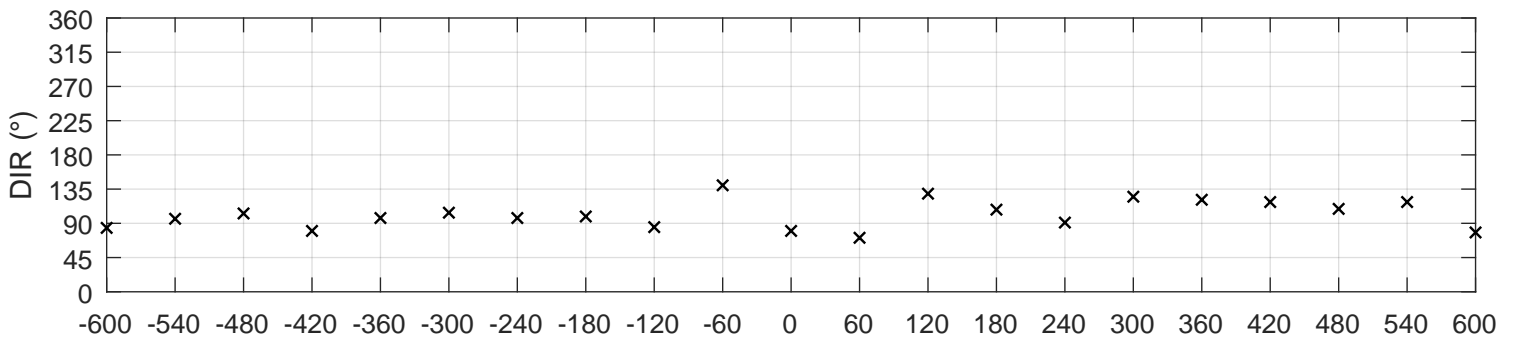
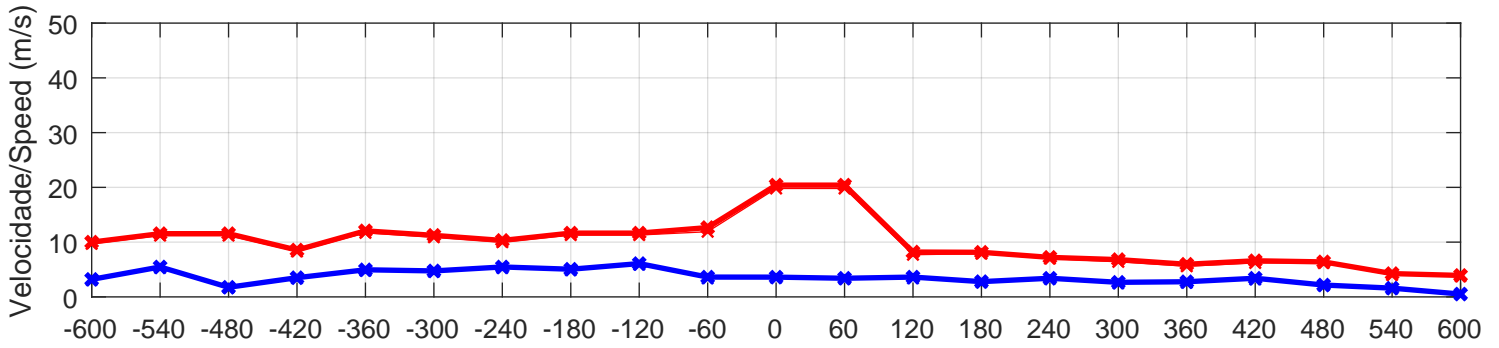
A336/81846 EVENTO/EVENT 12 - 07/01/2019, 22:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios      | $\Delta$ Temp. & Press.                           | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|------------------------------------|---|--|---------------------------------|
| $G_{obs} = 19.9 \text{ m/s}$   | $R_{G,-6} = 2.3$ $R_{V,-6} = 3.0$  | $T_{med,3} = 34.2 \text{ }^\circ\text{C}$         | $DIR = 73^\circ$                       | NÃO-SINÓTICO                    |
| $V_{obs} = 10.3 \text{ m/s}$   | $R_{G,-3} = 2.6$ $R_{V,-3} = 3.3$  | $\Delta T_{min,3} = -12.0 \text{ }^\circ\text{C}$ | $\Delta DIR_{max,-3} = 65^\circ$       | NON-SYNOPTIC                    |
| $G_V = 1.9$                    | $R_{G,+3} = 2.1$ $R_{V,+3} = 7.4$  | $\Delta P_{max,3} = 3.2 \text{ hPa}$              | $\Delta DIR_{max,+3} = 95^\circ$       | (10)                            |
| $G_{cor} = 20.5 \text{ m/s}$   | $R_{G,+6} = 3.2$ $R_{V,+6} = 10.0$ | $\Delta$ Grupo/Group = 1                          |  |                                 |
| $V_{cor} = 10.6 \text{ m/s}$   |                                    |   |  |                                 |



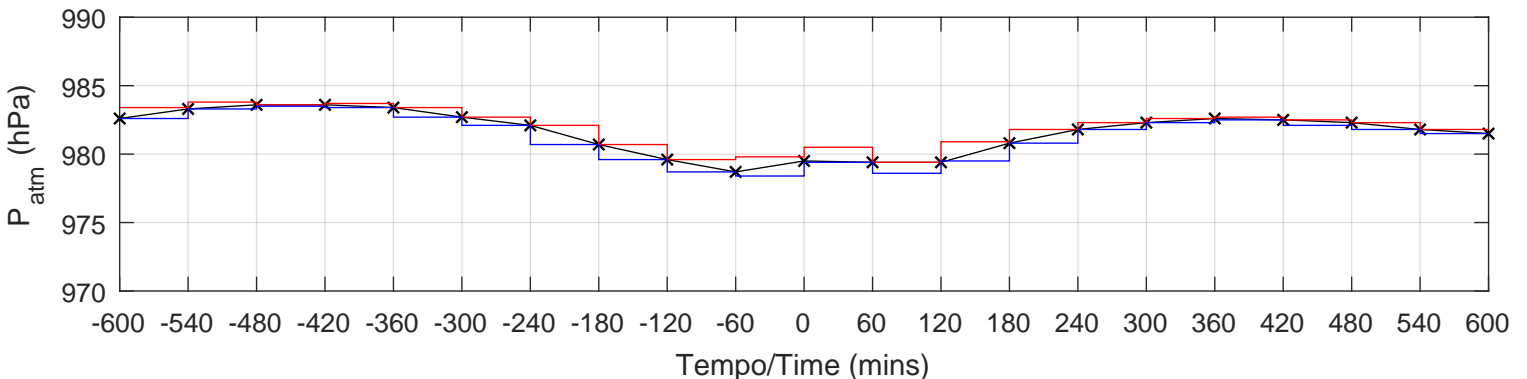
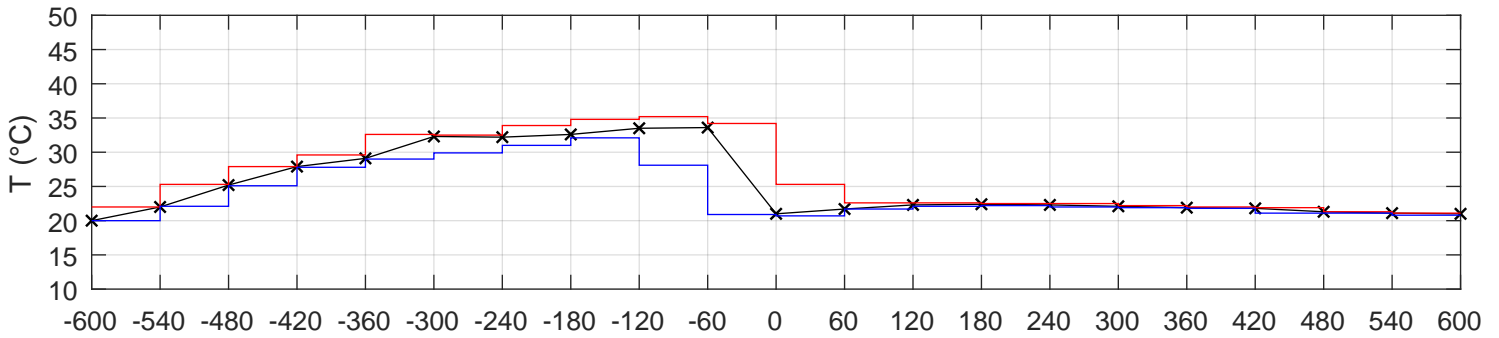
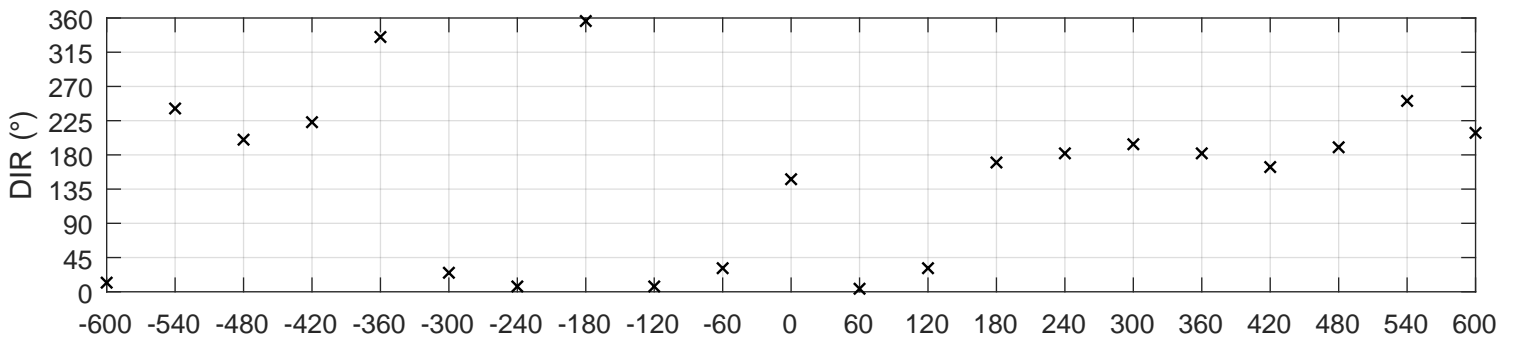
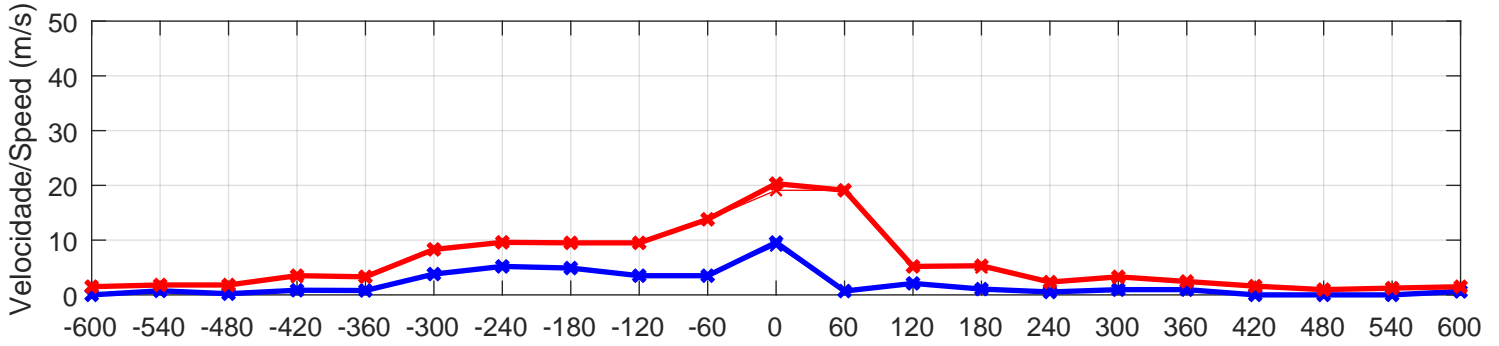
A336/81846 EVENTO/EVENT 13 - 06/10/2012, 16:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                          | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|--|--|---------------------------------|
| $G_{obs} = 19.8 \text{ m/s}$   | $R_{G,-6} = 1.8$ $R_{V,-6} = 0.7$ | $T_{med,3} = 33.6 \text{ }^\circ\text{C}$        | $DIR = 80^\circ$                       | SINÓTICO                        |
| $V_{obs} = 3.5 \text{ m/s}$    | $R_{G,-3} = 1.7$ $R_{V,-3} = 0.7$ | $\Delta T_{min,3} = -0.8 \text{ }^\circ\text{C}$ | $\Delta DIR_{max,-3} = 60^\circ$       | SYNOPTIC                        |
| $G_V = 5.7$                    | $R_{G,+3} = 1.7$ $R_{V,+3} = 1.1$ | $\Delta P_{max,3} = 0.3 \text{ hPa}$             | $\Delta DIR_{max,+3} = 49^\circ$       | (22)                            |
| $G_{cor} = 20.4 \text{ m/s}$   | $R_{G,+6} = 2.2$ $R_{V,+6} = 1.2$ | $\Delta$ Grupo/Group = 3                         |  |                                 |
| $V_{cor} = 3.6 \text{ m/s}$    |                                   |  |  |                                 |



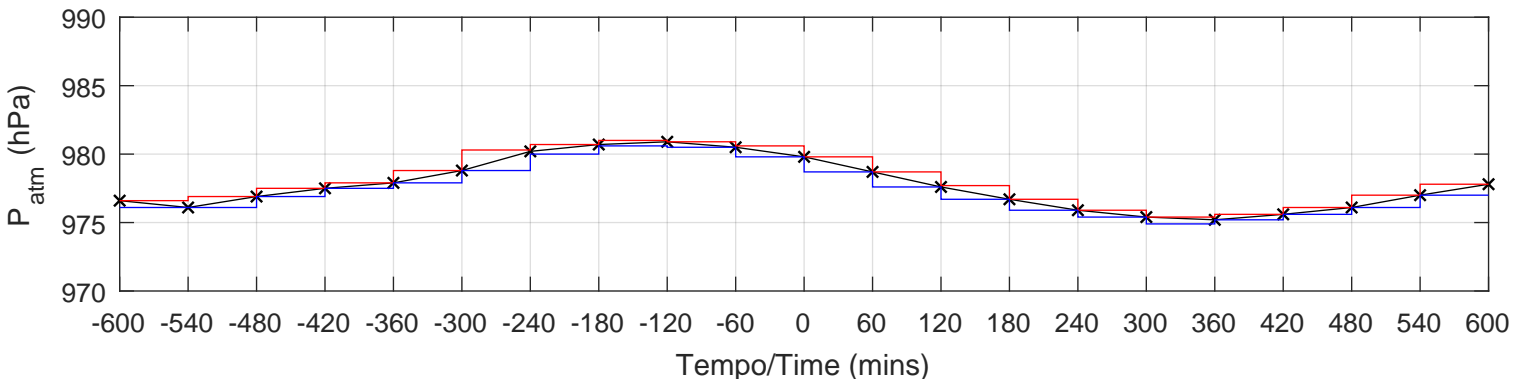
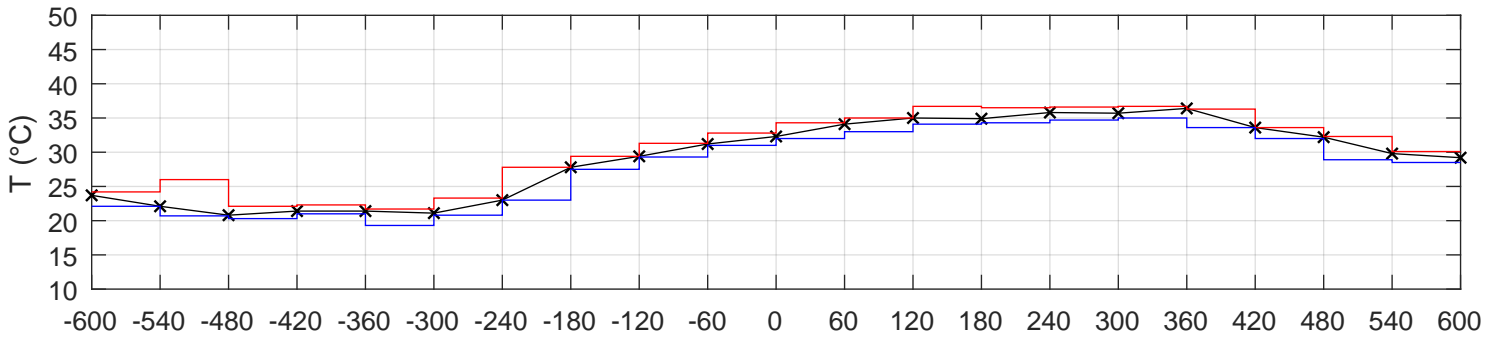
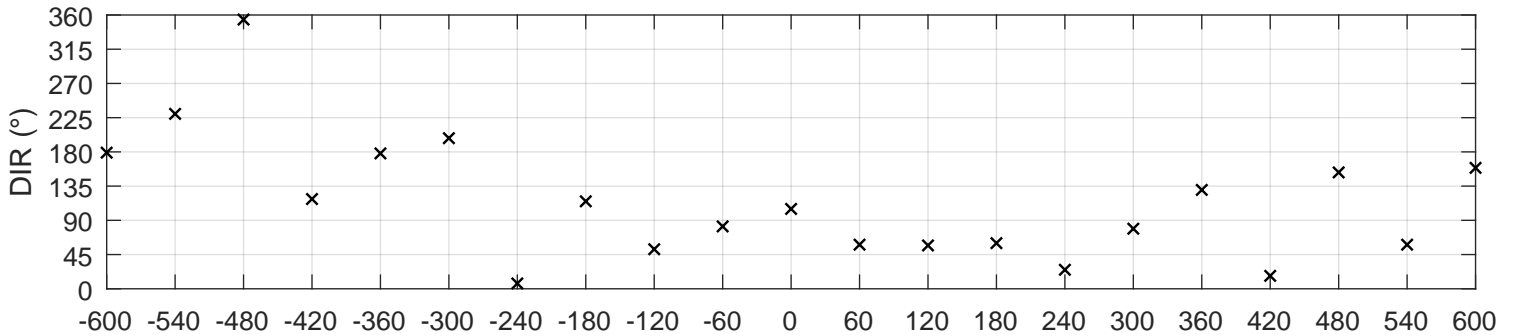
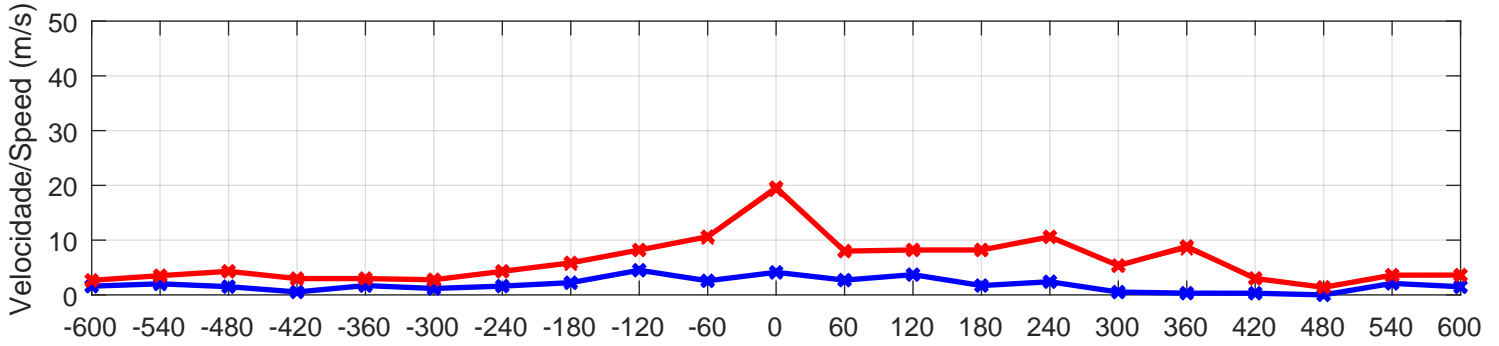
A336/81846 EVENTO/EVENT 14 - 16/01/2012, 19:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                           | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|---|--|---------------------------------|
| $G_{obs} = 19.1 \text{ m/s}$   | $R_{G,-6} = 2.1$ $R_{V,-6} = 2.5$ | $T_{med,3} = 33.2 \text{ }^\circ\text{C}$         | $DIR = 148^\circ$                      | NÃO-SINÓTICO                    |
| $V_{obs} = 9.0 \text{ m/s}$    | $R_{G,-3} = 1.7$ $R_{V,-3} = 2.3$ | $\Delta T_{min,3} = -14.3 \text{ }^\circ\text{C}$ | $\Delta DIR_{max,-3} = 152^\circ$      | NON-SYNOPTIC                    |
| $G_V = 2.1$                    | $R_{G,+3} = 2.0$ $R_{V,+3} = 7.1$ | $\Delta P_{max,3} = 2.1 \text{ hPa}$              | $\Delta DIR_{max,+3} = 144^\circ$      | (10)                            |
| $G_{cor} = 20.3 \text{ m/s}$   | $R_{G,+6} = 3.1$ $R_{V,+6} = 8.9$ | $\Delta$ Grupo/Group = 1                          |  |                                 |
| $V_{cor} = 9.6 \text{ m/s}$    |                                   |   |  |                                 |



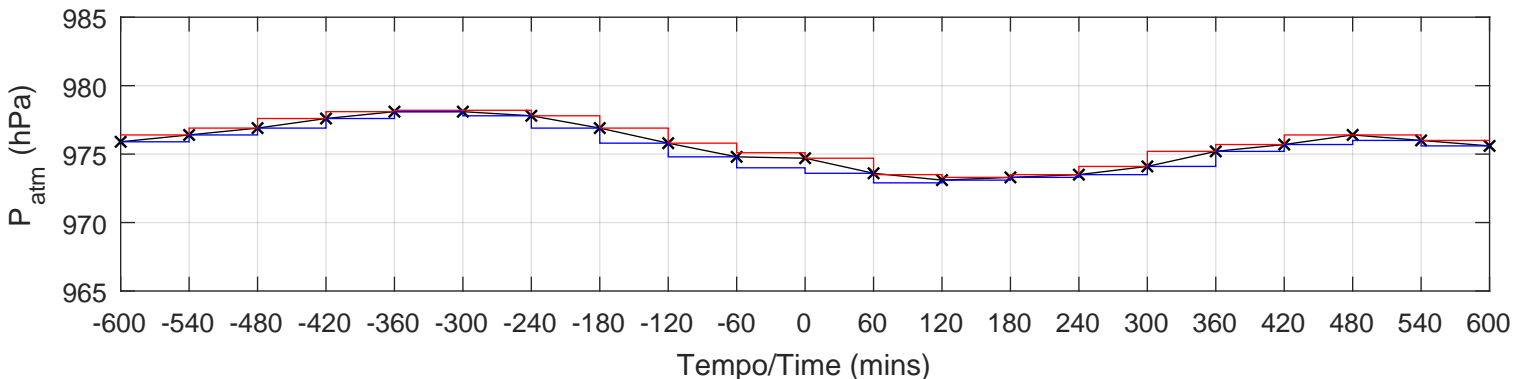
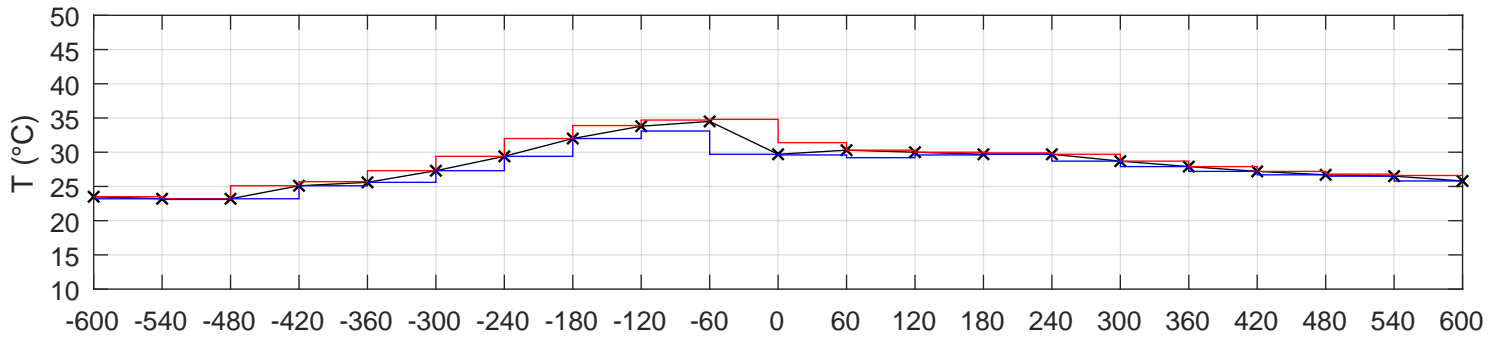
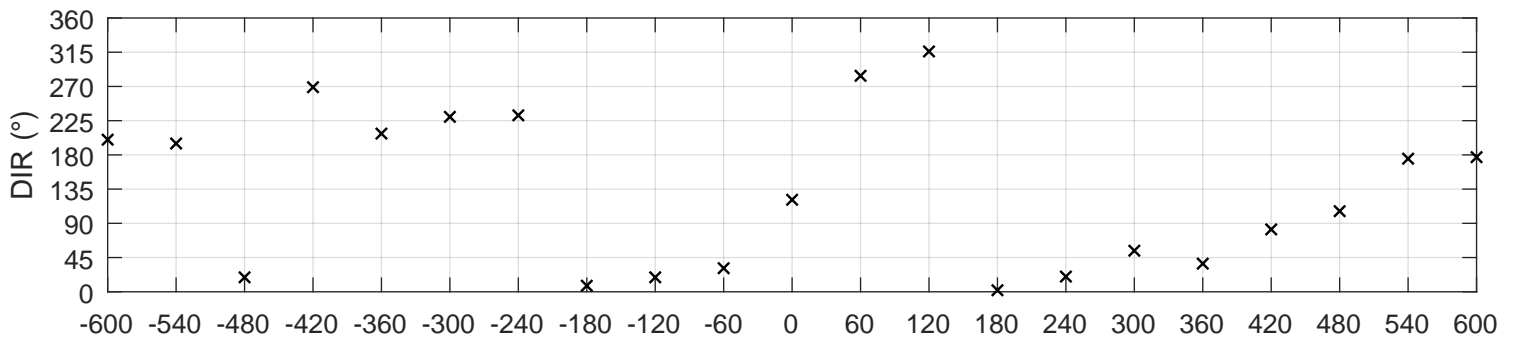
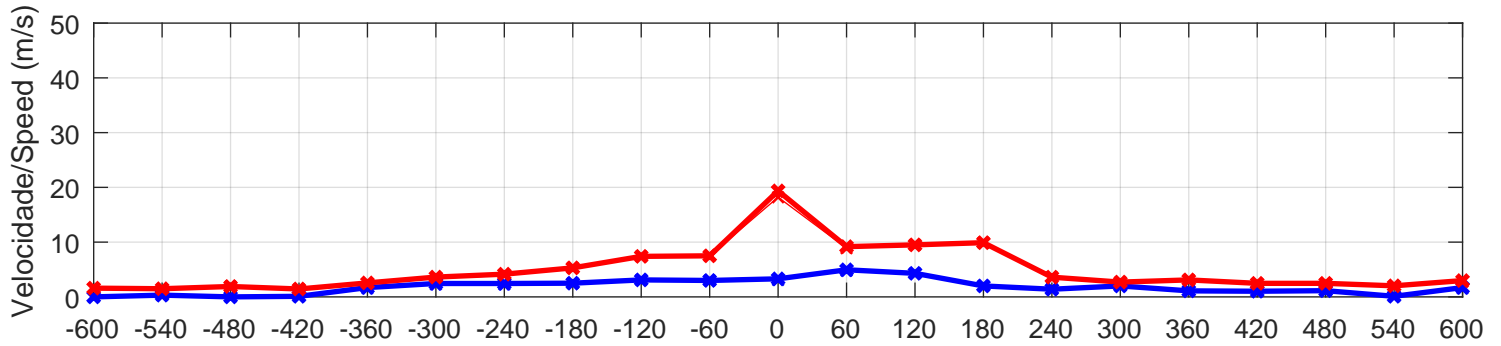
A336/81846 EVENTO/EVENT 15 - 07/12/2011, 14:00 UTC (WRDS - DISME)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.      | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|------------------------------|--|---------------------------------|
| $G_{obs} = 19.0$ m/s           | $R_{G,-6} = 3.4$ $R_{V,-6} = 1.8$ | $T_{med,3} = 29.5$ °C        | DIR = 105°                             | SINÓTICO                        |
| $V_{obs} = 4.0$ m/s            | $R_{G,-3} = 2.4$ $R_{V,-3} = 1.3$ | $\Delta T_{min,3} = -0.8$ °C | $\Delta DIR_{max,-3} = 53^\circ$       | SYNOPTIC                        |
| $G_V = 4.8$                    | $R_{G,+3} = 2.3$ $R_{V,+3} = 1.5$ | $\Delta P_{max,3} = 0.3$ hPa | $\Delta DIR_{max,+3} = 48^\circ$       | (22)                            |
| $G_{cor} = 19.6$ m/s           | $R_{G,+6} = 2.4$ $R_{V,+6} = 2.1$ | $\Delta$ Grupo/Group = 3     |  |                                 |
| $V_{cor} = 4.1$ m/s            |                                   |                              |  |                                 |



A336/81846 EVENTO/EVENT 16 - 23/11/2010, 17:00 UTC (WRDS - DISME)

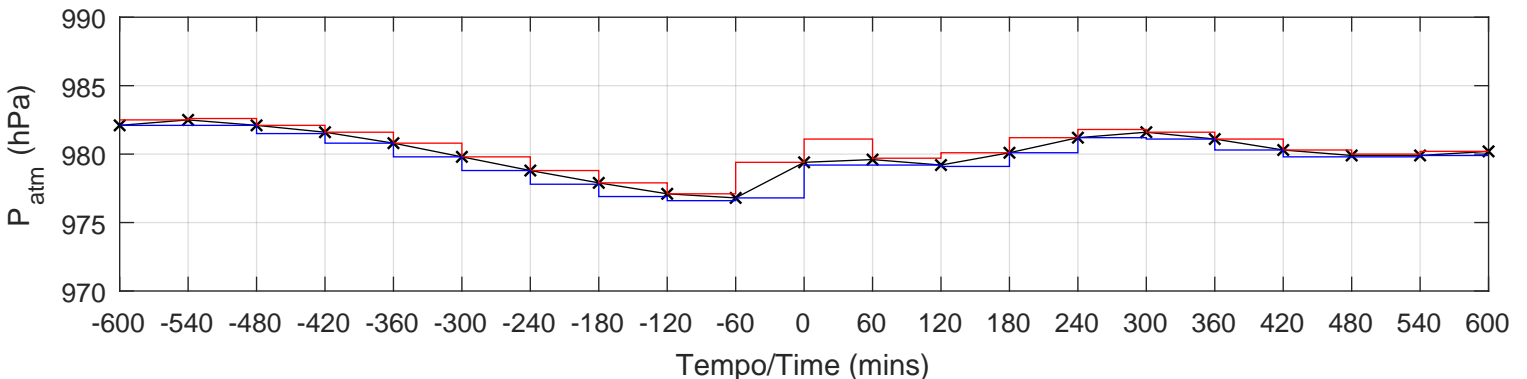
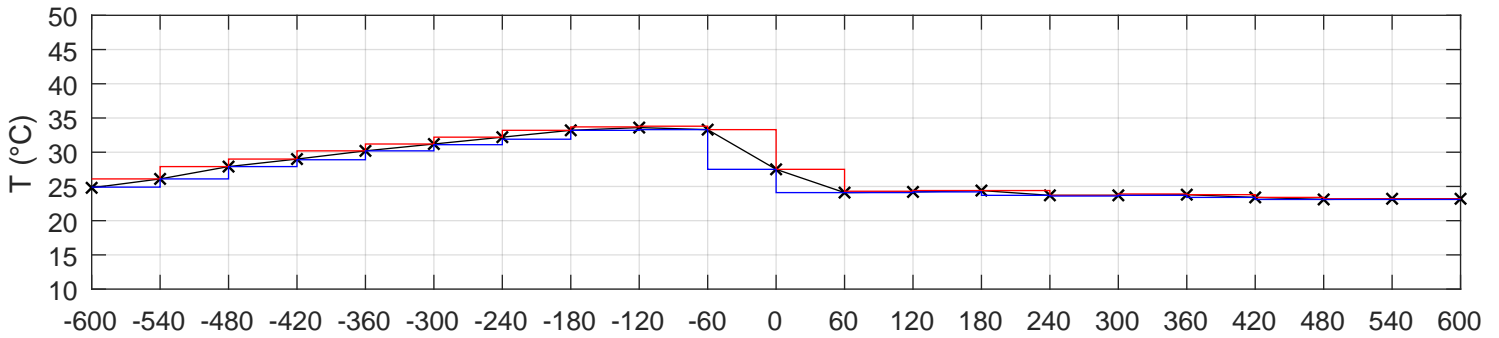
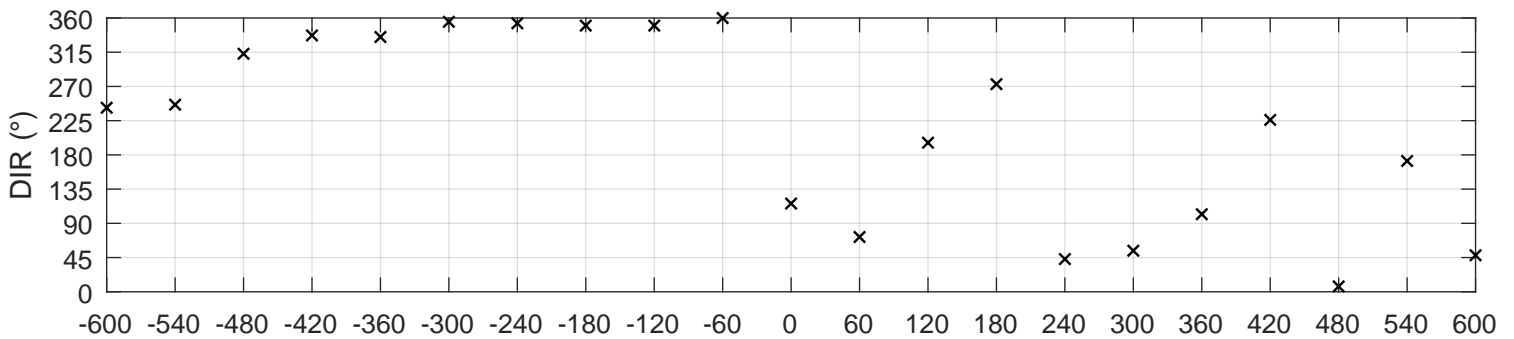
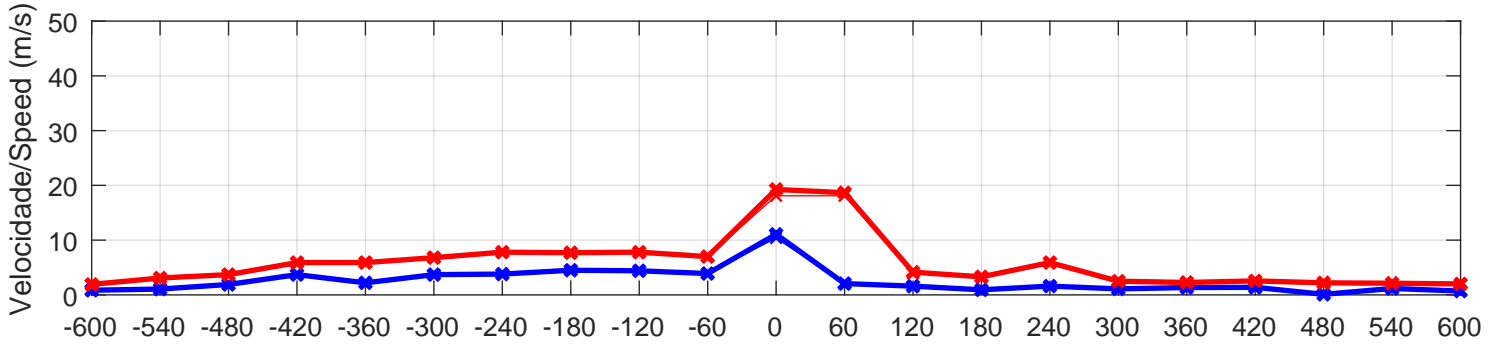
| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                          | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|--|--|---------------------------------|
| $G_{obs} = 18.2 \text{ m/s}$   | $R_{G,-6} = 3.7$ $R_{V,-6} = 1.3$ | $T_{med,3} = 33.4 \text{ }^\circ\text{C}$        | $DIR = 121^\circ$                      | SINÓTICO                        |
| $V_{obs} = 3.1 \text{ m/s}$    | $R_{G,-3} = 2.7$ $R_{V,-3} = 1.1$ | $\Delta T_{min,3} = -5.2 \text{ }^\circ\text{C}$ | $\Delta DIR_{max,-3} = 113^\circ$      | SYNOPTIC                        |
| $G_V = 5.9$                    | $R_{G,+3} = 1.9$ $R_{V,+3} = 0.8$ | $\Delta P_{max,3} = 0.7 \text{ hPa}$             | $\Delta DIR_{max,+3} = 165^\circ$      | (22)                            |
| $G_{cor} = 19.4 \text{ m/s}$   | $R_{G,+6} = 2.9$ $R_{V,+6} = 1.2$ | $\Delta$ Grupo/Group = 3                         |  |                                 |
| $V_{cor} = 3.3 \text{ m/s}$    |                                   |  |  |                                 |





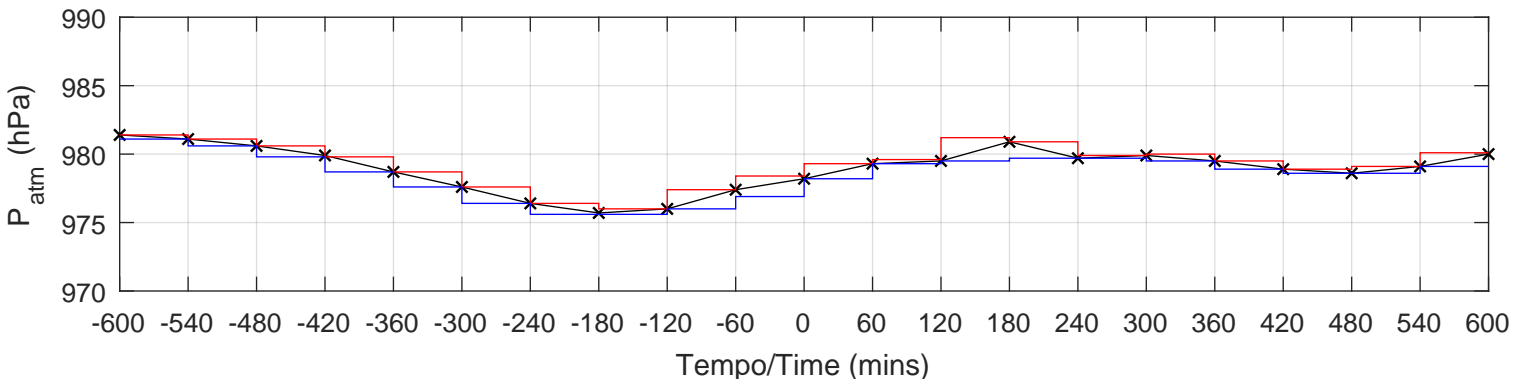
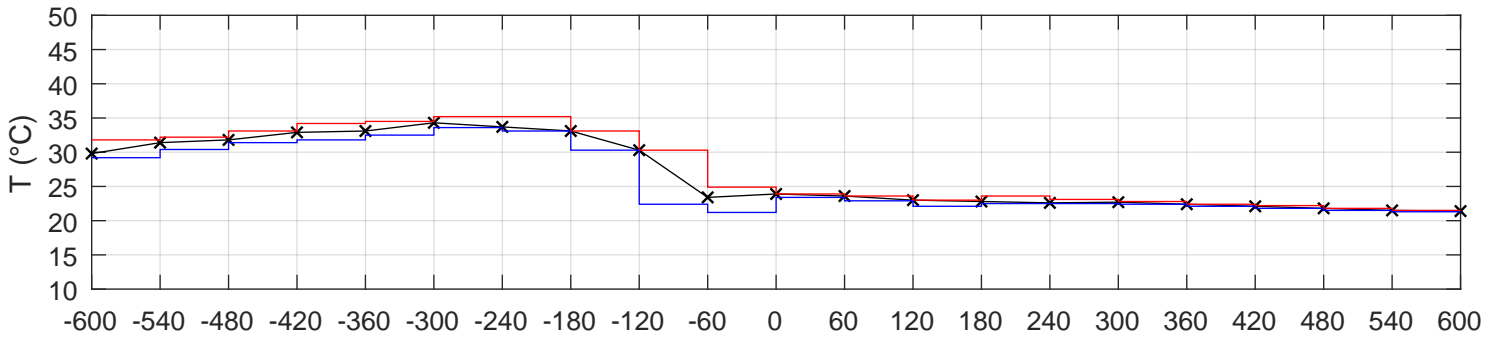
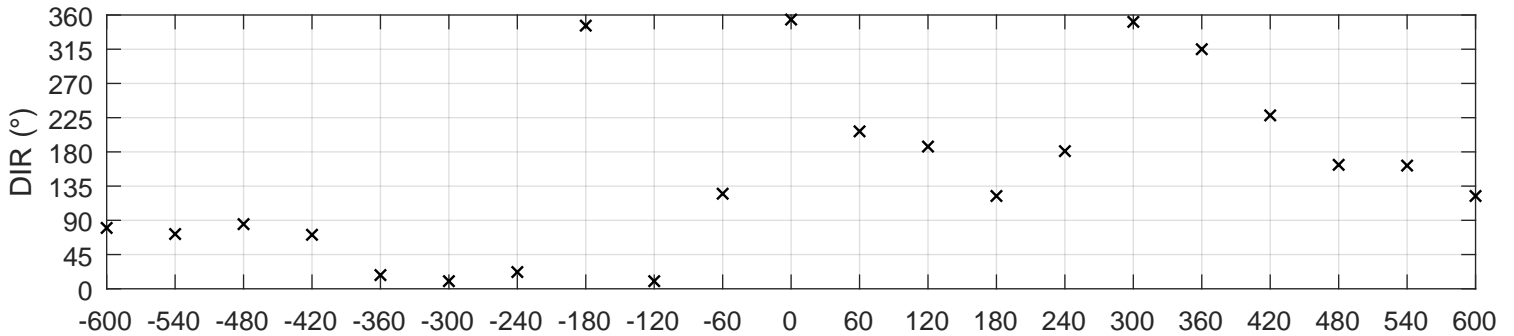
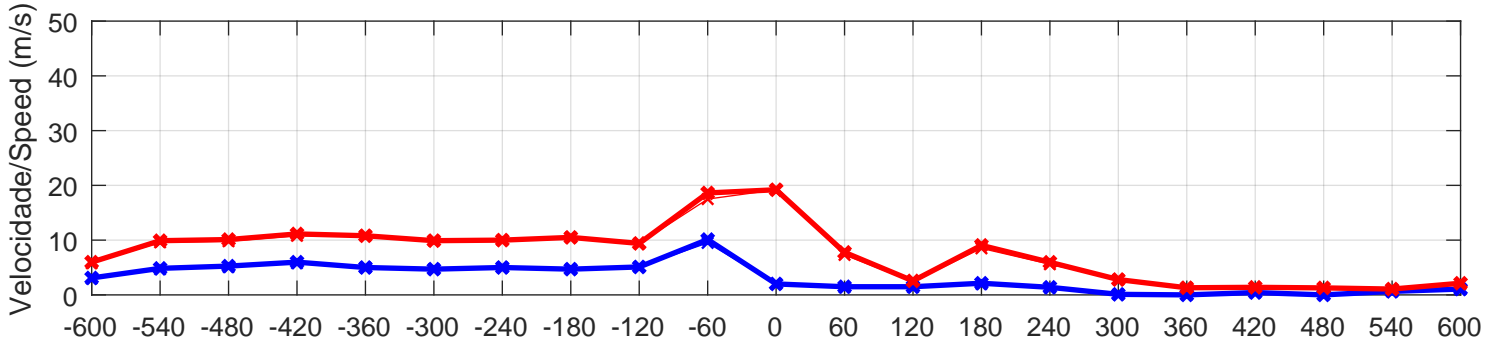
A336/81846 EVENTO/EVENT 17 - 17/02/2010, 21:00 UTC (WRDS - DISME)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                          | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|--|--|---------------------------------|
| $G_{obs} = 18.1 \text{ m/s}$   | $R_{G,-6} = 2.5$ $R_{V,-6} = 2.8$ | $T_{med,3} = 33.4 \text{ }^\circ\text{C}$        | $DIR = 116^\circ$                      | NÃO-SINÓTICO                    |
| $V_{obs} = 10.4 \text{ m/s}$   | $R_{G,-3} = 2.4$ $R_{V,-3} = 2.4$ | $\Delta T_{min,3} = -9.2 \text{ }^\circ\text{C}$ | $\Delta DIR_{max,-3} = 126^\circ$      | NON-SYNOPTIC                    |
| $G_V = 1.7$                    | $R_{G,+3} = 2.2$ $R_{V,+3} = 7.1$ | $\Delta P_{max,3} = 4.3 \text{ hPa}$             | $\Delta DIR_{max,+3} = 157^\circ$      | (10)                            |
| $G_{cor} = 19.3 \text{ m/s}$   | $R_{G,+6} = 3.0$ $R_{V,+6} = 7.4$ | $\Delta$ Grupo/Group = 1                         |  |                                 |
| $V_{cor} = 11.1 \text{ m/s}$   |                                   |  |  |                                 |



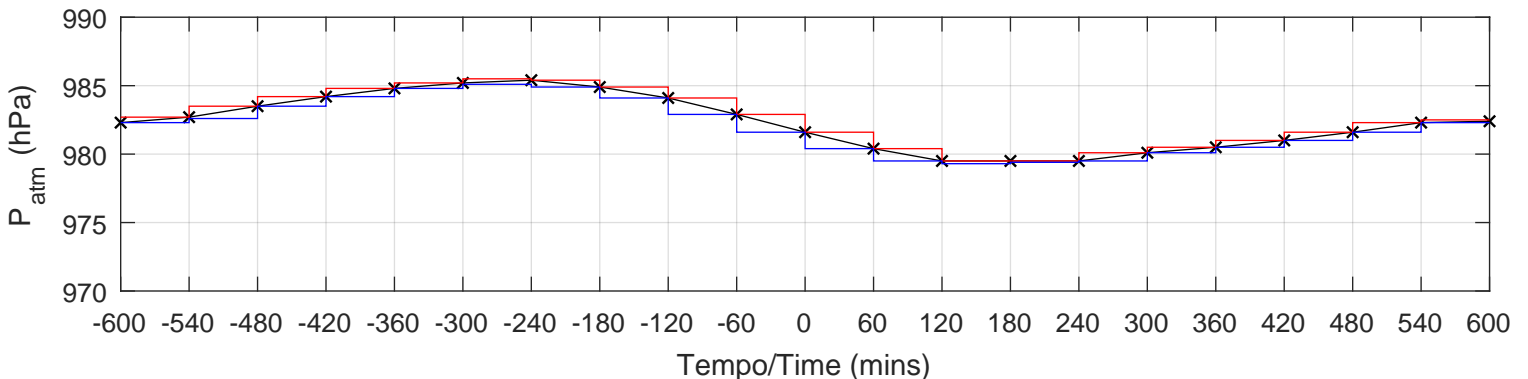
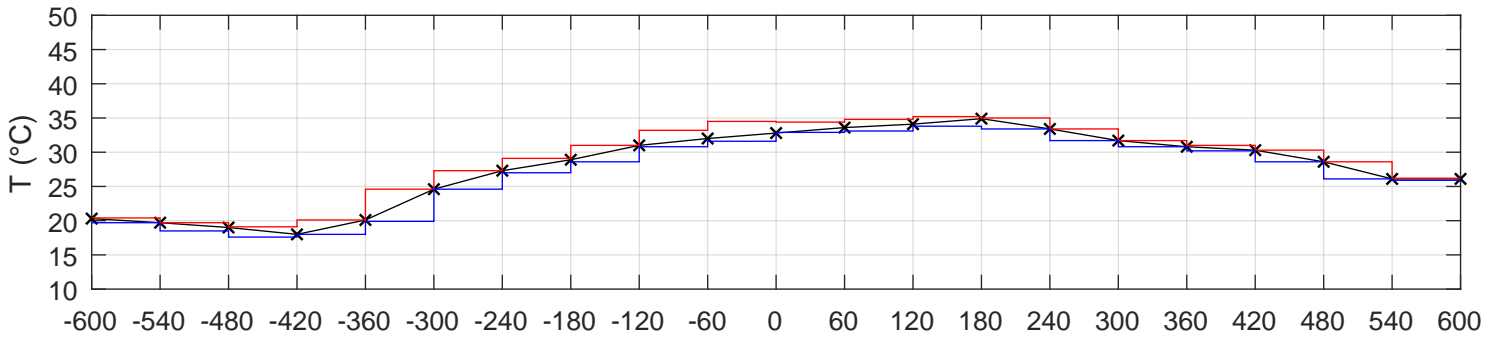
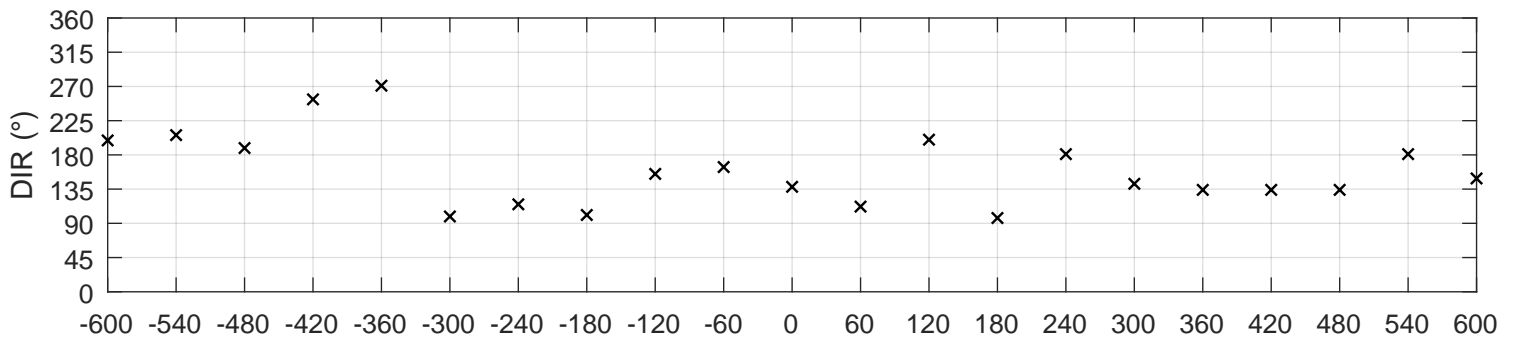
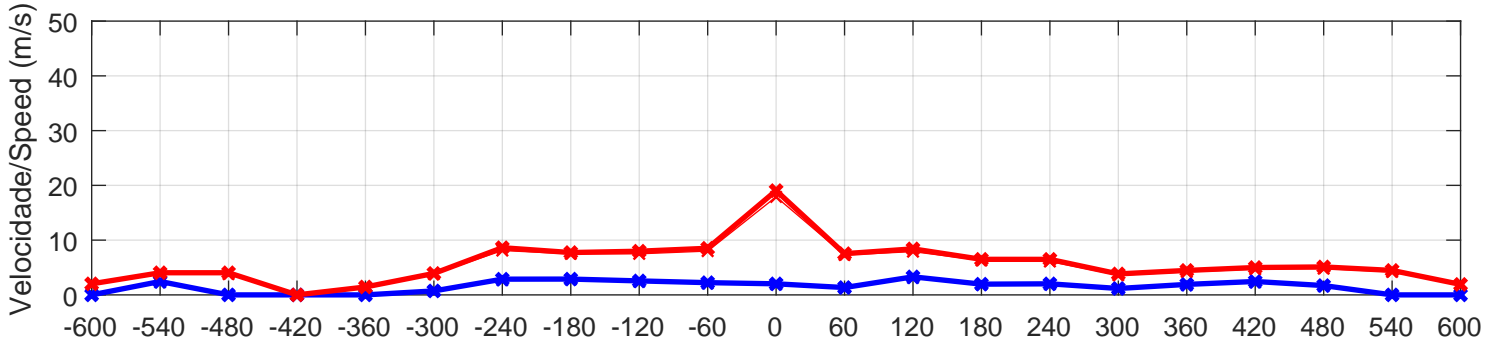
A336/81846 EVENTO/EVENT 18 - 12/12/2008, 22:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                           | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|---|--|---------------------------------|
| $G_{obs} = 19.2 \text{ m/s}$   | $R_{G,-6} = 1.7$ $R_{V,-6} = 1.9$ | $T_{med,3} = 28.9 \text{ }^\circ\text{C}$         | $DIR = 354^\circ$                      | NÃO-SINÓTICO                    |
| $V_{obs} = 9.5 \text{ m/s}$    | $R_{G,-3} = 1.5$ $R_{V,-3} = 1.9$ | $\Delta T_{min,3} = -10.7 \text{ }^\circ\text{C}$ | $\Delta DIR_{max,-3} = 131^\circ$      | NON-SYNOPTIC                    |
| $G_V = 2.0$                    | $R_{G,+3} = 3.2$ $R_{V,+3} = 5.9$ | $\Delta P_{max,3} = 2.4 \text{ hPa}$              | $\Delta DIR_{max,+3} = 167^\circ$      | (10)                            |
| $G_{cor} = 19.2 \text{ m/s}$   | $R_{G,+6} = 4.1$ $R_{V,+6} = 7.0$ | $\Delta$ Grupo/Group = 1                          |  |                                 |
| $V_{cor} = 10.1 \text{ m/s}$   |                                   |   |  |                                 |



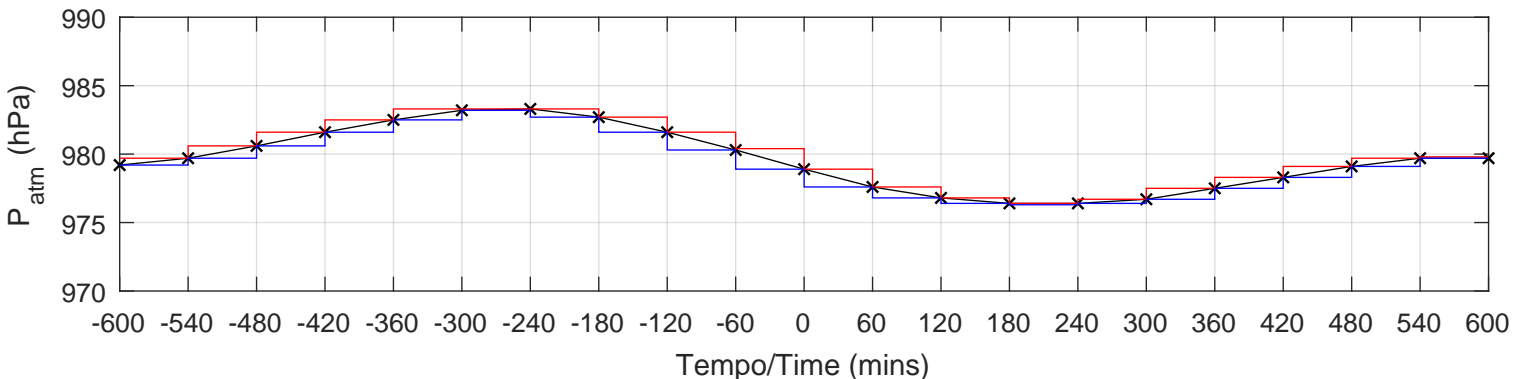
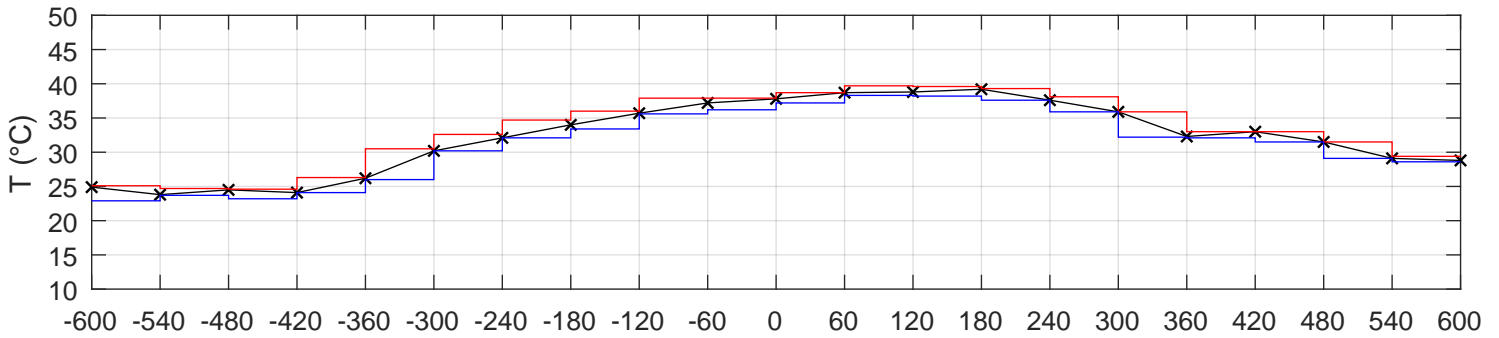
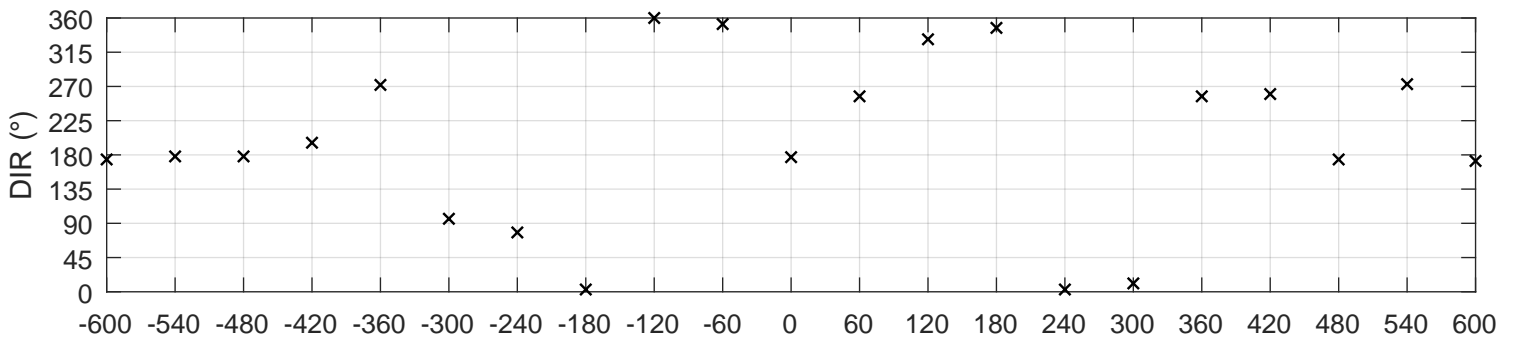
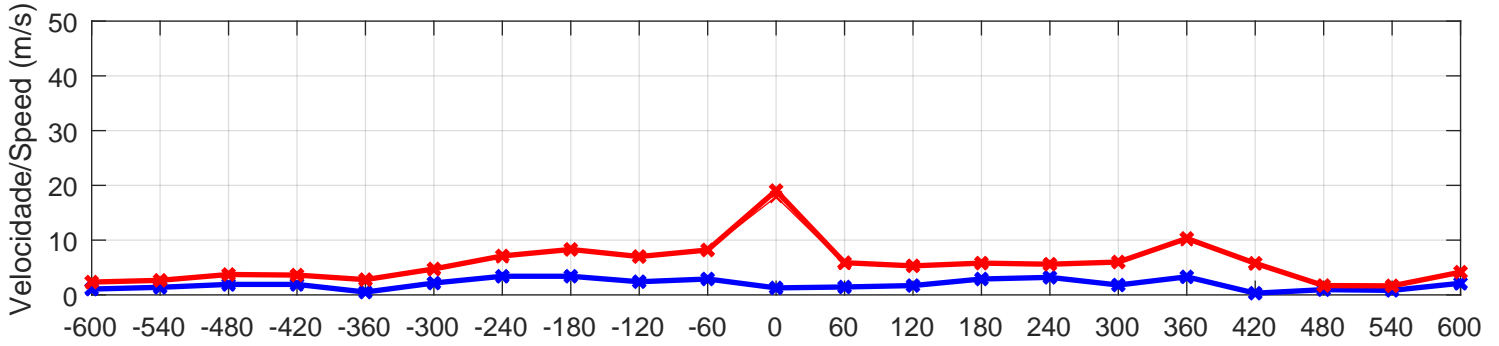
A336/81846 EVENTO/EVENT 19 - 26/08/2008, 16:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                          | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|--|--|---------------------------------|
| $G_{obs} = 17.9 \text{ m/s}$   | $R_{G,-6} = 3.0$ $R_{V,-6} = 1.5$ | $T_{med,3} = 30.6 \text{ }^\circ\text{C}$        | $DIR = 138^\circ$                      | NÃO-SINÓTICO                    |
| $V_{obs} = 2.1 \text{ m/s}$    | $R_{G,-3} = 2.3$ $R_{V,-3} = 0.8$ | $\Delta T_{min,3} = -1.6 \text{ }^\circ\text{C}$ | $\Delta DIR_{max,-3} = 37^\circ$       | NON-SYNOPTIC                    |
| $G_V = 8.5$                    | $R_{G,+3} = 2.5$ $R_{V,+3} = 1.0$ | $\Delta P_{max,3} = 0.0 \text{ hPa}$             | $\Delta DIR_{max,+3} = 62^\circ$       | (12)                            |
| $G_{cor} = 19.0 \text{ m/s}$   | $R_{G,+6} = 3.0$ $R_{V,+6} = 1.1$ | $\Delta$ Grupo/Group = 3                         |  |                                 |
| $V_{cor} = 2.2 \text{ m/s}$    |                                   |  |  |                                 |



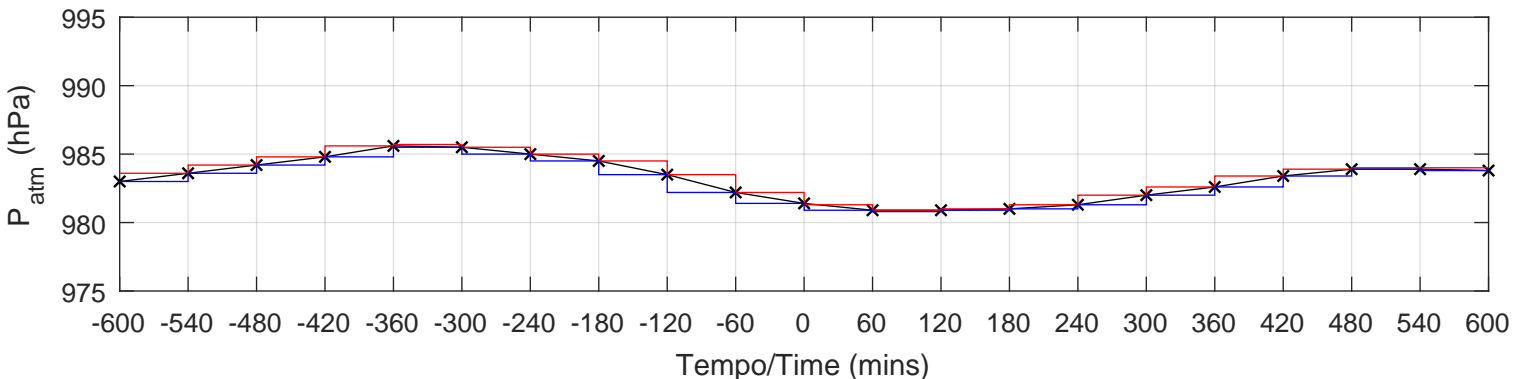
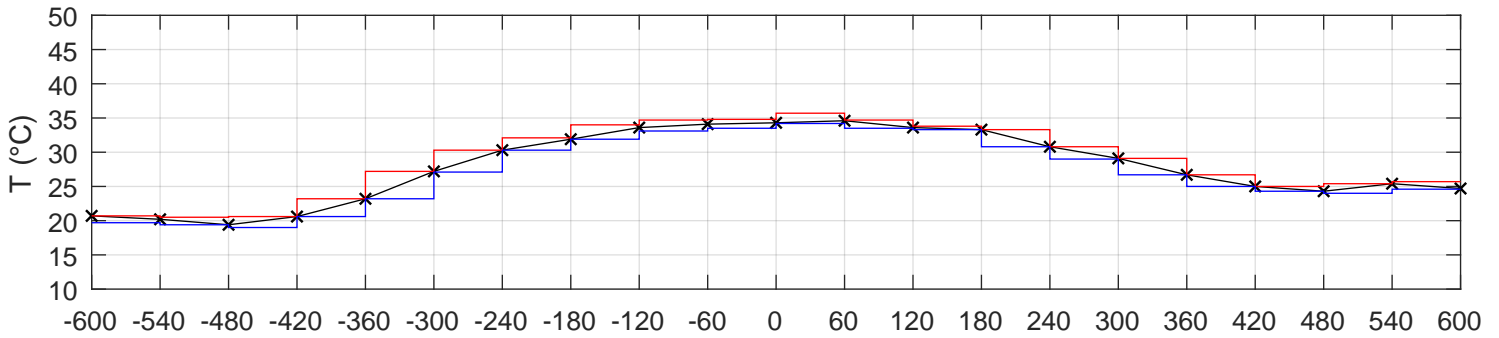
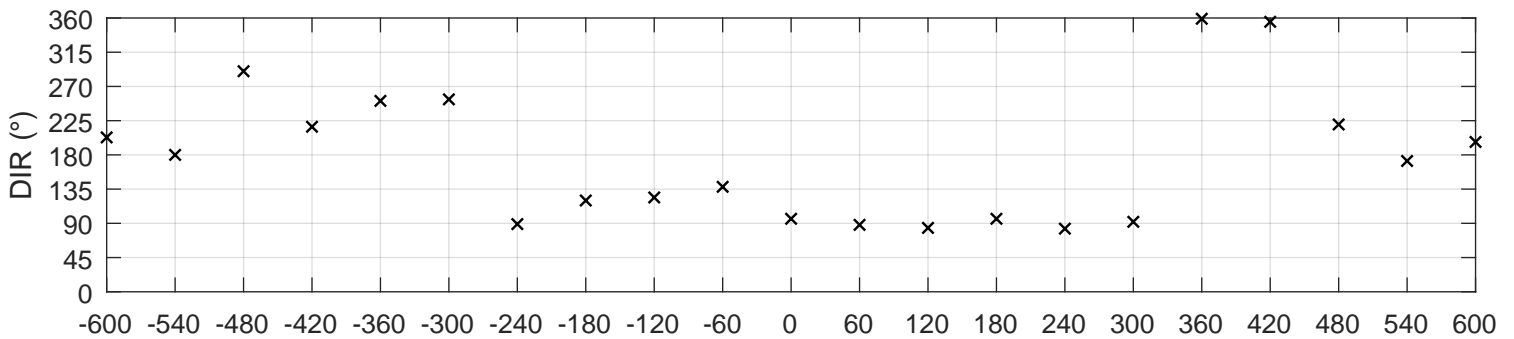
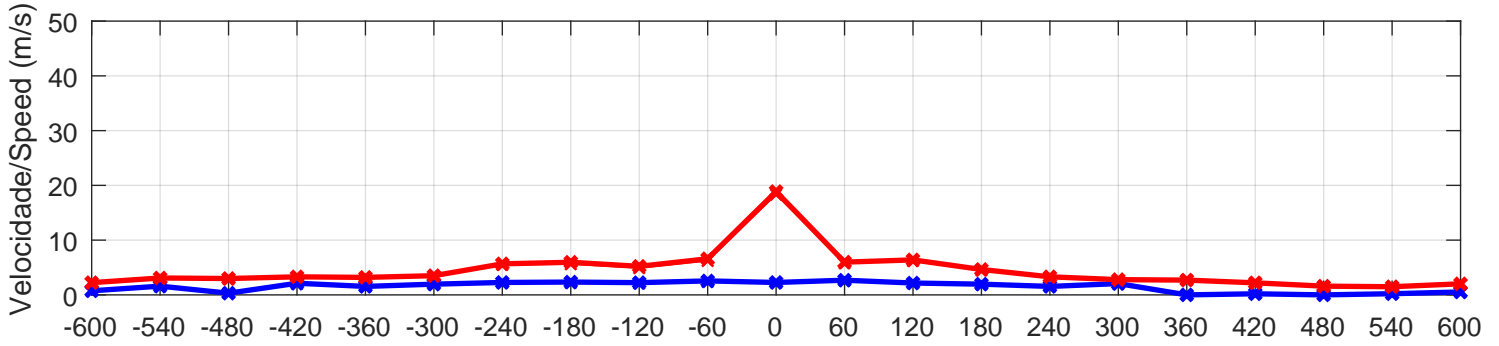
A336/81846 EVENTO/EVENT 20 - 27/10/2008, 16:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                          | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|--|--|---------------------------------|
| $G_{obs} = 17.9 \text{ m/s}$   | $R_{G,-6} = 2.8$ $R_{V,-6} = 1.3$ | $T_{med,3} = 35.6 \text{ }^\circ\text{C}$        | $DIR = 177^\circ$                      | SINÓTICO                        |
| $V_{obs} = 2.9 \text{ m/s}$    | $R_{G,-3} = 2.3$ $R_{V,-3} = 1.0$ | $\Delta T_{min,3} = -1.7 \text{ }^\circ\text{C}$ | $\Delta DIR_{max,-3} = 177^\circ$      | SYNOPTIC                        |
| $G_V = 6.2$                    | $R_{G,+3} = 3.2$ $R_{V,+3} = 2.0$ | $\Delta P_{max,3} = 0.1 \text{ hPa}$             | $\Delta DIR_{max,+3} = 170^\circ$      | (22)                            |
| $G_{cor} = 19.0 \text{ m/s}$   | $R_{G,+6} = 2.8$ $R_{V,+6} = 1.4$ | $\Delta$ Grupo/Group = 3                         |  |                                 |
| $V_{cor} = 2.9 \text{ m/s}$    |                                   |  |  |                                 |



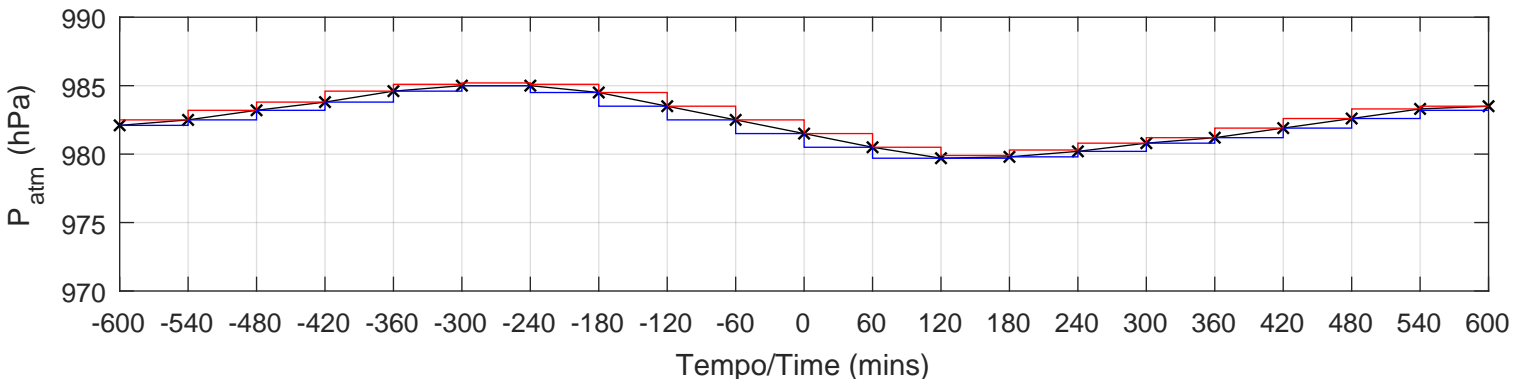
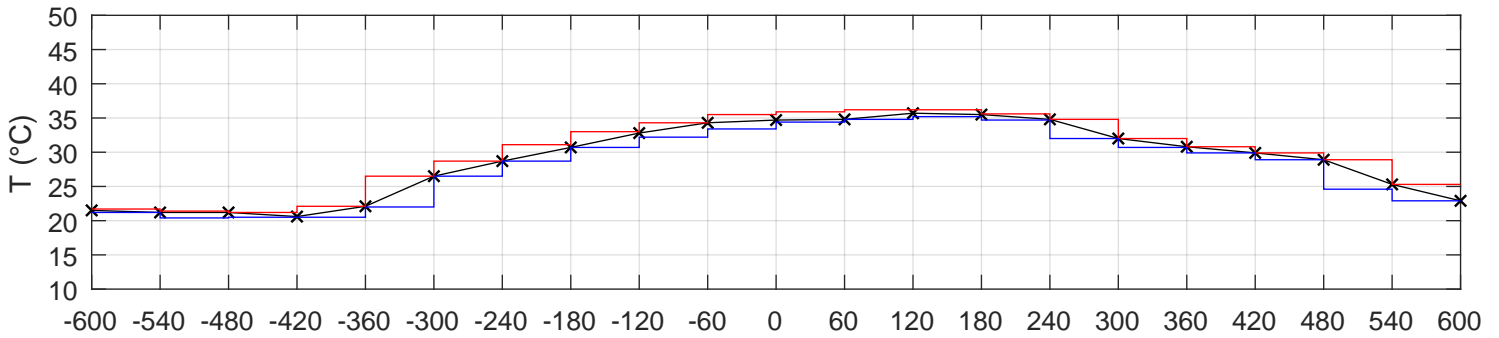
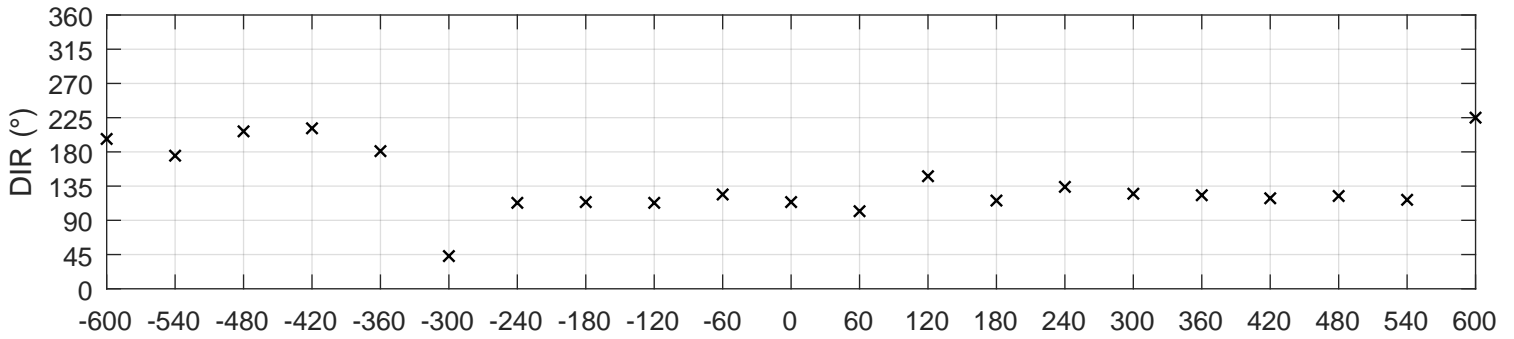
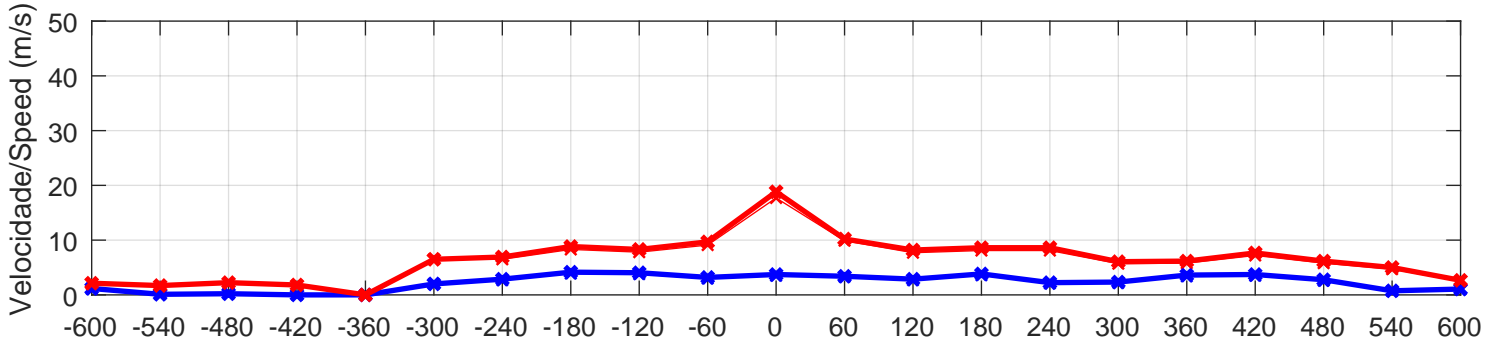
A336/81846 EVENTO/EVENT 21 - 31/05/2017, 17:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                          | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|--|--|---------------------------------|
| $G_{obs} = 18.3 \text{ m/s}$   | $R_{G,-6} = 3.8$ $R_{V,-6} = 1.2$ | $T_{med,3} = 33.2 \text{ }^\circ\text{C}$        | $DIR = 96^\circ$                       | NÃO-SINÓTICO                    |
| $V_{obs} = 2.4 \text{ m/s}$    | $R_{G,-3} = 3.3$ $R_{V,-3} = 1.1$ | $\Delta T_{min,3} = -1.2 \text{ }^\circ\text{C}$ | $\Delta DIR_{max,-3} = 42^\circ$       | NON-SYNOPTIC                    |
| $G_V = 7.6$                    | $R_{G,+3} = 3.3$ $R_{V,+3} = 1.0$ | $\Delta P_{max,3} = 0.0 \text{ hPa}$             | $\Delta DIR_{max,+3} = 12^\circ$       | (12)                            |
| $G_{cor} = 18.9 \text{ m/s}$   | $R_{G,+6} = 4.4$ $R_{V,+6} = 1.2$ | $\Delta$ Grupo/Group = 3                         |  |                                 |
| $V_{cor} = 2.6 \text{ m/s}$    |                                   |  |  |                                 |



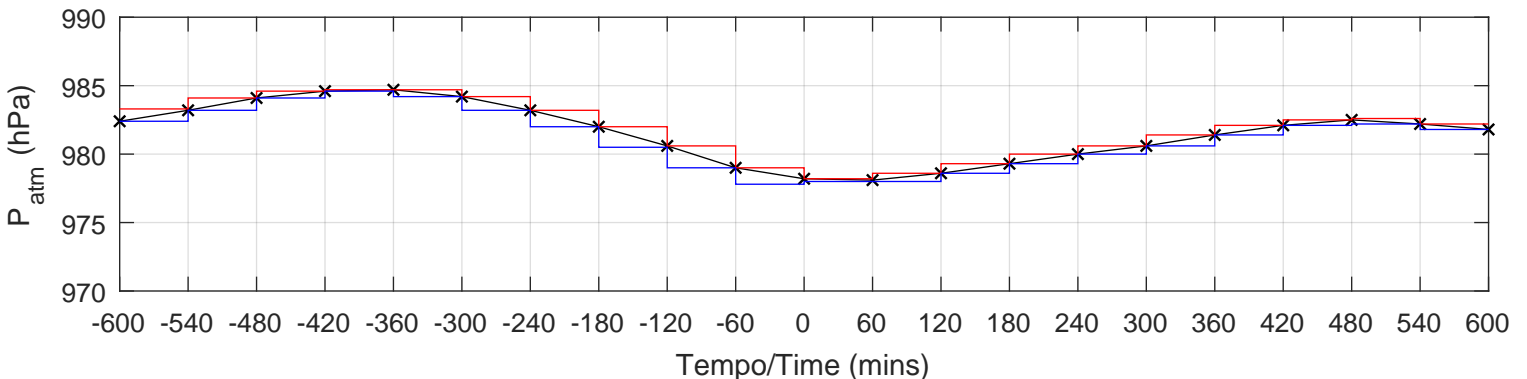
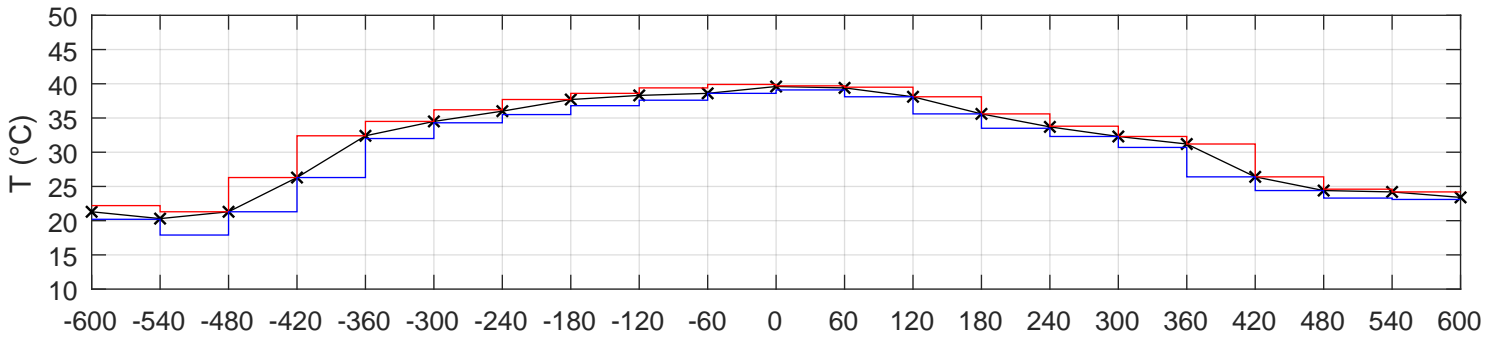
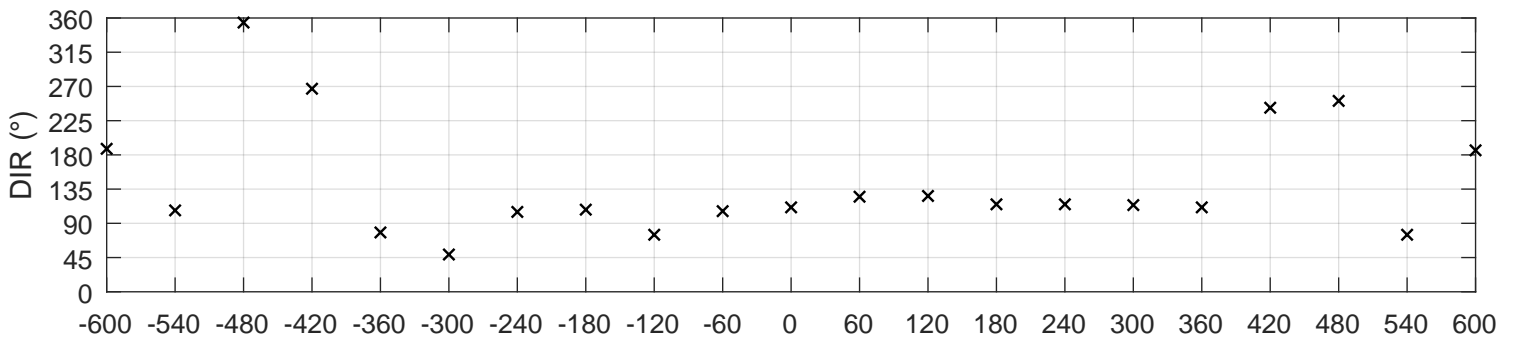
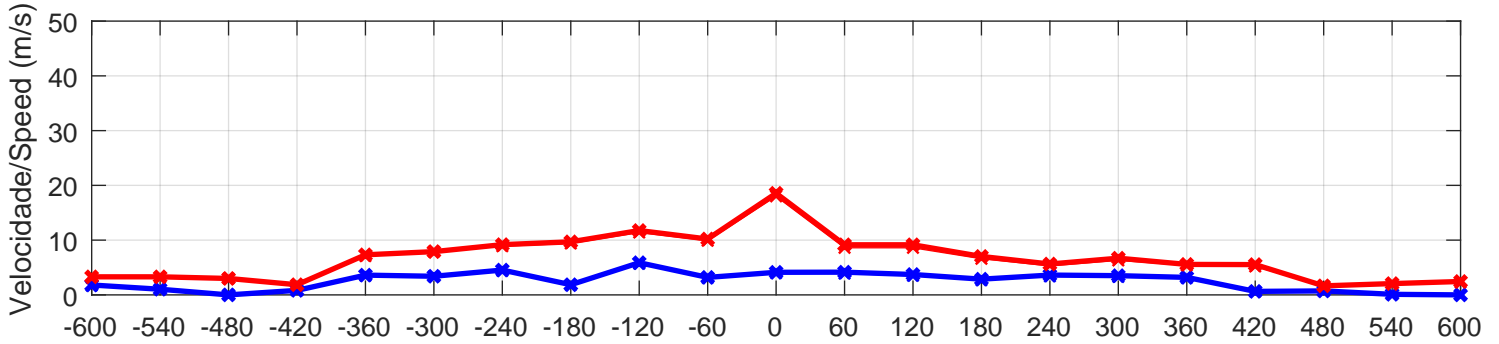
A336/81846 EVENTO/EVENT 22 - 10/06/2012, 16:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                          | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|--|--|---------------------------------|
| $G_{obs} = 17.7 \text{ m/s}$   | $R_{G,-6} = 2.8$ $R_{V,-6} = 1.4$ | $T_{med,3} = 32.6 \text{ }^\circ\text{C}$        | $DIR = 114^\circ$                      | SINÓTICO                        |
| $V_{obs} = 3.5 \text{ m/s}$    | $R_{G,-3} = 2.1$ $R_{V,-3} = 1.0$ | $\Delta T_{min,3} = -1.1 \text{ }^\circ\text{C}$ | $\Delta DIR_{max,-3} = 10^\circ$       | SYNOPTIC                        |
| $G_V = 5.1$                    | $R_{G,+3} = 2.1$ $R_{V,+3} = 1.1$ | $\Delta P_{max,3} = 0.0 \text{ hPa}$             | $\Delta DIR_{max,+3} = 34^\circ$       | (22)                            |
| $G_{cor} = 18.8 \text{ m/s}$   | $R_{G,+6} = 2.3$ $R_{V,+6} = 1.2$ | $\Delta$ Grupo/Group = 3                         |  |                                 |
| $V_{cor} = 3.7 \text{ m/s}$    |                                   |  |  |                                 |



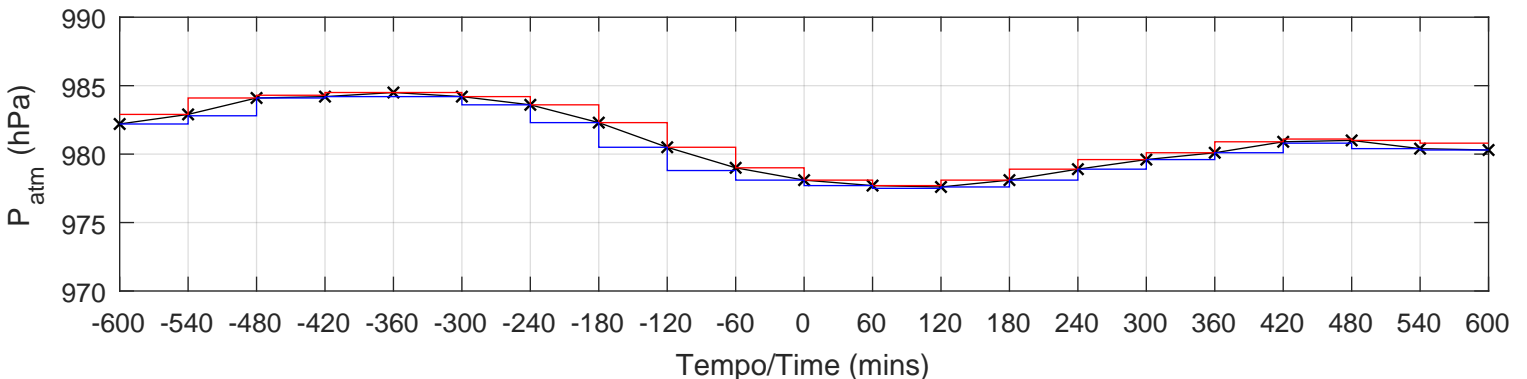
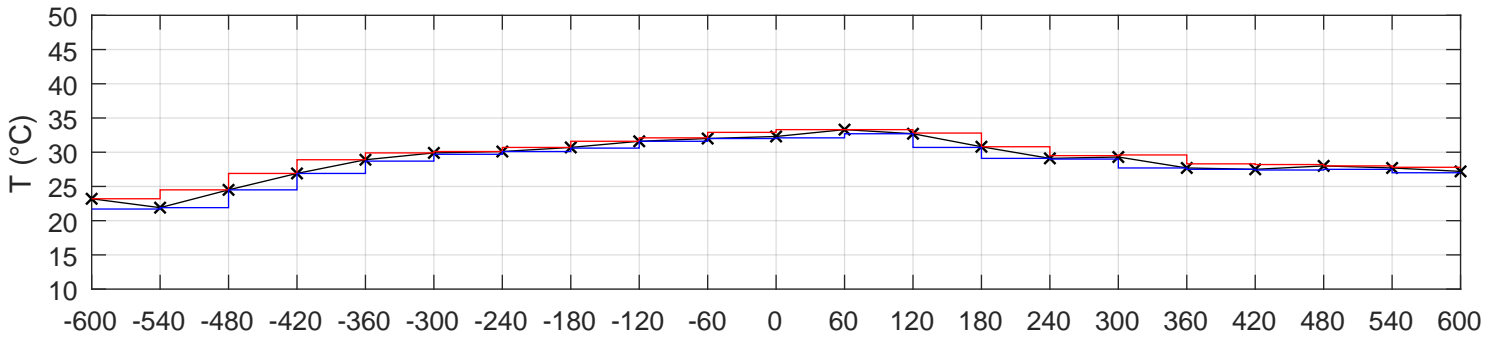
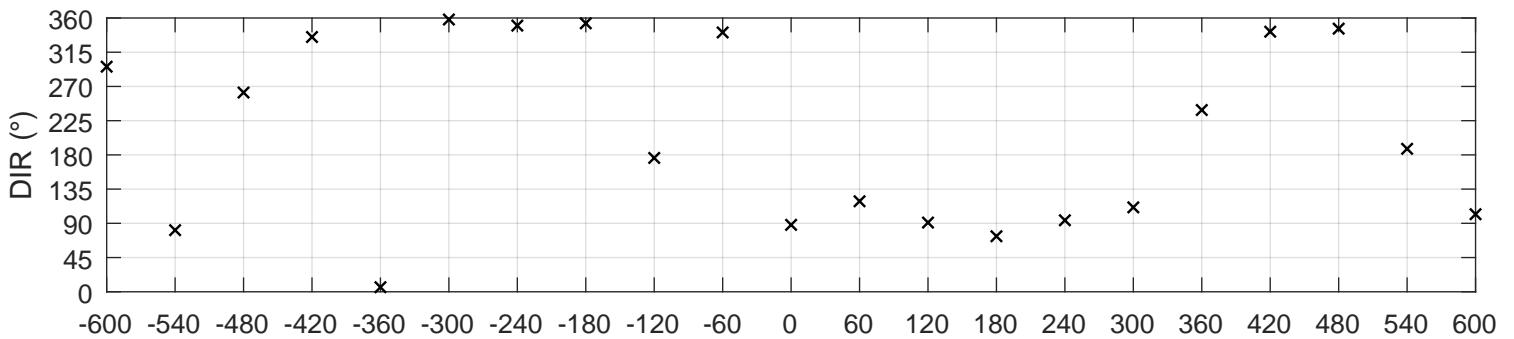
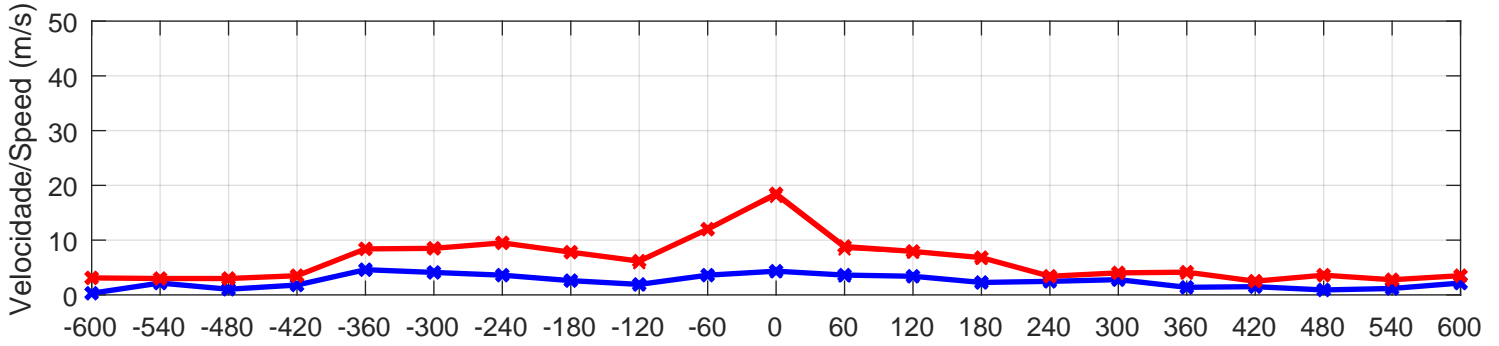
A336/81846 EVENTO/EVENT 23 - 13/09/2012, 18:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                          | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|--|--|---------------------------------|
| $G_{obs} = 18.0 \text{ m/s}$   | $R_{G,-6} = 2.0$ $R_{V,-6} = 1.1$ | $T_{med,3} = 38.2 \text{ }^\circ\text{C}$        | $DIR = 111^\circ$                      | SINÓTICO                        |
| $V_{obs} = 4.0 \text{ m/s}$    | $R_{G,-3} = 1.8$ $R_{V,-3} = 1.1$ | $\Delta T_{min,3} = -1.0 \text{ }^\circ\text{C}$ | $\Delta DIR_{max,-3} = 36^\circ$       | SYNOPTIC                        |
| $G_V = 4.5$                    | $R_{G,+3} = 2.3$ $R_{V,+3} = 1.2$ | $\Delta P_{max,3} = 0.4 \text{ hPa}$             | $\Delta DIR_{max,+3} = 15^\circ$       | (22)                            |
| $G_{cor} = 18.6 \text{ m/s}$   | $R_{G,+6} = 2.6$ $R_{V,+6} = 1.2$ | $\Delta$ Grupo/Group = 3                         |  |                                 |
| $V_{cor} = 4.1 \text{ m/s}$    |                                   |  |  |                                 |



A336/81846 EVENTO/EVENT 24 - 20/09/2009, 18:00 UTC (WRDS - WEB)

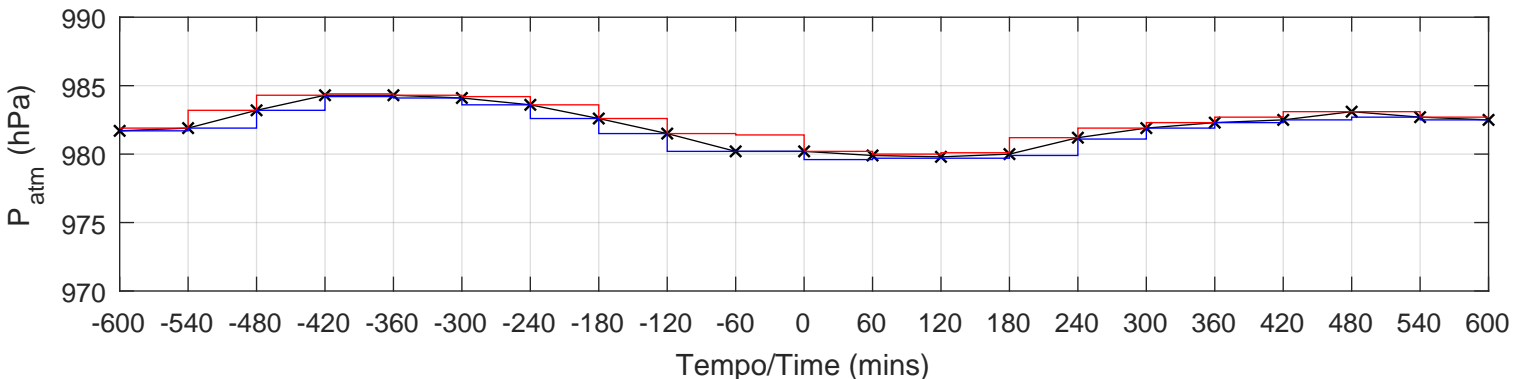
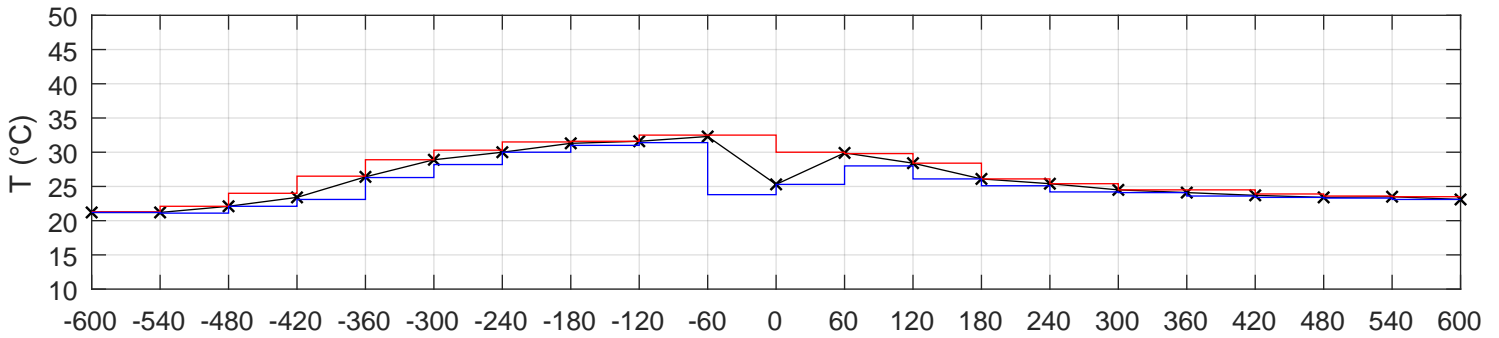
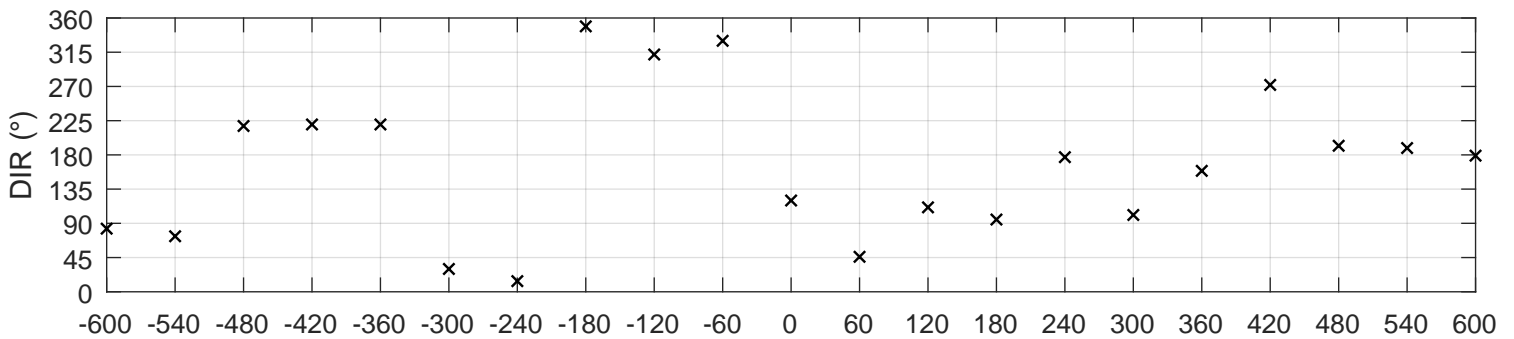
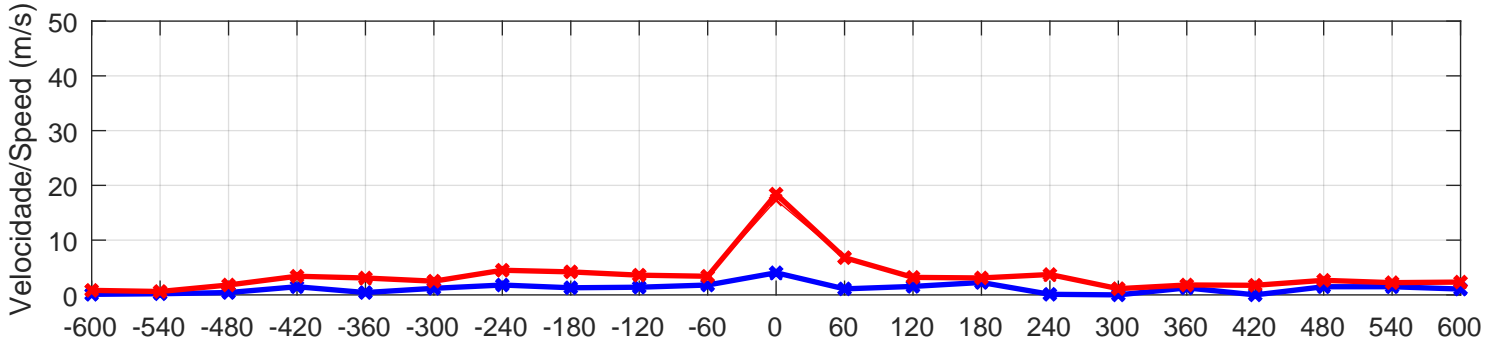
| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                          | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|--|--|---------------------------------|
| $G_{obs} = 17.9 \text{ m/s}$   | $R_{G,-6} = 2.1$ $R_{V,-6} = 1.2$ | $T_{med,3} = 31.4 \text{ }^\circ\text{C}$        | $DIR = 88^\circ$                       | SINÓTICO                        |
| $V_{obs} = 4.2 \text{ m/s}$    | $R_{G,-3} = 2.1$ $R_{V,-3} = 1.6$ | $\Delta T_{min,3} = -0.8 \text{ }^\circ\text{C}$ | $\Delta DIR_{max,-3} = 107^\circ$      | SYNOPTIC                        |
| $G_V = 4.3$                    | $R_{G,+3} = 2.4$ $R_{V,+3} = 1.4$ | $\Delta P_{max,3} = 0.2 \text{ hPa}$             | $\Delta DIR_{max,+3} = 31^\circ$       | (22)                            |
| $G_{cor} = 18.5 \text{ m/s}$   | $R_{G,+6} = 3.2$ $R_{V,+6} = 1.6$ | $\Delta$ Grupo/Group = 3                         |  |                                 |
| $V_{cor} = 4.3 \text{ m/s}$    |                                   |  |  |                                 |





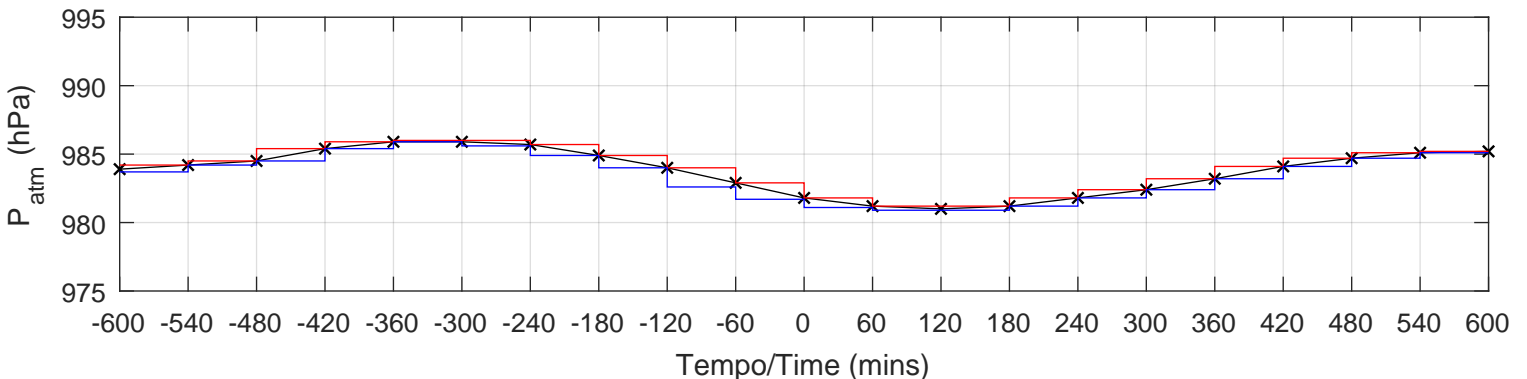
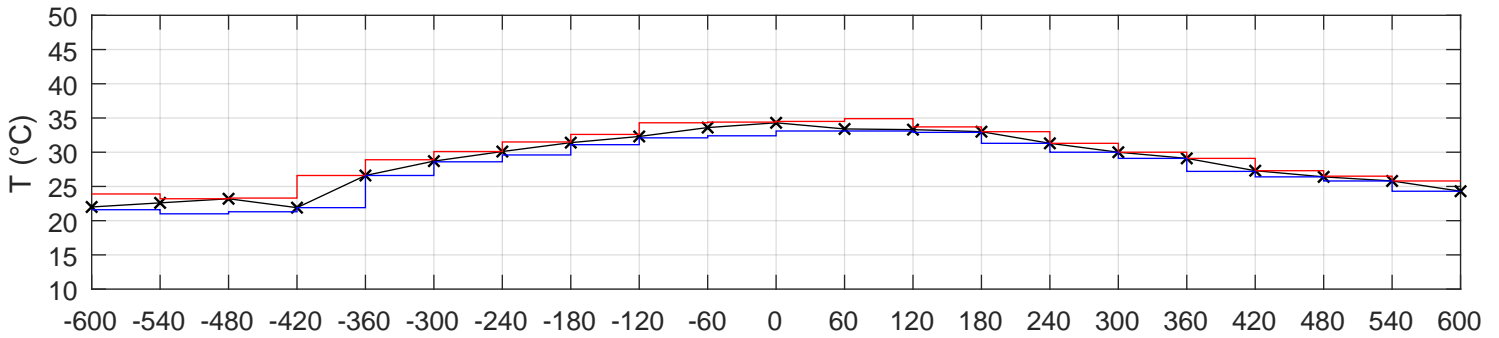
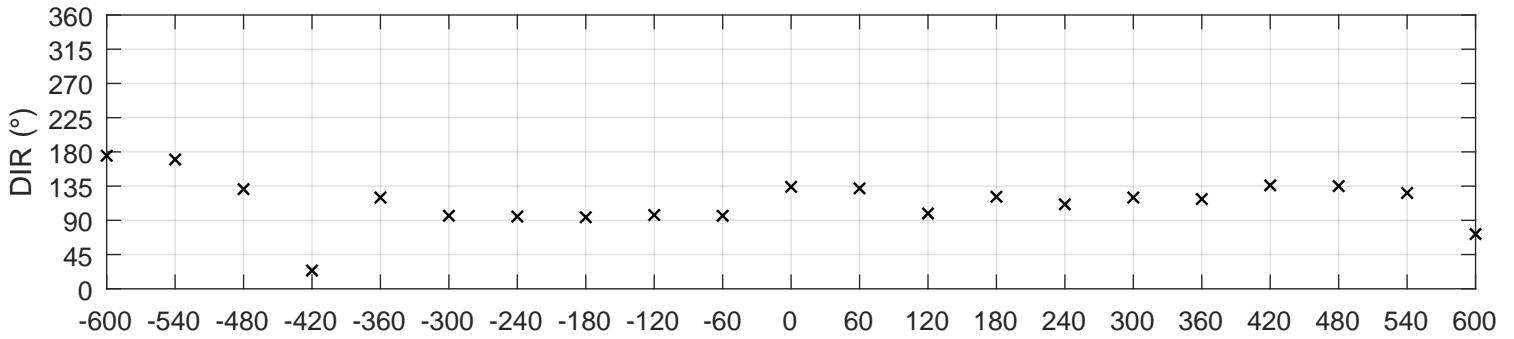
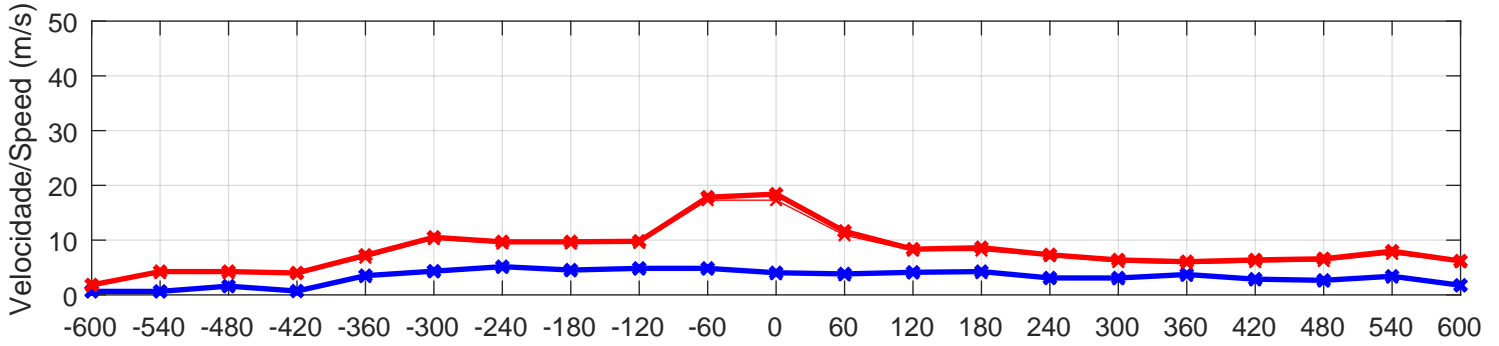
A336/81846 EVENTO/EVENT 25 - 26/04/2015, 18:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                          | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|--|--|---------------------------------|
| $G_{obs} = 17.3 \text{ m/s}$   | $R_{G,-6} = 4.9$ $R_{V,-6} = 2.9$ | $T_{med,3} = 31.7 \text{ }^\circ\text{C}$        | $DIR = 120^\circ$                      | NÃO-SINÓTICO                    |
| $V_{obs} = 3.8 \text{ m/s}$    | $R_{G,-3} = 4.6$ $R_{V,-3} = 2.5$ | $\Delta T_{min,3} = -8.7 \text{ }^\circ\text{C}$ | $\Delta DIR_{max,-3} = 168^\circ$      | NON-SYNOPTIC                    |
| $G_V = 4.6$                    | $R_{G,+3} = 4.0$ $R_{V,+3} = 2.4$ | $\Delta P_{max,3} = 1.2 \text{ hPa}$             | $\Delta DIR_{max,+3} = 74^\circ$       | (11)                            |
| $G_{cor} = 18.4 \text{ m/s}$   | $R_{G,+6} = 5.4$ $R_{V,+6} = 3.7$ | $\Delta$ Grupo/Group = 2                         |  |                                 |
| $V_{cor} = 4.0 \text{ m/s}$    |                                   |  |  |                                 |



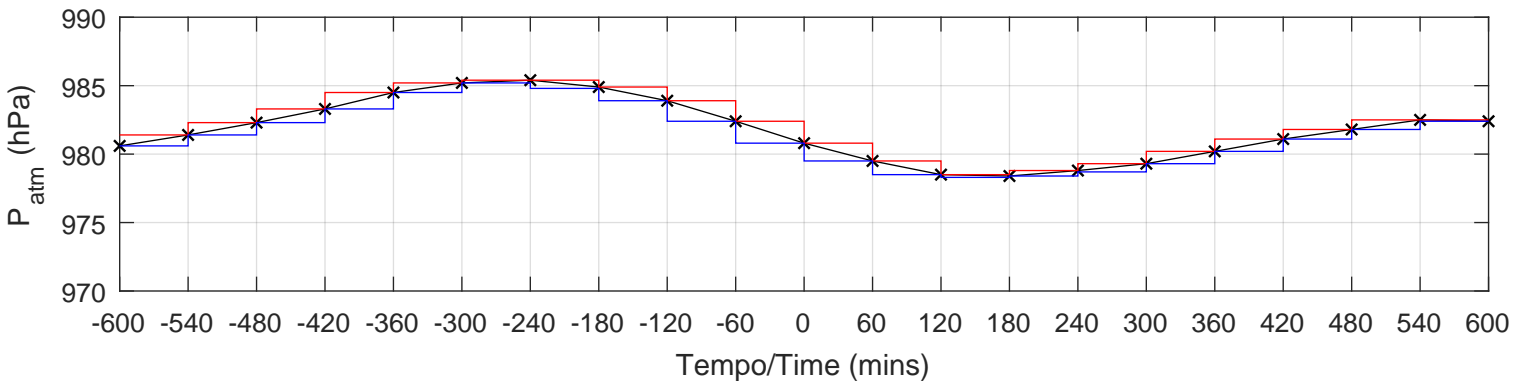
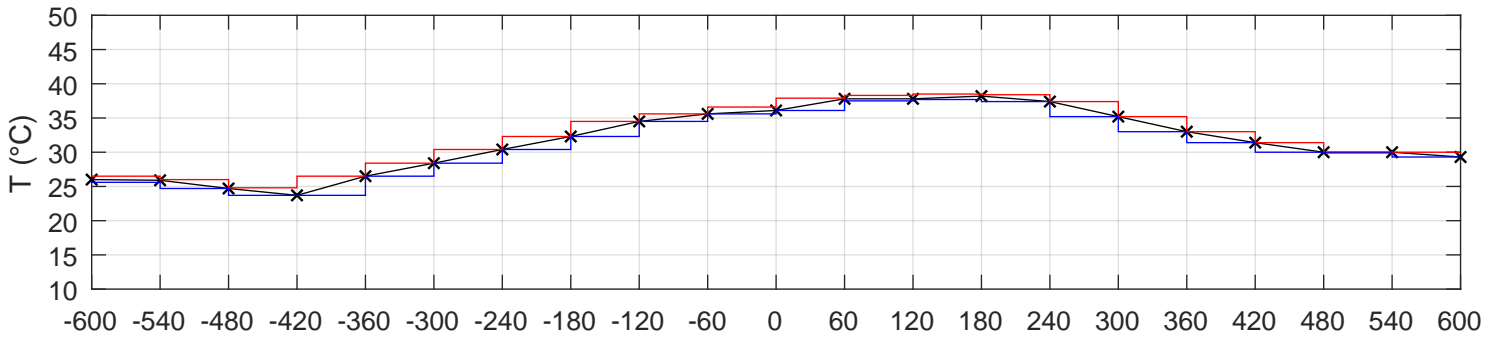
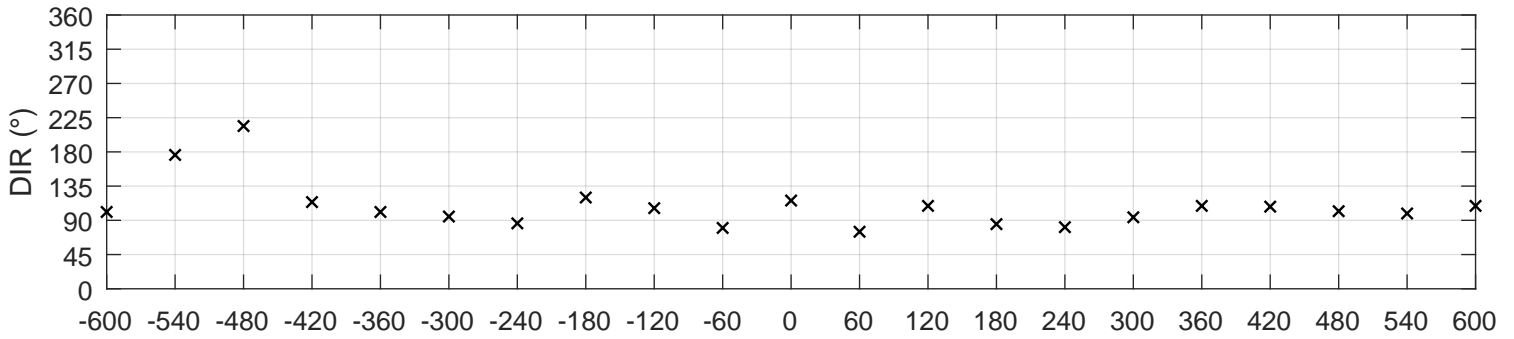
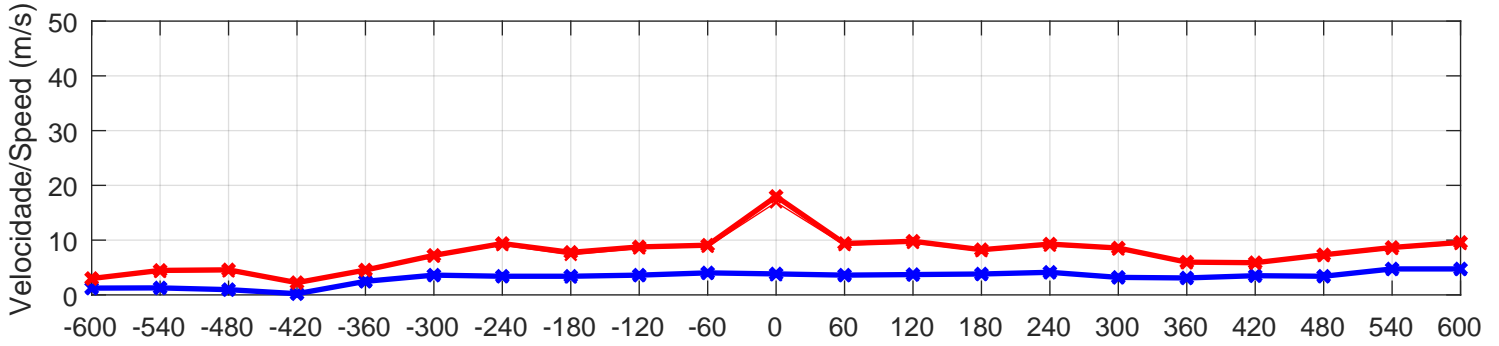
A336/81846 EVENTO/EVENT 26 - 29/07/2016, 17:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                          | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|--|--|---------------------------------|
| $G_{obs} = 17.3 \text{ m/s}$   | $R_{G,-6} = 1.7$ $R_{V,-6} = 1.3$ | $T_{med,3} = 32.4 \text{ }^\circ\text{C}$        | $DIR = 134^\circ$                      | SINÓTICO                        |
| $V_{obs} = 4.7 \text{ m/s}$    | $R_{G,-3} = 1.4$ $R_{V,-3} = 1.0$ | $\Delta T_{min,3} = -1.9 \text{ }^\circ\text{C}$ | $\Delta DIR_{max,-3} = 40^\circ$       | SYNOPTIC                        |
| $G_V = 3.7$                    | $R_{G,+3} = 1.9$ $R_{V,+3} = 1.2$ | $\Delta P_{max,3} = 0.3 \text{ hPa}$             | $\Delta DIR_{max,+3} = 35^\circ$       | (22)                            |
| $G_{cor} = 18.4 \text{ m/s}$   | $R_{G,+6} = 2.3$ $R_{V,+6} = 1.3$ | $\Delta$ Grupo/Group = 3                         |  |                                 |
| $V_{cor} = 4.8 \text{ m/s}$    |                                   |  |  |                                 |



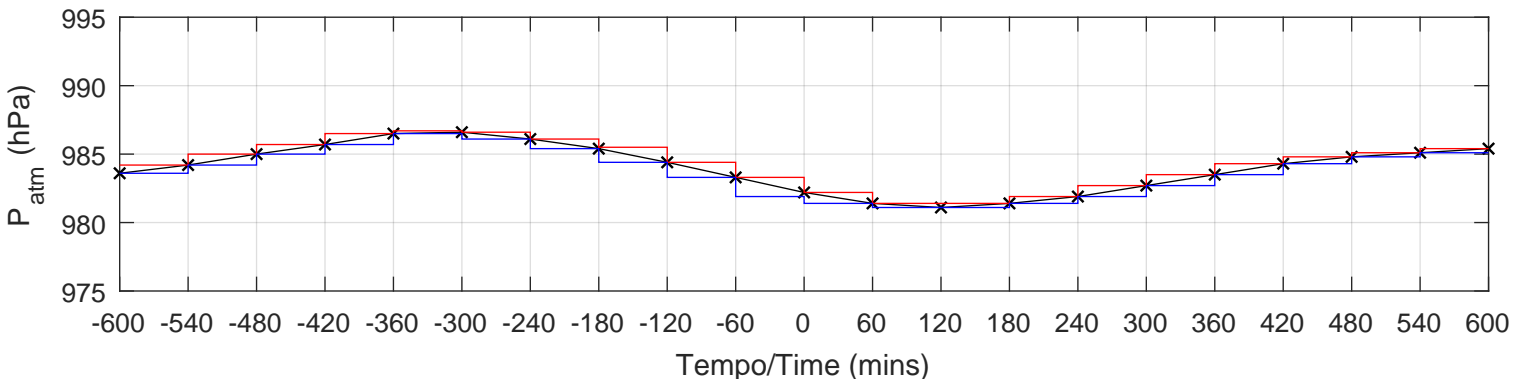
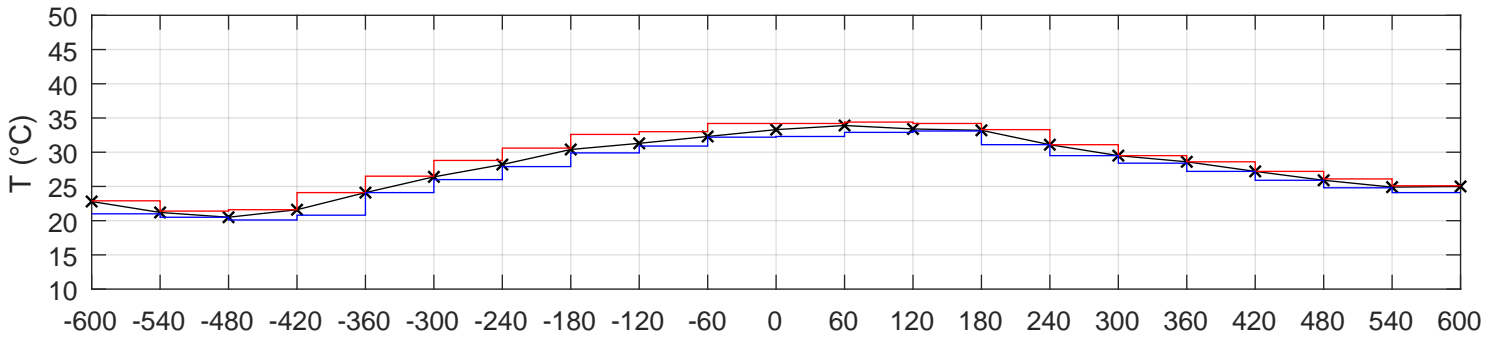
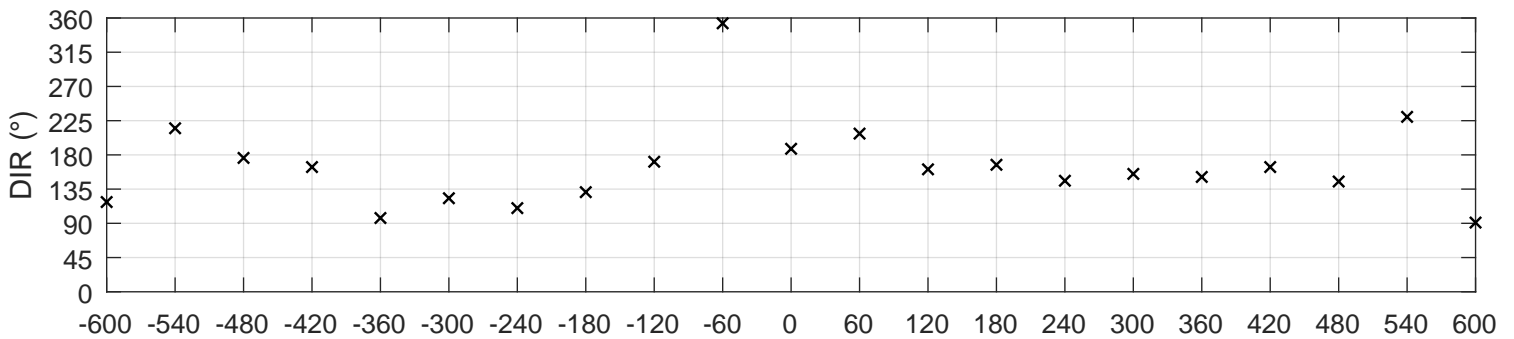
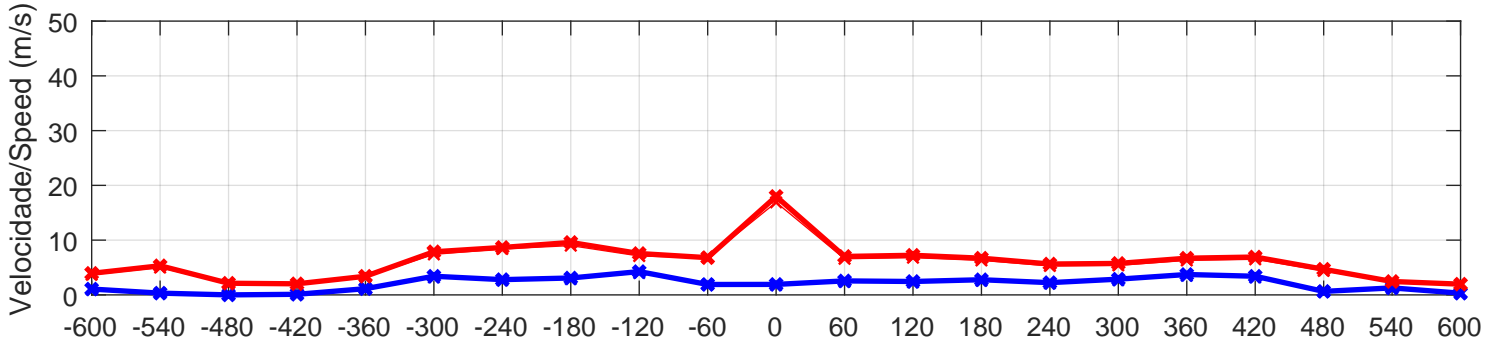
A336/81846 EVENTO/EVENT 27 - 23/09/2011, 16:00 UTC (WRDS - DISME)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                          | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|--|--|---------------------------------|
| $G_{obs} = 16.9 \text{ m/s}$   | $R_{G,-6} = 2.2$ $R_{V,-6} = 1.5$ | $T_{med,3} = 34.1 \text{ }^\circ\text{C}$        | $DIR = 116^\circ$                      | SINÓTICO                        |
| $V_{obs} = 3.9 \text{ m/s}$    | $R_{G,-3} = 2.1$ $R_{V,-3} = 1.2$ | $\Delta T_{min,3} = -0.5 \text{ }^\circ\text{C}$ | $\Delta DIR_{max,-3} = 36^\circ$       | SYNOPTIC                        |
| $G_V = 4.3$                    | $R_{G,+3} = 1.9$ $R_{V,+3} = 1.1$ | $\Delta P_{max,3} = 0.0 \text{ hPa}$             | $\Delta DIR_{max,+3} = 41^\circ$       | (22)                            |
| $G_{cor} = 18.0 \text{ m/s}$   | $R_{G,+6} = 2.0$ $R_{V,+6} = 1.1$ | $\Delta$ Grupo/Group = 3                         |  |                                 |
| $V_{cor} = 4.0 \text{ m/s}$    |                                   |  |  |                                 |



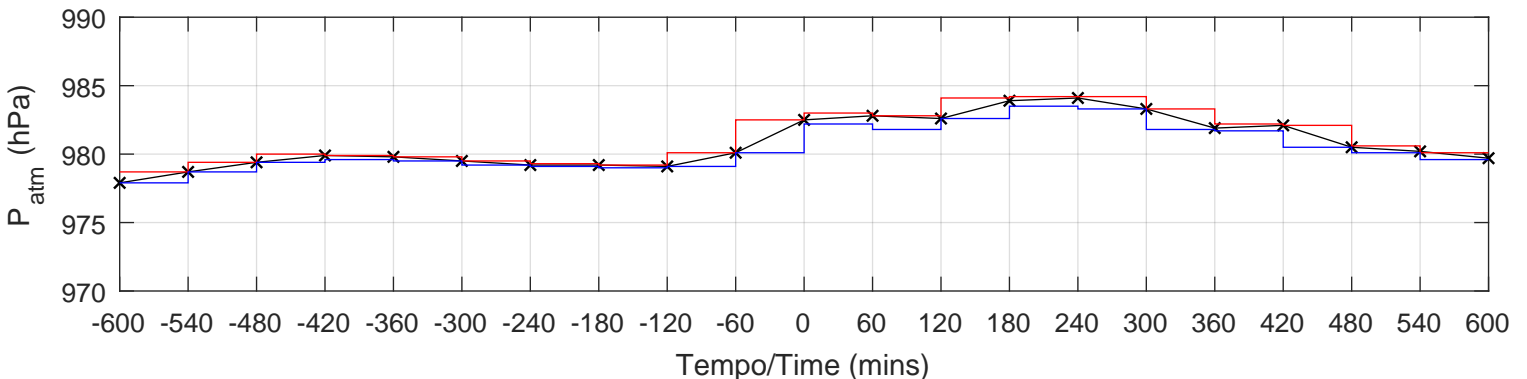
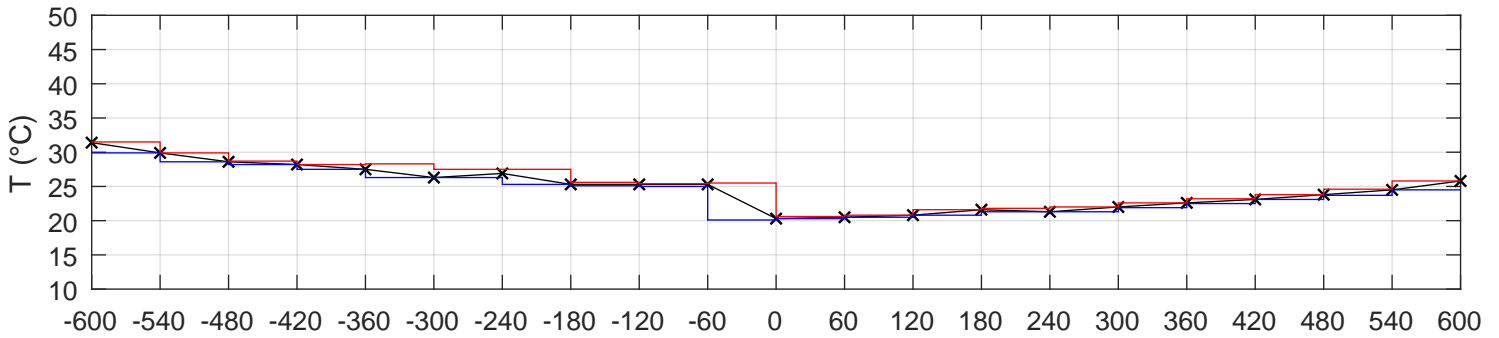
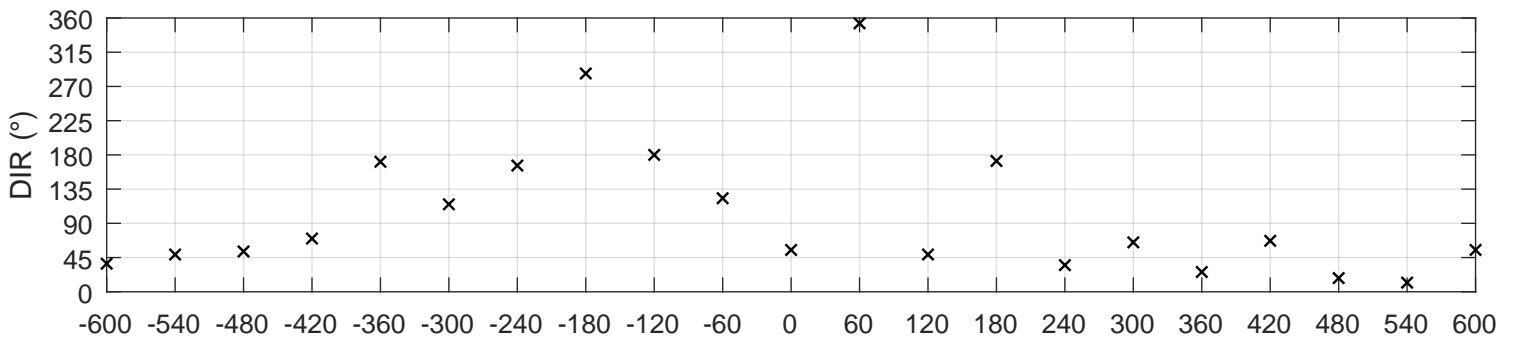
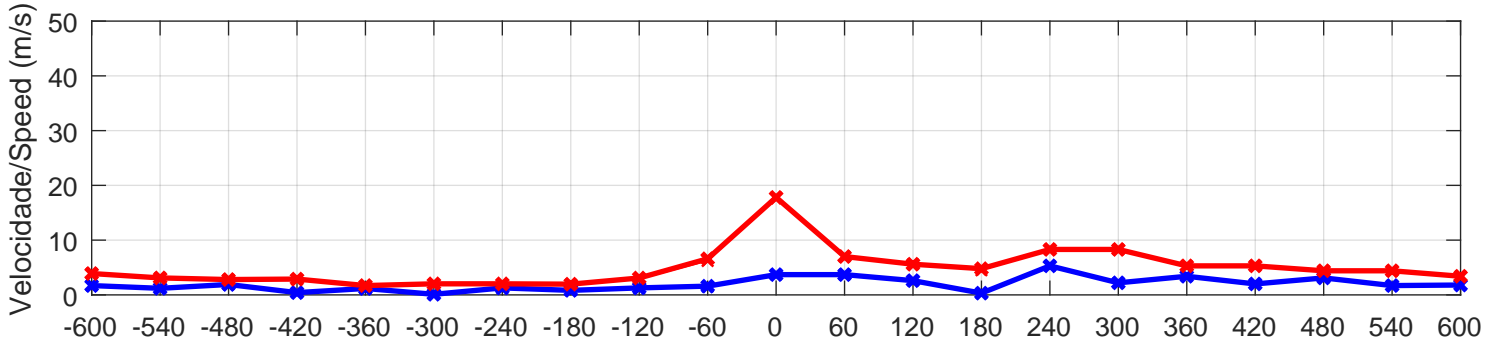
A336/81846 EVENTO/EVENT 28 - 03/08/2012, 17:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                          | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|--|--|---------------------------------|
| $G_{obs} = 16.9 \text{ m/s}$   | $R_{G,-6} = 2.4$ $R_{V,-6} = 0.8$ | $T_{med,3} = 31.3 \text{ }^\circ\text{C}$        | $DIR = 188^\circ$                      | SINÓTICO                        |
| $V_{obs} = 1.9 \text{ m/s}$    | $R_{G,-3} = 2.2$ $R_{V,-3} = 0.6$ | $\Delta T_{min,3} = -1.9 \text{ }^\circ\text{C}$ | $\Delta DIR_{max,-3} = 165^\circ$      | SYNOPTIC                        |
| $G_V = 8.9$                    | $R_{G,+3} = 2.6$ $R_{V,+3} = 0.9$ | $\Delta P_{max,3} = 0.3 \text{ hPa}$             | $\Delta DIR_{max,+3} = 27^\circ$       | (22)                            |
| $G_{cor} = 18.0 \text{ m/s}$   | $R_{G,+6} = 2.8$ $R_{V,+6} = 0.8$ | $\Delta$ Grupo/Group = 3                         |  |                                 |
| $V_{cor} = 1.9 \text{ m/s}$    |                                   |  |  |                                 |



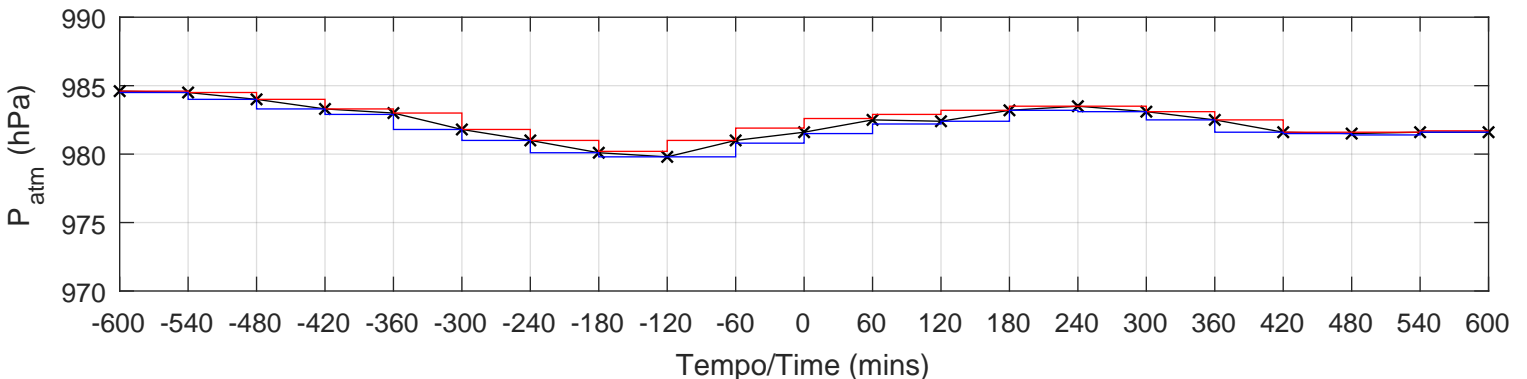
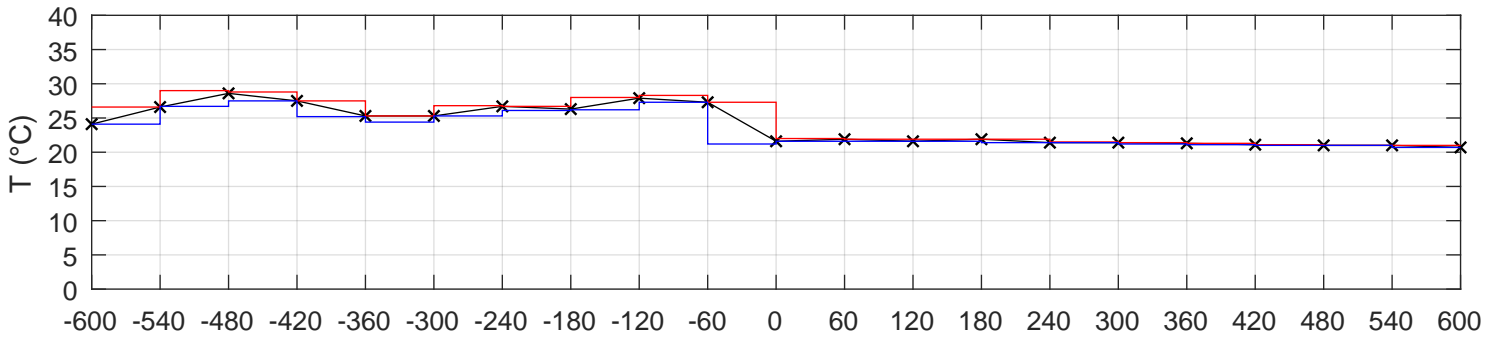
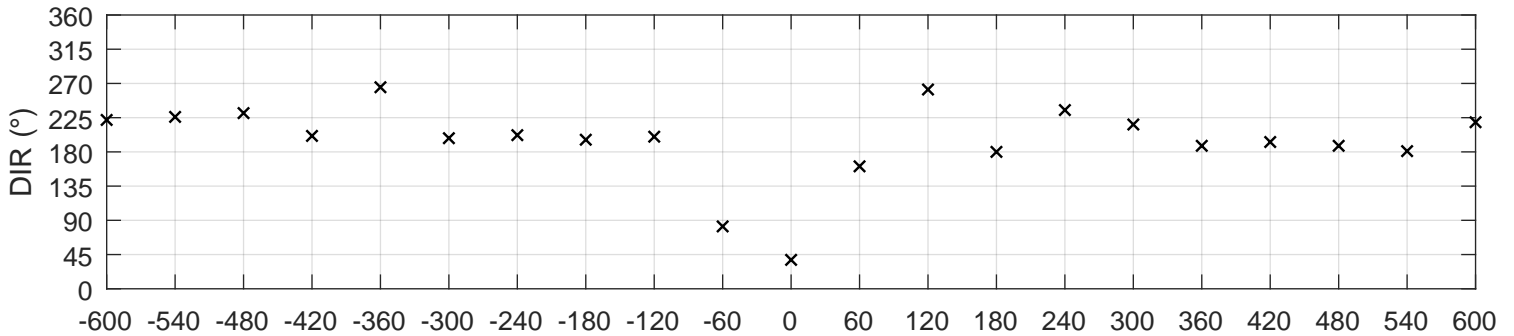
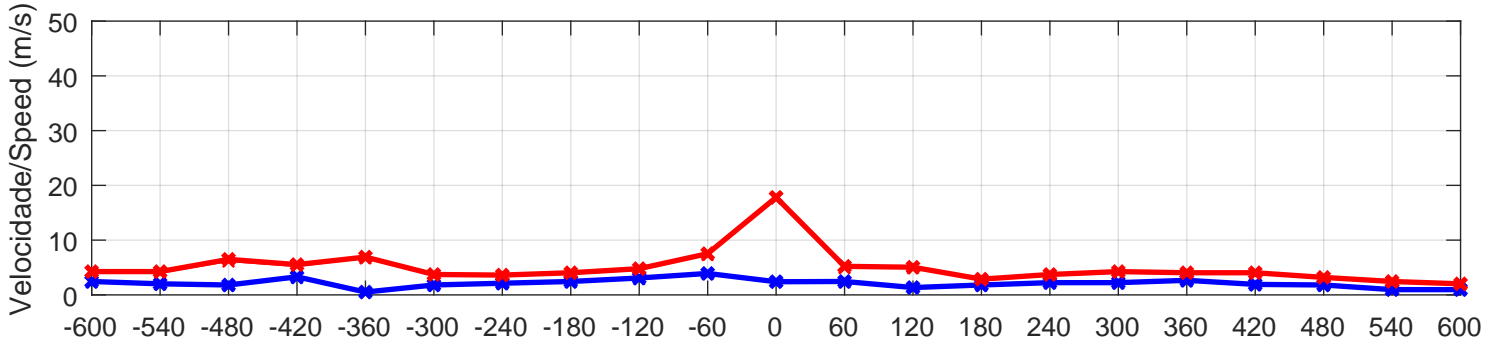
A336/81846 EVENTO/EVENT 29 - 07/01/2008, 09:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                          | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|--|--|---------------------------------|
| $G_{obs} = 17.8 \text{ m/s}$   | $R_{G,-6} = 6.5$ $R_{V,-6} = 3.8$ | $T_{med,3} = 25.3 \text{ }^\circ\text{C}$        | $DIR = 55^\circ$                       | NÃO-SINÓTICO                    |
| $V_{obs} = 3.7 \text{ m/s}$    | $R_{G,-3} = 4.9$ $R_{V,-3} = 3.2$ | $\Delta T_{min,3} = -5.3 \text{ }^\circ\text{C}$ | $\Delta DIR_{max,-3} = 128^\circ$      | NON-SYNOPTIC                    |
| $G_V = 4.8$                    | $R_{G,+3} = 3.1$ $R_{V,+3} = 1.7$ | $\Delta P_{max,3} = 3.4 \text{ hPa}$             | $\Delta DIR_{max,+3} = 117^\circ$      | (10)                            |
| $G_{cor} = 17.8 \text{ m/s}$   | $R_{G,+6} = 2.7$ $R_{V,+6} = 1.3$ | $\Delta$ Grupo/Group = 1                         |  |                                 |
| $V_{cor} = 3.7 \text{ m/s}$    |                                   |  |  |                                 |



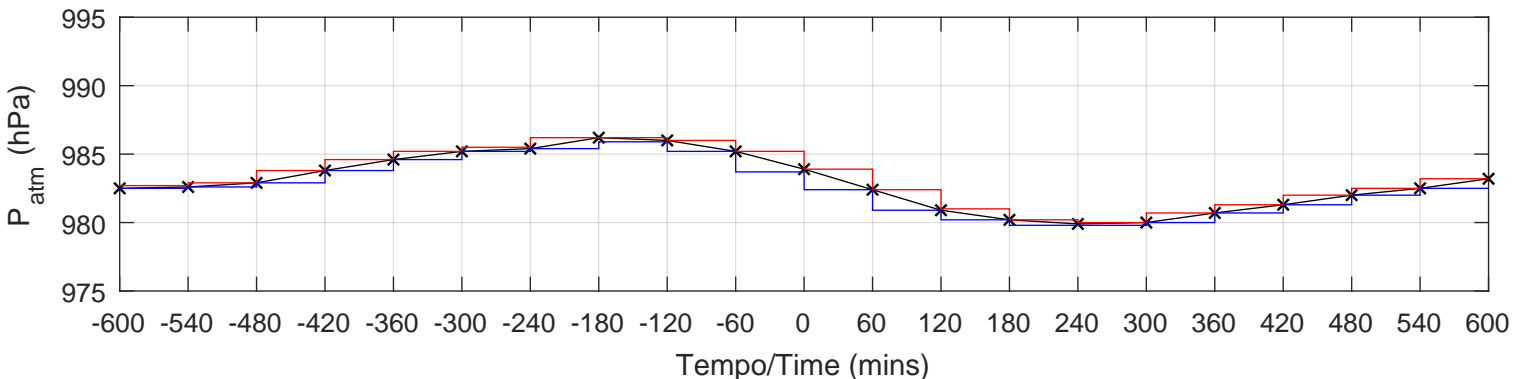
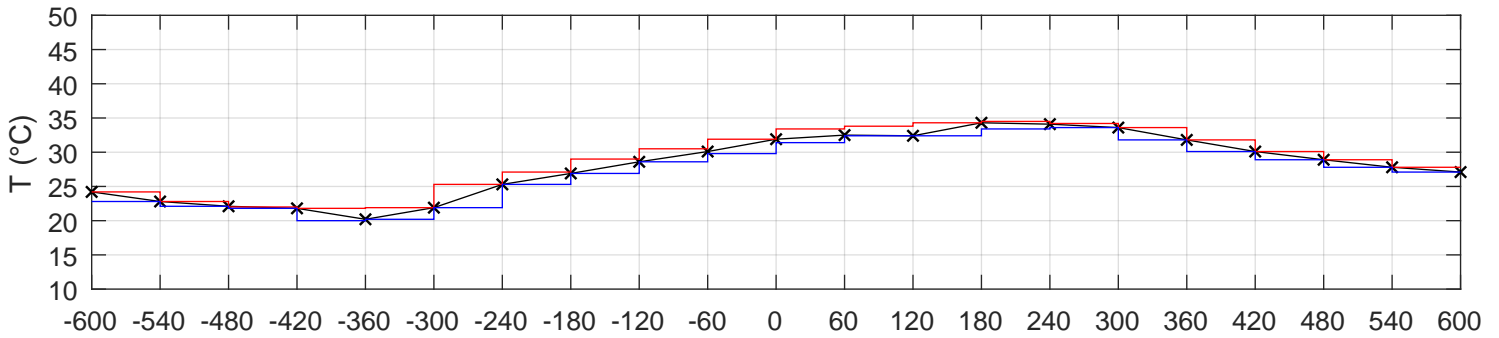
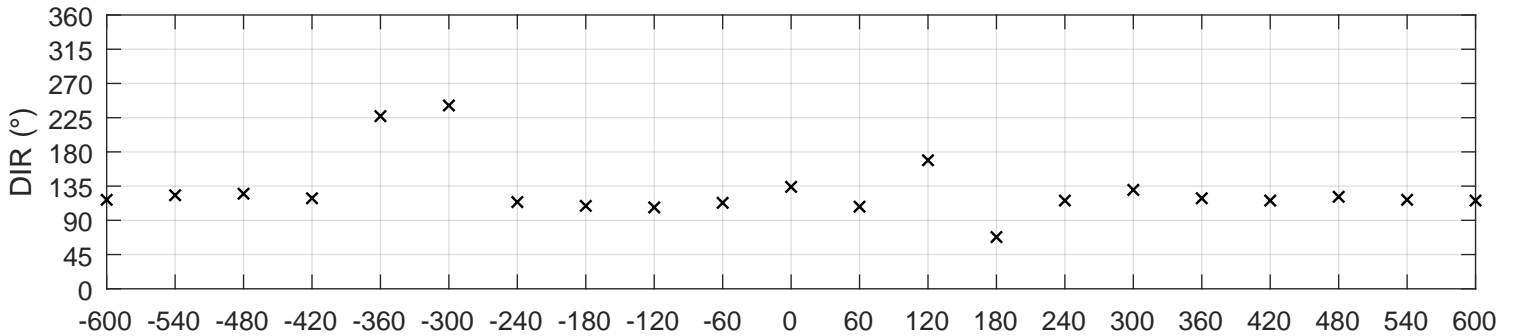
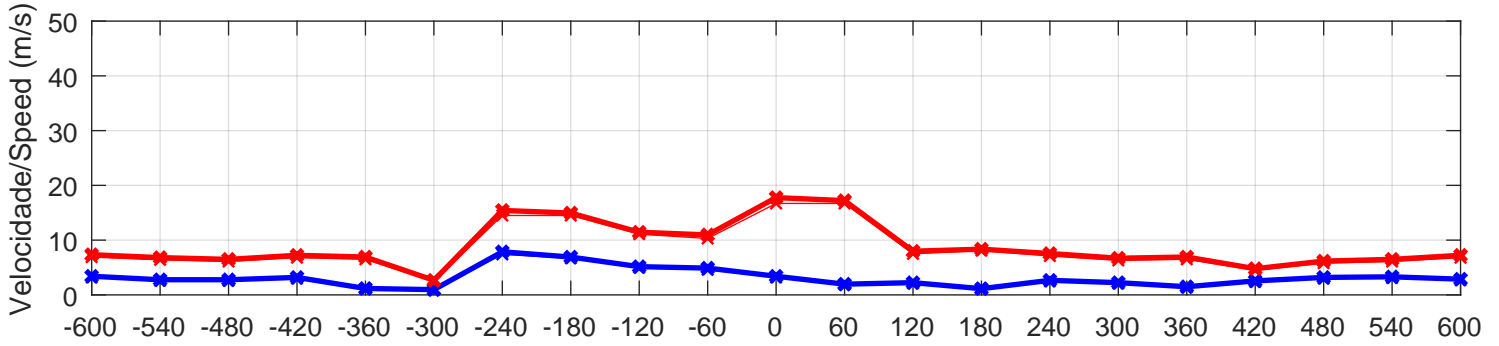
A336/81846 EVENTO/EVENT 30 - 18/02/2008, 22:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                          | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|--|--|---------------------------------|
| $G_{obs} = 17.8 \text{ m/s}$   | $R_{G,-6} = 3.7$ $R_{V,-6} = 1.8$ | $T_{med,3} = 27.2 \text{ }^\circ\text{C}$        | $DIR = 38^\circ$                       | NÃO-SINÓTICO                    |
| $V_{obs} = 3.8 \text{ m/s}$    | $R_{G,-3} = 3.4$ $R_{V,-3} = 1.6$ | $\Delta T_{min,3} = -7.1 \text{ }^\circ\text{C}$ | $\Delta DIR_{max,-3} = 162^\circ$      | NON-SYNOPTIC                    |
| $G_V = 4.7$                    | $R_{G,+3} = 4.3$ $R_{V,+3} = 1.9$ | $\Delta P_{max,3} = 2.1 \text{ hPa}$             | $\Delta DIR_{max,+3} = 142^\circ$      | (10)                            |
| $G_{cor} = 17.8 \text{ m/s}$   | $R_{G,+6} = 4.5$ $R_{V,+6} = 1.9$ | $\Delta$ Grupo/Group = 1                         |  |                                 |
| $V_{cor} = 3.9 \text{ m/s}$    |                                   |  |  |                                 |



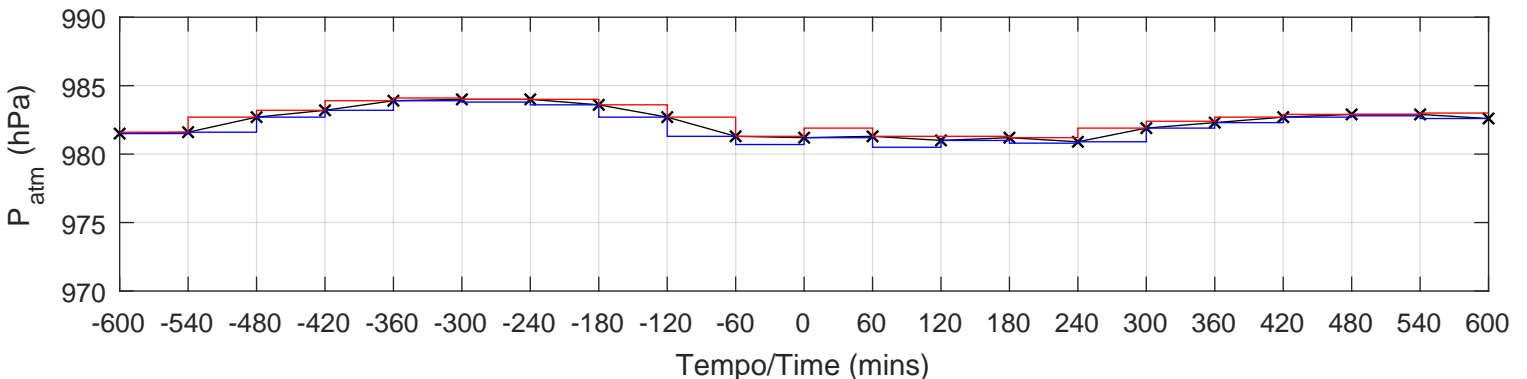
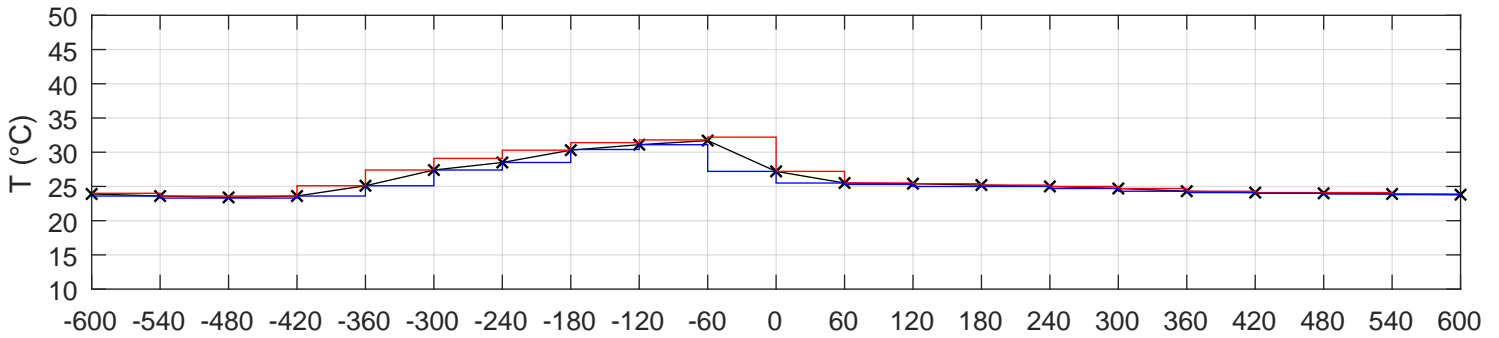
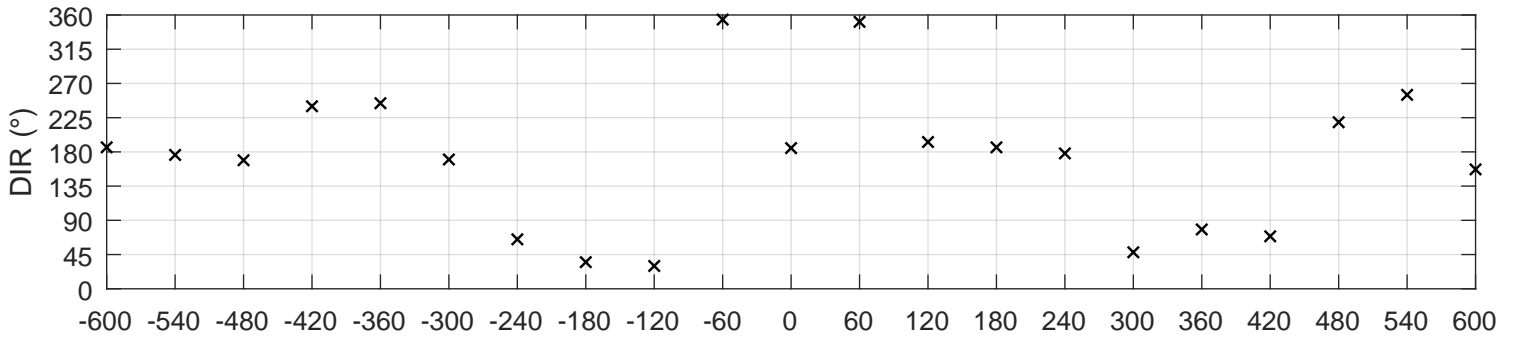
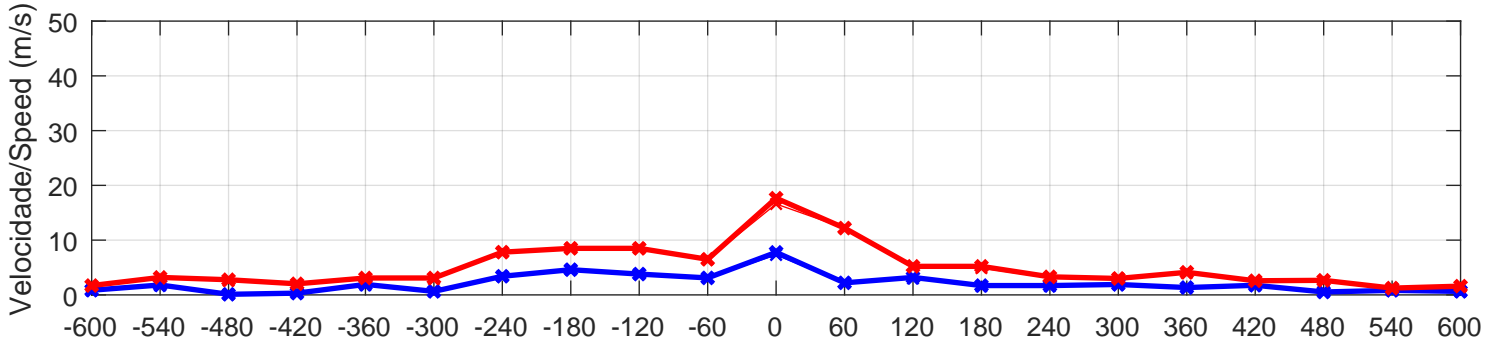
A336/81846 EVENTO/EVENT 31 - 31/08/2018, 15:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                          | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|--|--|---------------------------------|
| $G_{obs} = 16.7 \text{ m/s}$   | $R_{G,-6} = 1.7$ $R_{V,-6} = 1.1$ | $T_{med,3} = 28.5 \text{ }^\circ\text{C}$        | $DIR = 134^\circ$                      | SINÓTICO                        |
| $V_{obs} = 4.6 \text{ m/s}$    | $R_{G,-3} = 1.4$ $R_{V,-3} = 0.7$ | $\Delta T_{min,3} = -0.7 \text{ }^\circ\text{C}$ | $\Delta DIR_{max,-3} = 27^\circ$       | SYNOPTIC                        |
| $G_V = 3.6$                    | $R_{G,+3} = 1.6$ $R_{V,+3} = 1.9$ | $\Delta P_{max,3} = 0.2 \text{ hPa}$             | $\Delta DIR_{max,+3} = 66^\circ$       | (22)                            |
| $G_{cor} = 17.8 \text{ m/s}$   | $R_{G,+6} = 1.9$ $R_{V,+6} = 2.1$ | $\Delta$ Grupo/Group = 3                         |  |                                 |
| $V_{cor} = 4.9 \text{ m/s}$    |                                   |  |  |                                 |



A336/81846 EVENTO/EVENT 32 - 14/05/2010, 17:00 UTC (WRDS - DISME)

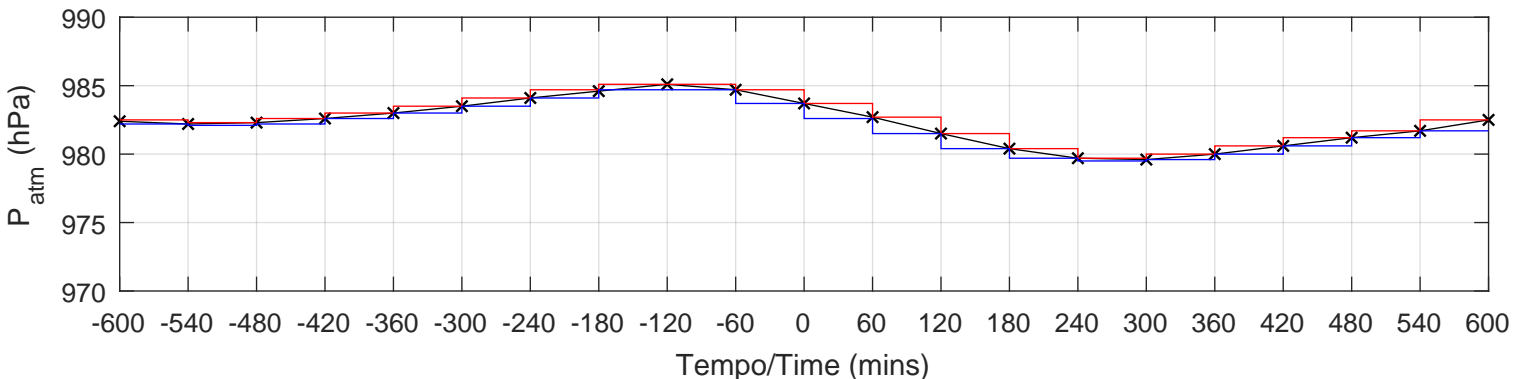
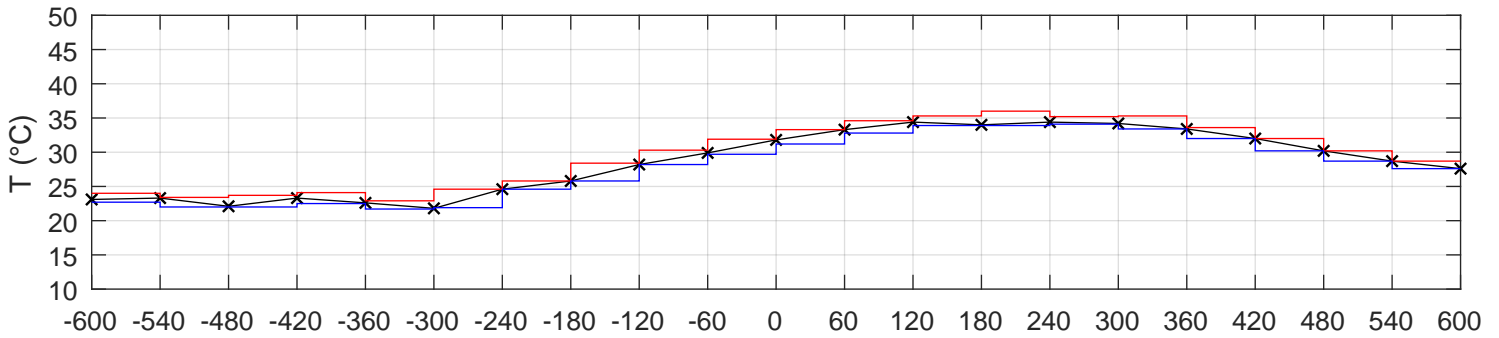
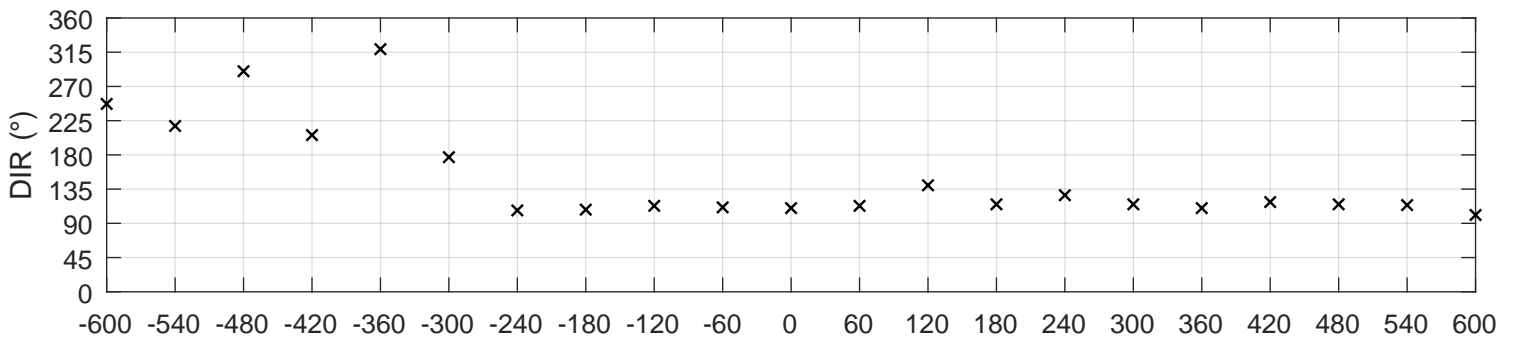
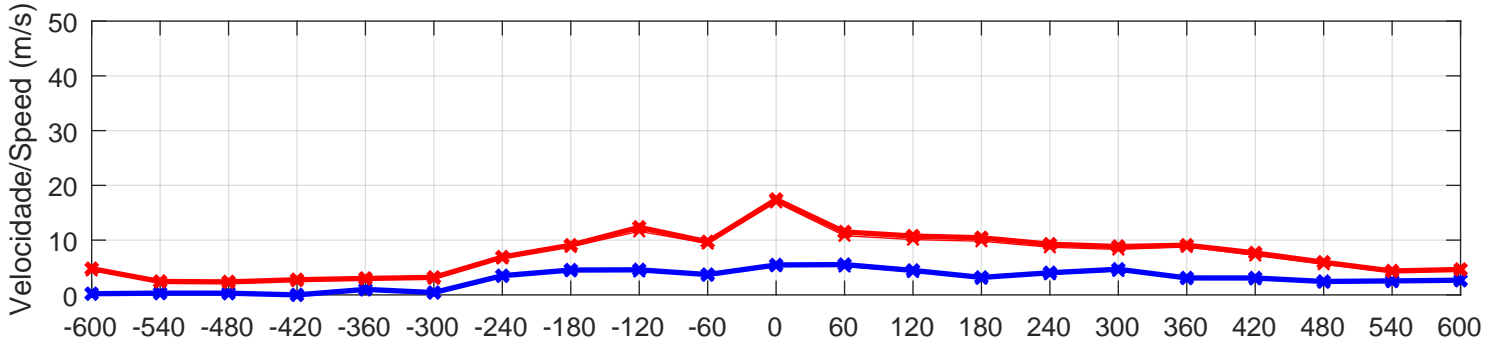
| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                          | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|--|--|---------------------------------|
| $G_{obs} = 16.6 \text{ m/s}$   | $R_{G,-6} = 2.7$ $R_{V,-6} = 2.5$ | $T_{med,3} = 31.0 \text{ }^\circ\text{C}$        | $DIR = 185^\circ$                      | NÃO-SINÓTICO                    |
| $V_{obs} = 7.3 \text{ m/s}$    | $R_{G,-3} = 2.1$ $R_{V,-3} = 1.9$ | $\Delta T_{min,3} = -6.7 \text{ }^\circ\text{C}$ | $\Delta DIR_{max,-3} = 169^\circ$      | NON-SYNOPTIC                    |
| $G_V = 2.3$                    | $R_{G,+3} = 2.3$ $R_{V,+3} = 3.2$ | $\Delta P_{max,3} = 1.2 \text{ hPa}$             | $\Delta DIR_{max,+3} = 166^\circ$      | (11)                            |
| $G_{cor} = 17.7 \text{ m/s}$   | $R_{G,+6} = 3.1$ $R_{V,+6} = 3.8$ | $\Delta$ Grupo/Group = 2                         |  |                                 |
| $V_{cor} = 7.8 \text{ m/s}$    |                                   |  |  |                                 |





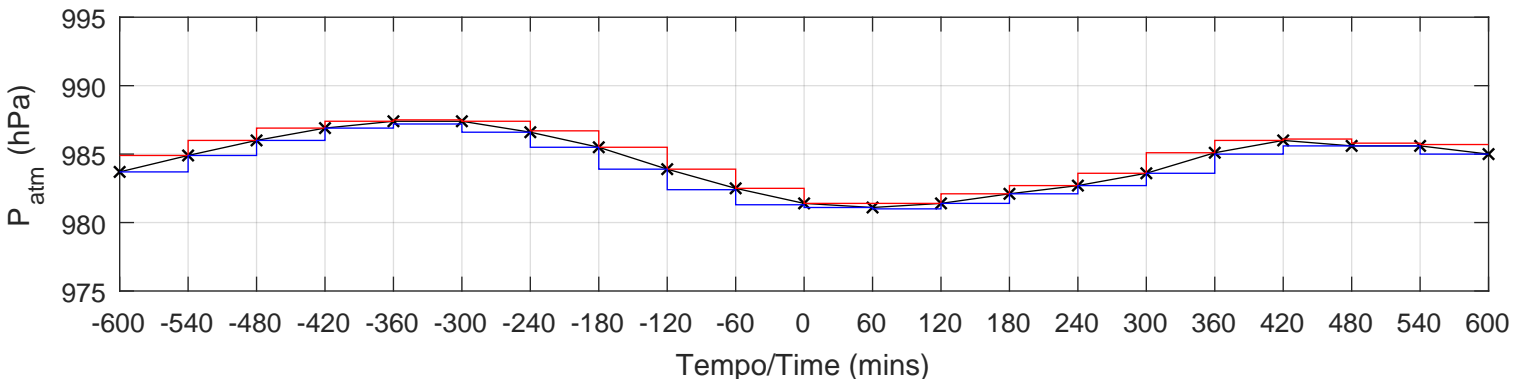
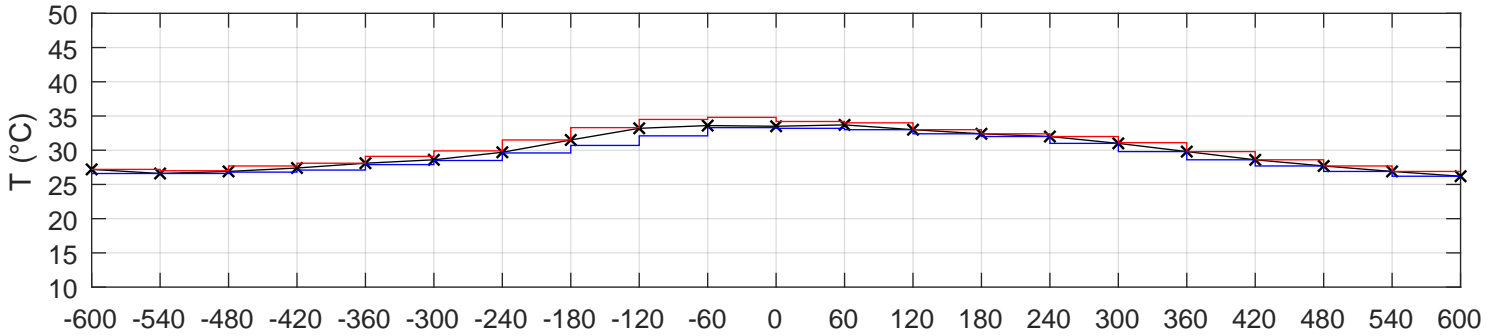
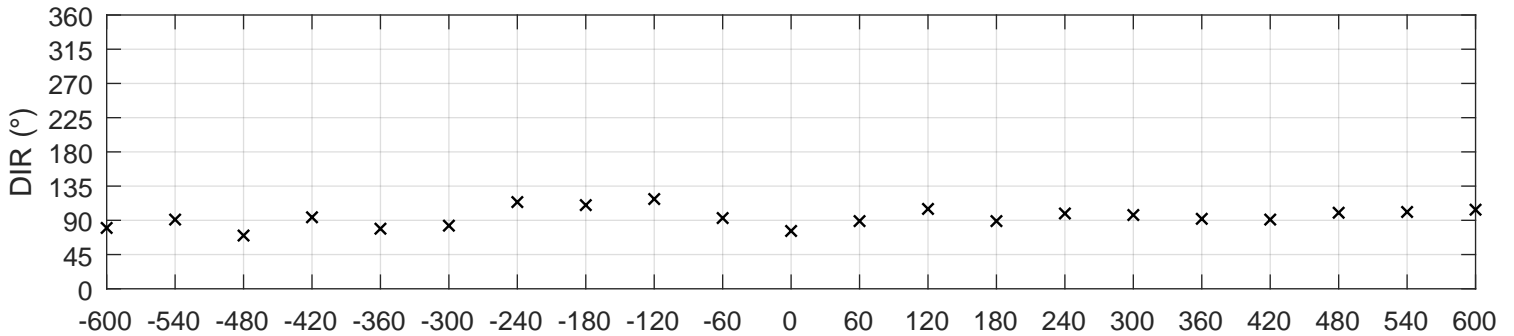
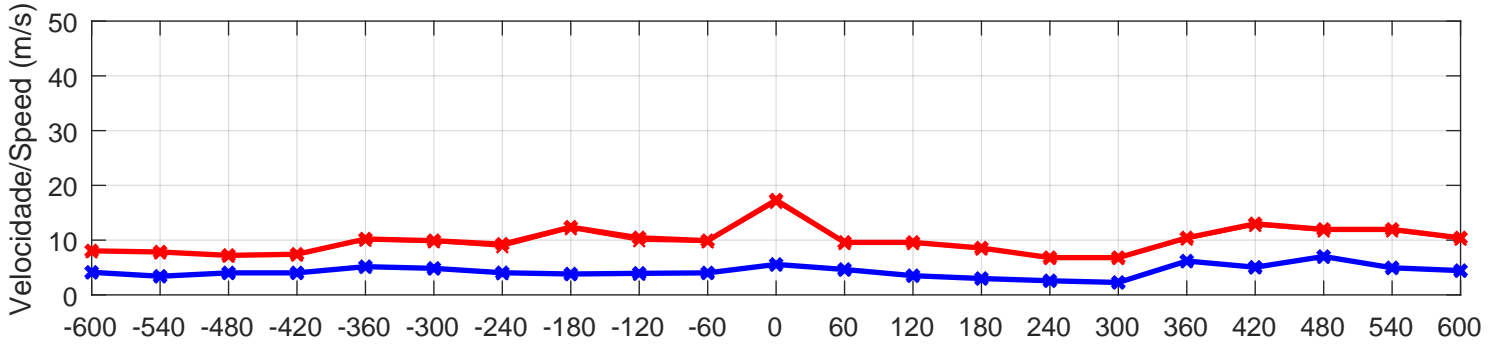
A336/81846 EVENTO/EVENT 34 - 24/08/2008, 14:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                          | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|--|--|---------------------------------|
| $G_{obs} = 16.9 \text{ m/s}$   | $R_{G,-6} = 2.4$ $R_{V,-6} = 1.9$ | $T_{med,3} = 28.0 \text{ }^\circ\text{C}$        | $DIR = 110^\circ$                      | SINÓTICO                        |
| $V_{obs} = 5.3 \text{ m/s}$    | $R_{G,-3} = 1.7$ $R_{V,-3} = 1.3$ | $\Delta T_{min,3} = -0.7 \text{ }^\circ\text{C}$ | $\Delta DIR_{max,-3} = 3^\circ$        | SYNOPTIC                        |
| $G_V = 3.2$                    | $R_{G,+3} = 1.7$ $R_{V,+3} = 1.3$ | $\Delta P_{max,3} = 0.4 \text{ hPa}$             | $\Delta DIR_{max,+3} = 30^\circ$       | (22)                            |
| $G_{cor} = 17.4 \text{ m/s}$   | $R_{G,+6} = 1.8$ $R_{V,+6} = 1.3$ | $\Delta$ Grupo/Group = 3                         |  |                                 |
| $V_{cor} = 5.5 \text{ m/s}$    |                                   |  |  |                                 |



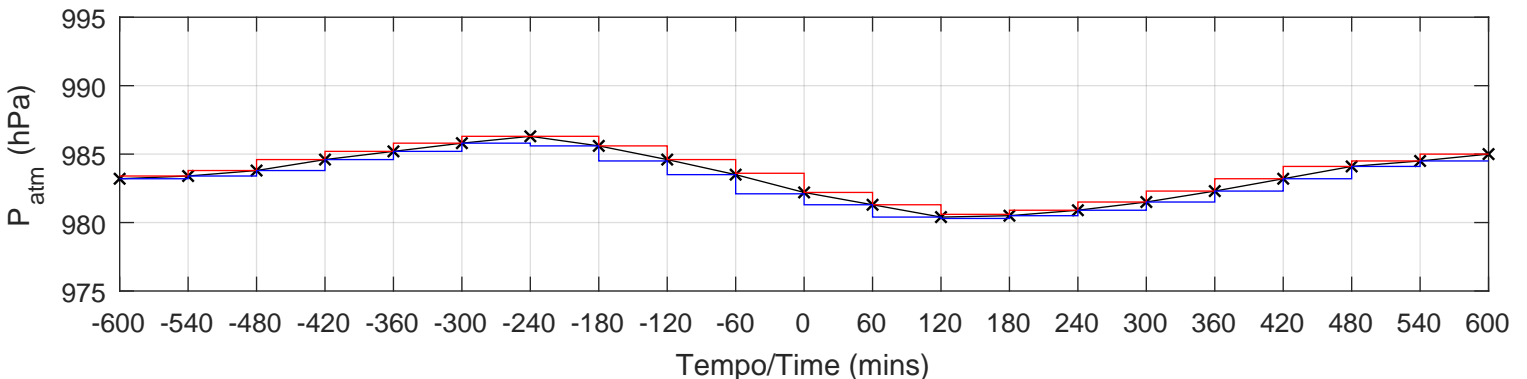
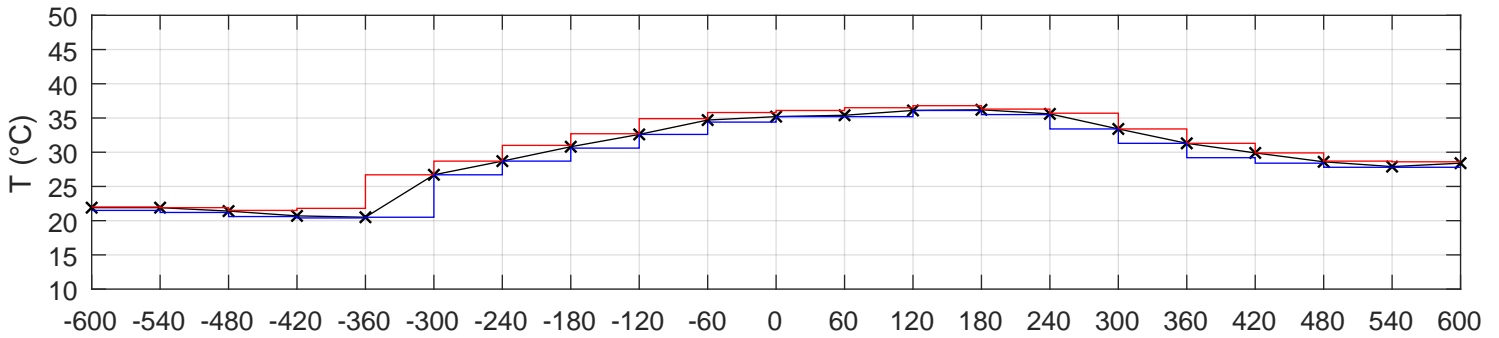
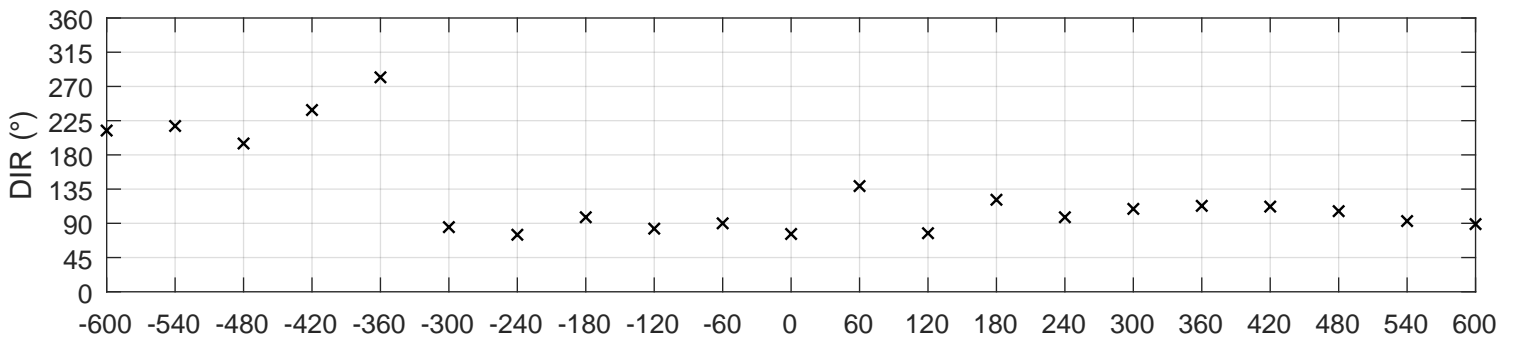
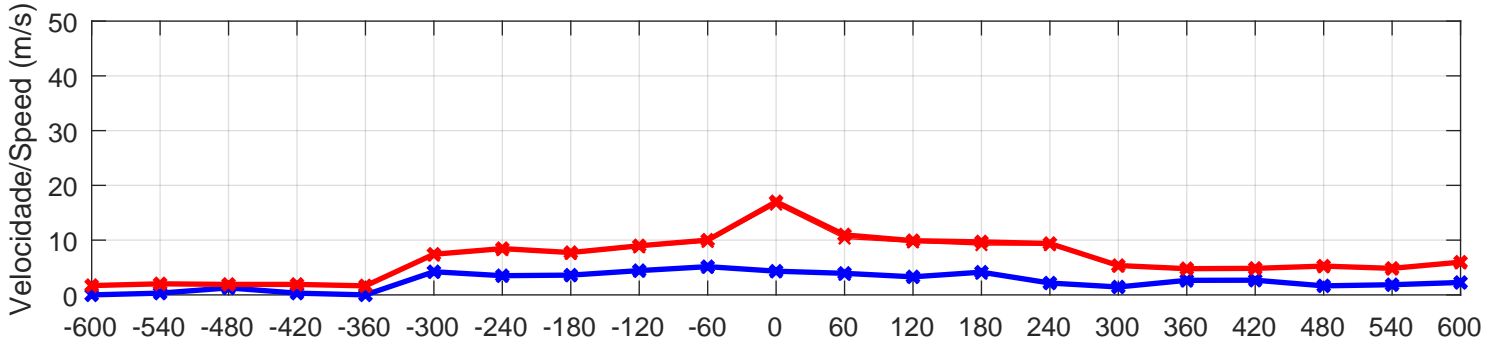
A336/81846 EVENTO/EVENT 35 - 28/09/2012, 18:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                          | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|--|--|---------------------------------|
| $G_{obs} = 16.8 \text{ m/s}$   | $R_{G,-6} = 1.7$ $R_{V,-6} = 1.3$ | $T_{med,3} = 32.8 \text{ }^\circ\text{C}$        | $DIR = 76^\circ$                       | SINÓTICO                        |
| $V_{obs} = 5.4 \text{ m/s}$    | $R_{G,-3} = 1.6$ $R_{V,-3} = 1.4$ | $\Delta T_{min,3} = -1.6 \text{ }^\circ\text{C}$ | $\Delta DIR_{max,-3} = 42^\circ$       | SYNOPTIC                        |
| $G_V = 3.1$                    | $R_{G,+3} = 1.9$ $R_{V,+3} = 1.5$ | $\Delta P_{max,3} = 0.1 \text{ hPa}$             | $\Delta DIR_{max,+3} = 29^\circ$       | (22)                            |
| $G_{cor} = 17.3 \text{ m/s}$   | $R_{G,+6} = 2.0$ $R_{V,+6} = 1.5$ | $\Delta$ Grupo/Group = 3                         |  |                                 |
| $V_{cor} = 5.6 \text{ m/s}$    |                                   |  |  |                                 |



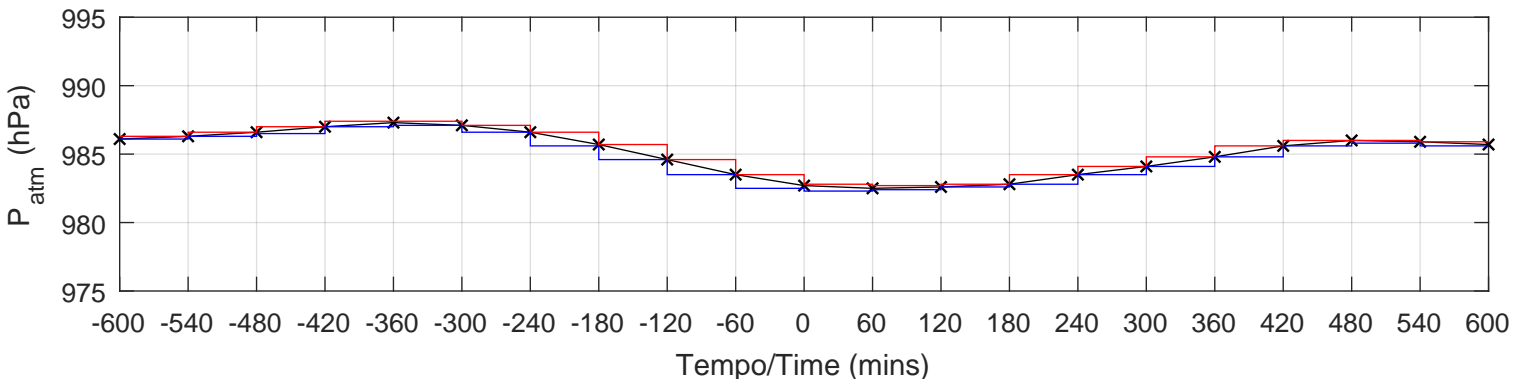
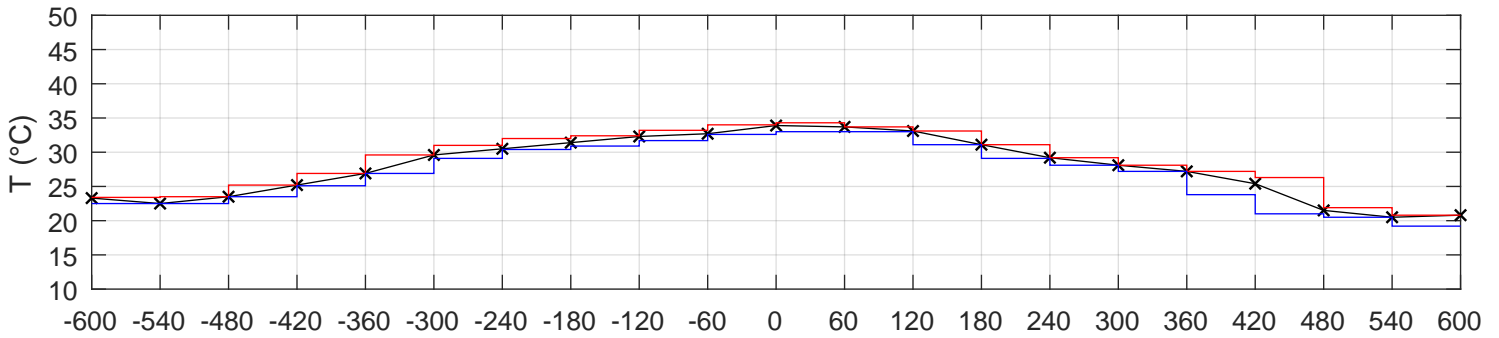
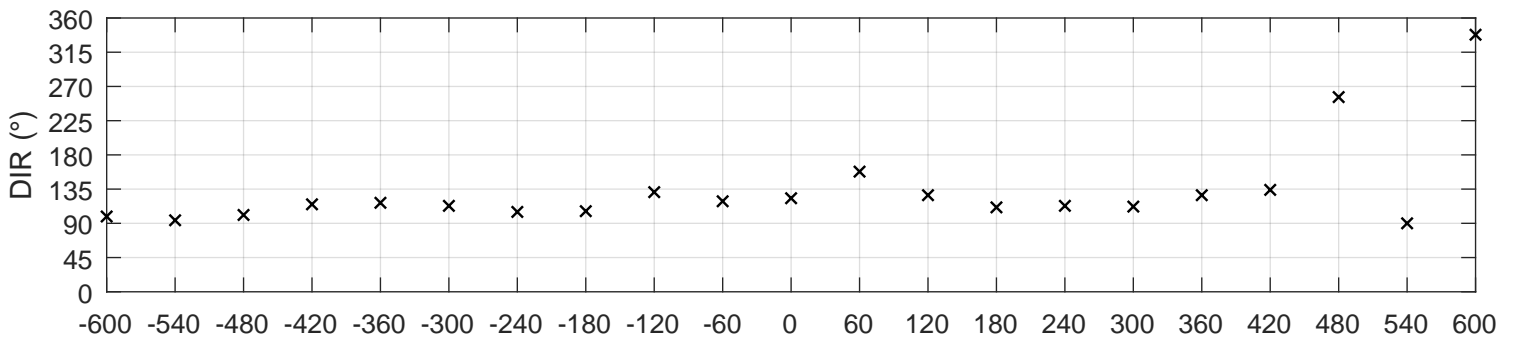
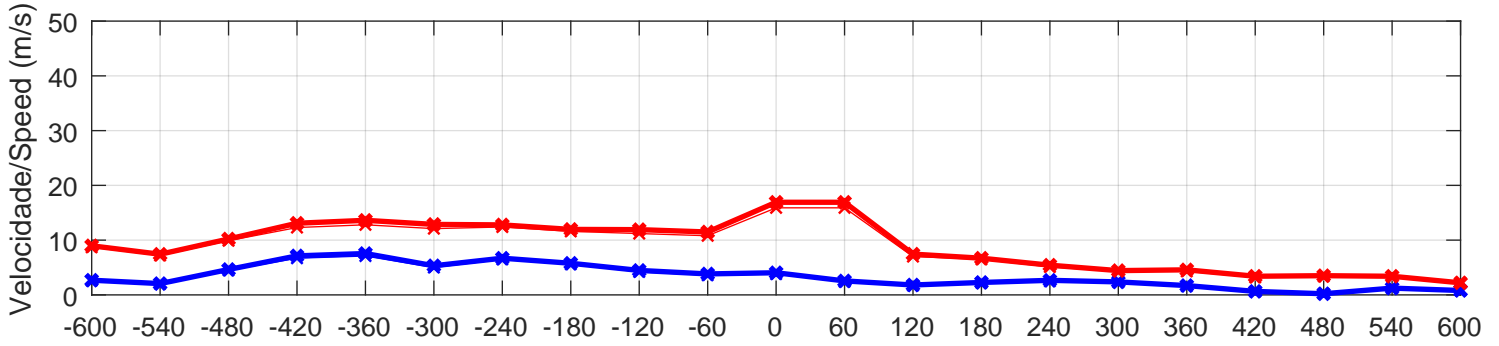
A336/81846 EVENTO/EVENT 39 - 24/08/2018, 16:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                          | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|--|--|---------------------------------|
| $G_{obs} = 16.5 \text{ m/s}$   | $R_{G,-6} = 2.3$ $R_{V,-6} = 1.9$ | $T_{med,3} = 32.7 \text{ }^\circ\text{C}$        | $DIR = 76^\circ$                       | SINÓTICO                        |
| $V_{obs} = 5.0 \text{ m/s}$    | $R_{G,-3} = 1.9$ $R_{V,-3} = 1.3$ | $\Delta T_{min,3} = -0.6 \text{ }^\circ\text{C}$ | $\Delta DIR_{max,-3} = 22^\circ$       | SYNOPTIC                        |
| $G_V = 3.3$                    | $R_{G,+3} = 1.7$ $R_{V,+3} = 1.4$ | $\Delta P_{max,3} = 0.1 \text{ hPa}$             | $\Delta DIR_{max,+3} = 63^\circ$       | (22)                            |
| $G_{cor} = 17.0 \text{ m/s}$   | $R_{G,+6} = 2.1$ $R_{V,+6} = 1.6$ | $\Delta$ Grupo/Group = 3                         |  |                                 |
| $V_{cor} = 5.2 \text{ m/s}$    |                                   |  |  |                                 |



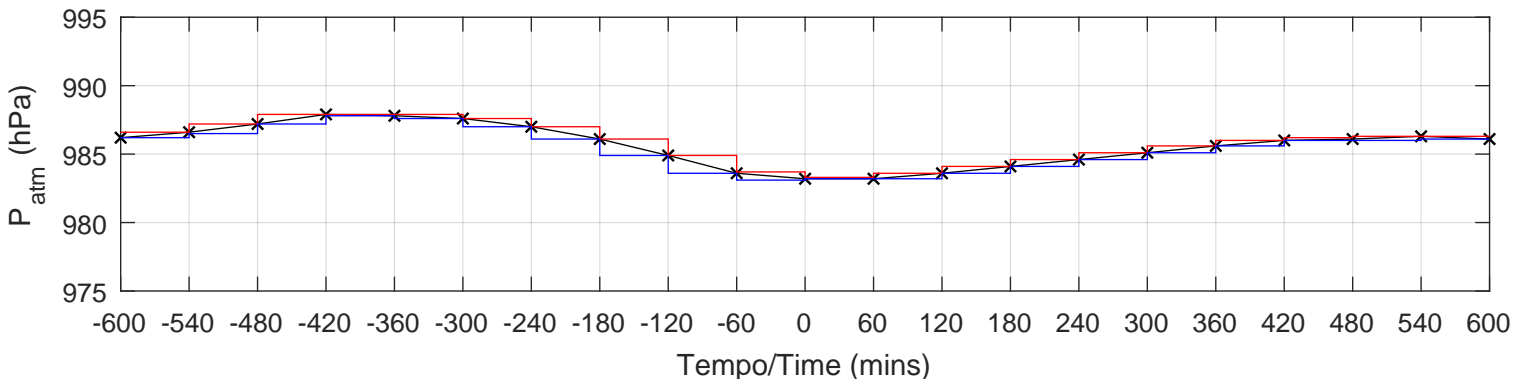
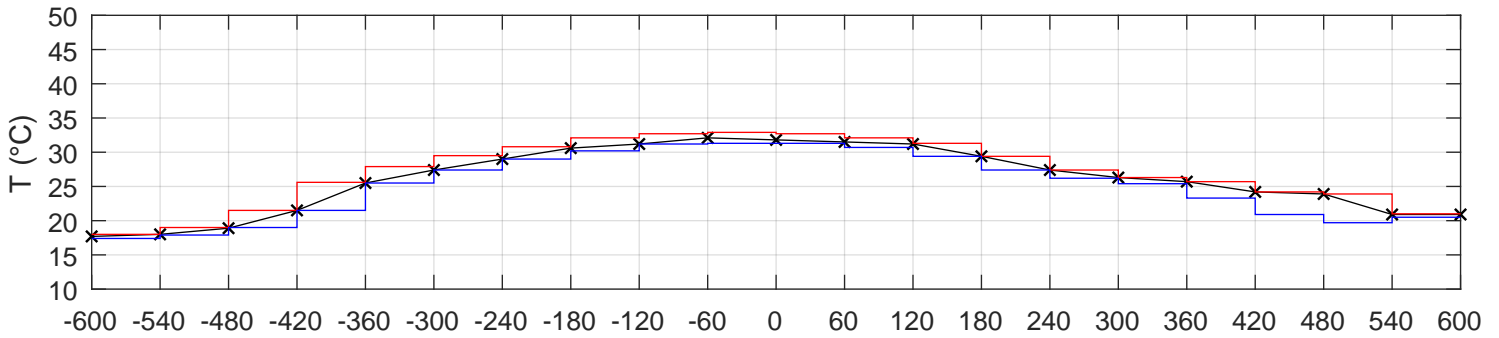
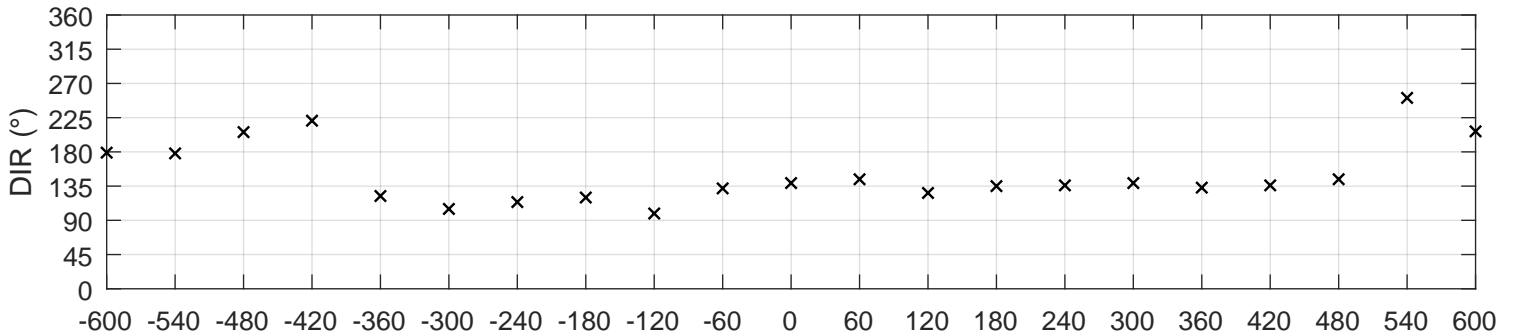
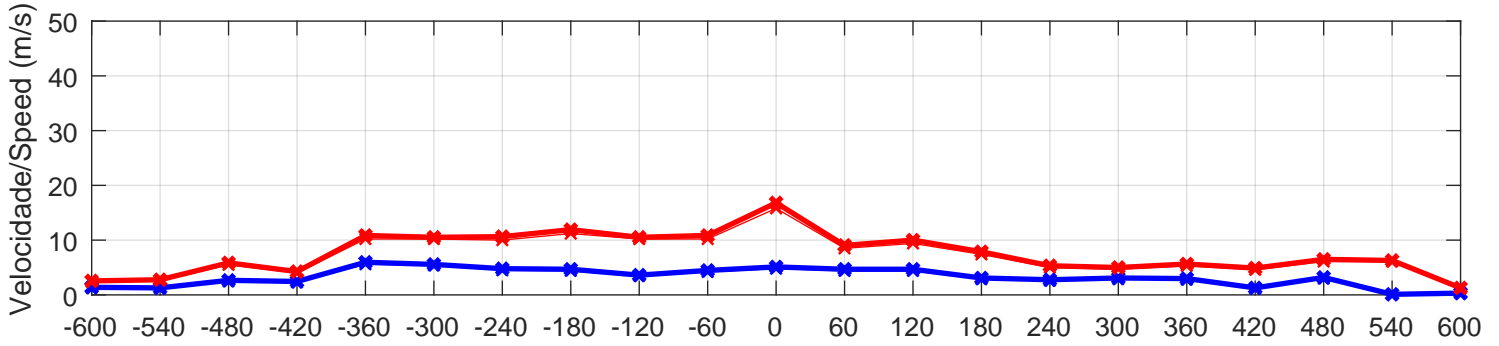
A336/81846 EVENTO/EVENT 42 - 04/08/2016, 18:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                          | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|--|--|---------------------------------|
| $G_{obs} = 15.9 \text{ m/s}$   | $R_{G,-6} = 1.3$ $R_{V,-6} = 0.7$ | $T_{med,3} = 32.1 \text{ }^\circ\text{C}$        | $DIR = 123^\circ$                      | SINÓTICO                        |
| $V_{obs} = 3.8 \text{ m/s}$    | $R_{G,-3} = 1.4$ $R_{V,-3} = 0.9$ | $\Delta T_{min,3} = -1.0 \text{ }^\circ\text{C}$ | $\Delta DIR_{max,-3} = 17^\circ$       | SYNOPTIC                        |
| $G_V = 4.2$                    | $R_{G,+3} = 1.6$ $R_{V,+3} = 1.8$ | $\Delta P_{max,3} = 0.3 \text{ hPa}$             | $\Delta DIR_{max,+3} = 35^\circ$       | (22)                            |
| $G_{cor} = 16.9 \text{ m/s}$   | $R_{G,+6} = 2.2$ $R_{V,+6} = 1.8$ | $\Delta$ Grupo/Group = 3                         |  |                                 |
| $V_{cor} = 4.0 \text{ m/s}$    |                                   |  |  |                                 |



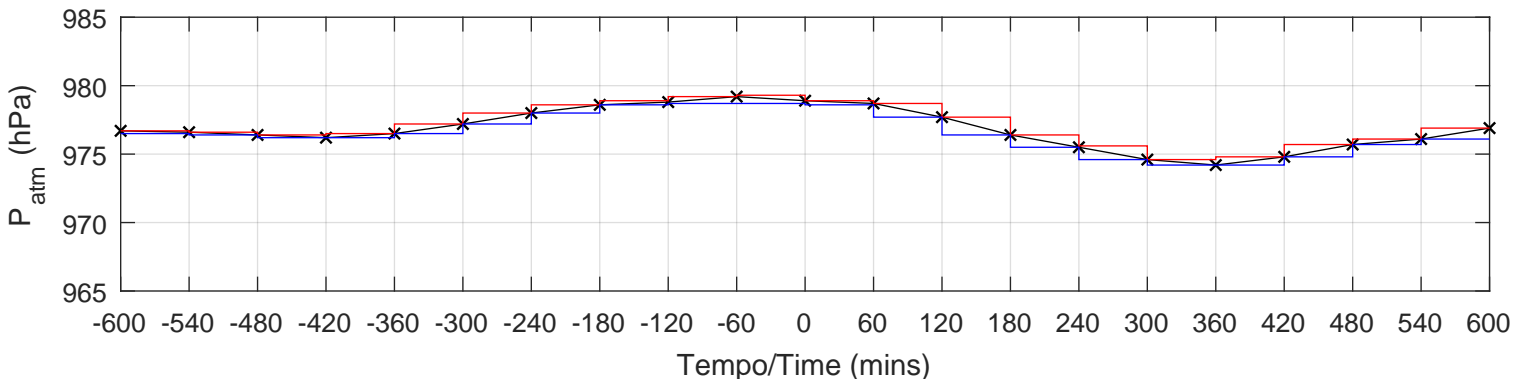
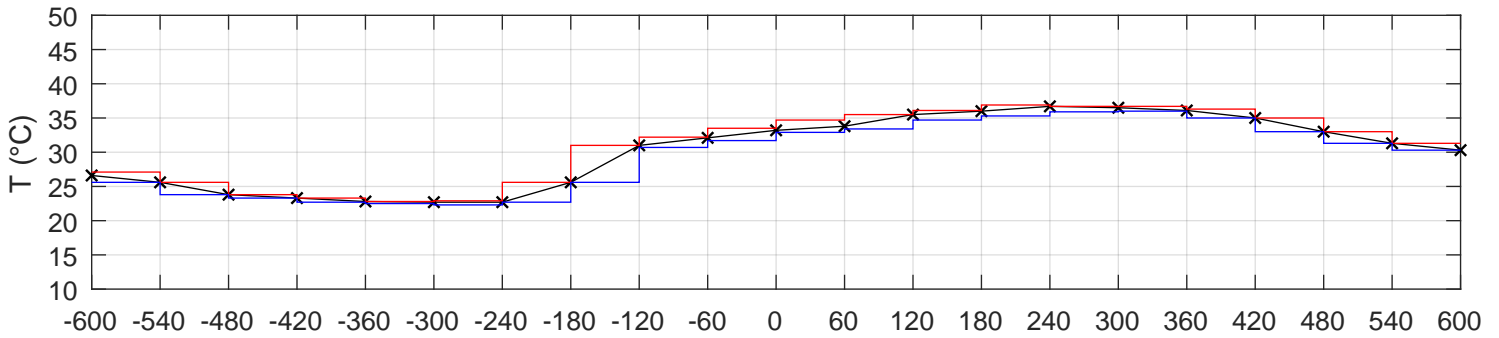
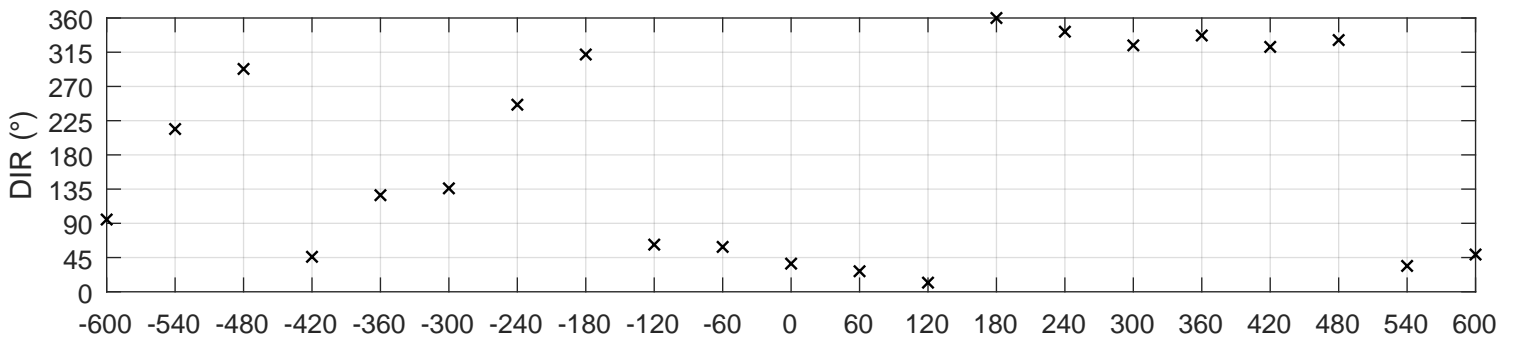
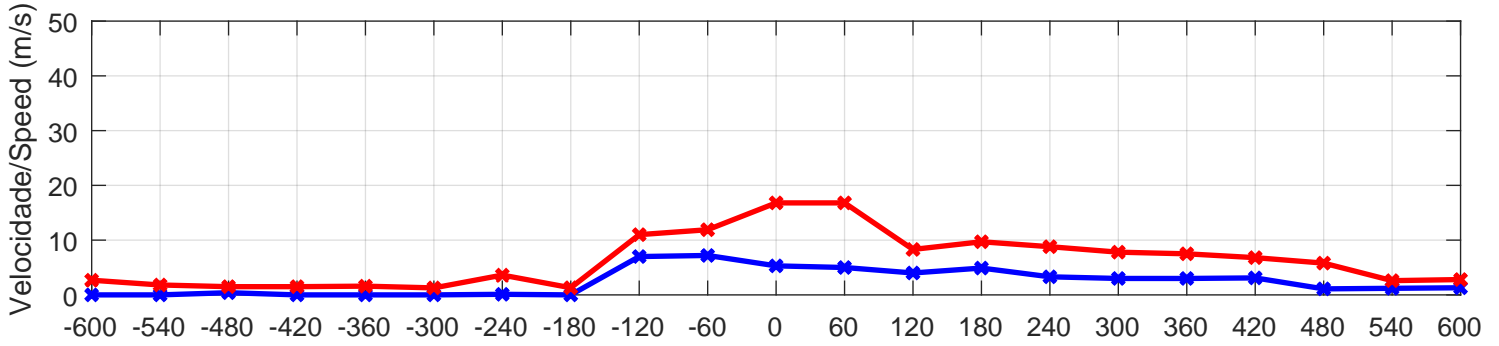
A336/81846 EVENTO/EVENT 46 - 11/07/2008, 18:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                          | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|--|--|---------------------------------|
| $G_{obs} = 15.8 \text{ m/s}$   | $R_{G,-6} = 1.5$ $R_{V,-6} = 1.0$ | $T_{med,3} = 31.3 \text{ }^\circ\text{C}$        | $DIR = 139^\circ$                      | SINÓTICO                        |
| $V_{obs} = 4.8 \text{ m/s}$    | $R_{G,-3} = 1.5$ $R_{V,-3} = 1.2$ | $\Delta T_{min,3} = -1.6 \text{ }^\circ\text{C}$ | $\Delta DIR_{max,-3} = 40^\circ$       | SYNOPTIC                        |
| $G_V = 3.3$                    | $R_{G,+3} = 1.9$ $R_{V,+3} = 1.2$ | $\Delta P_{max,3} = 0.2 \text{ hPa}$             | $\Delta DIR_{max,+3} = 13^\circ$       | (22)                            |
| $G_{cor} = 16.8 \text{ m/s}$   | $R_{G,+6} = 2.4$ $R_{V,+6} = 1.4$ | $\Delta$ Grupo/Group = 3                         |  |                                 |
| $V_{cor} = 5.1 \text{ m/s}$    |                                   |  |  |                                 |



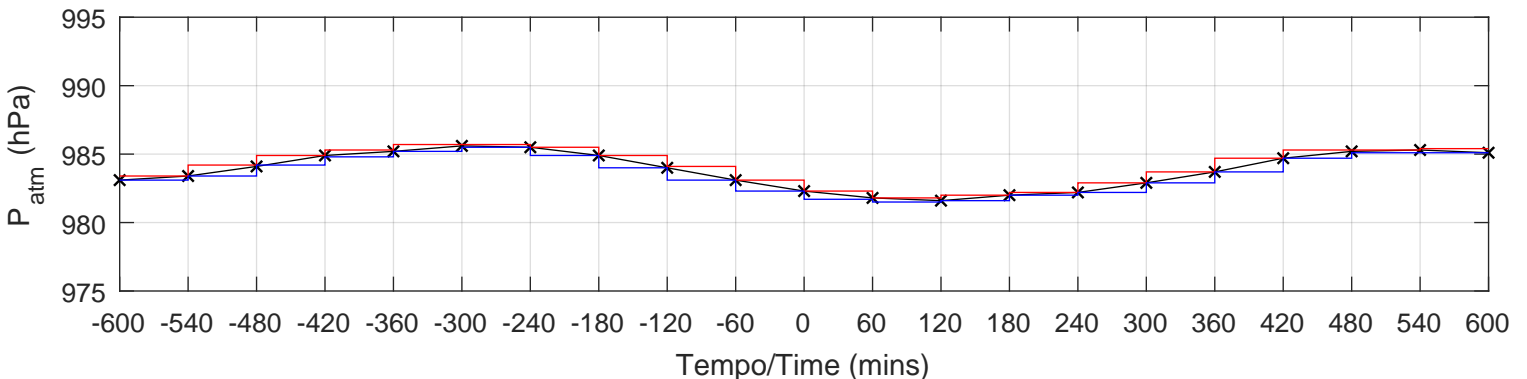
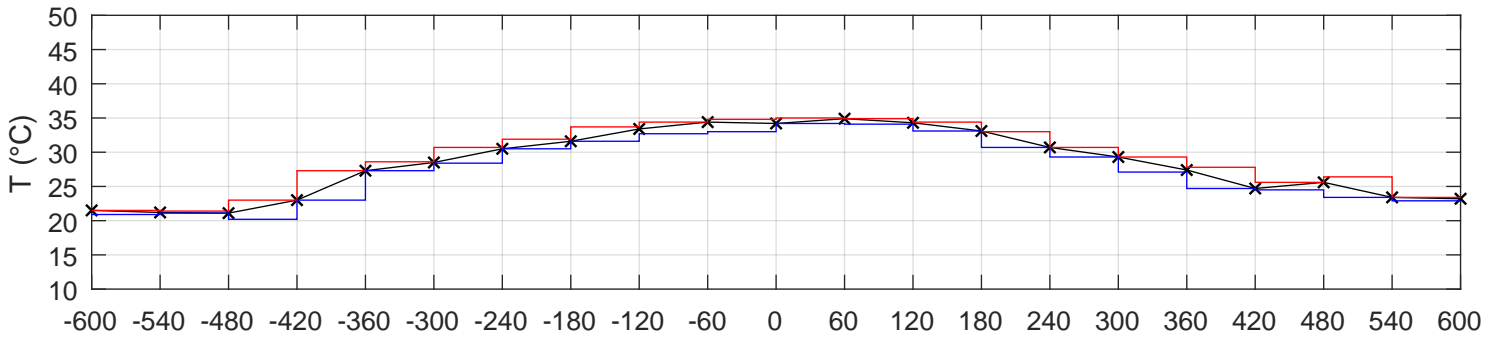
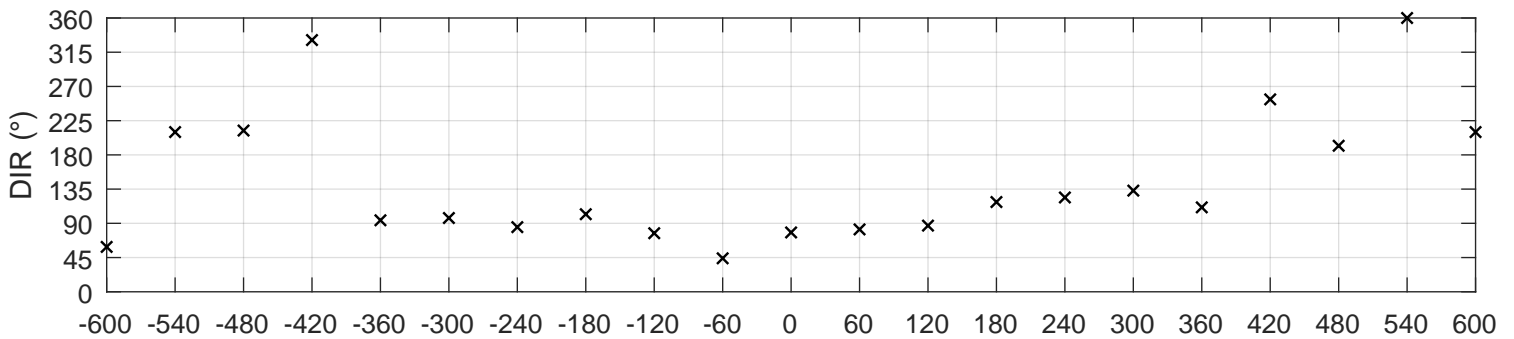
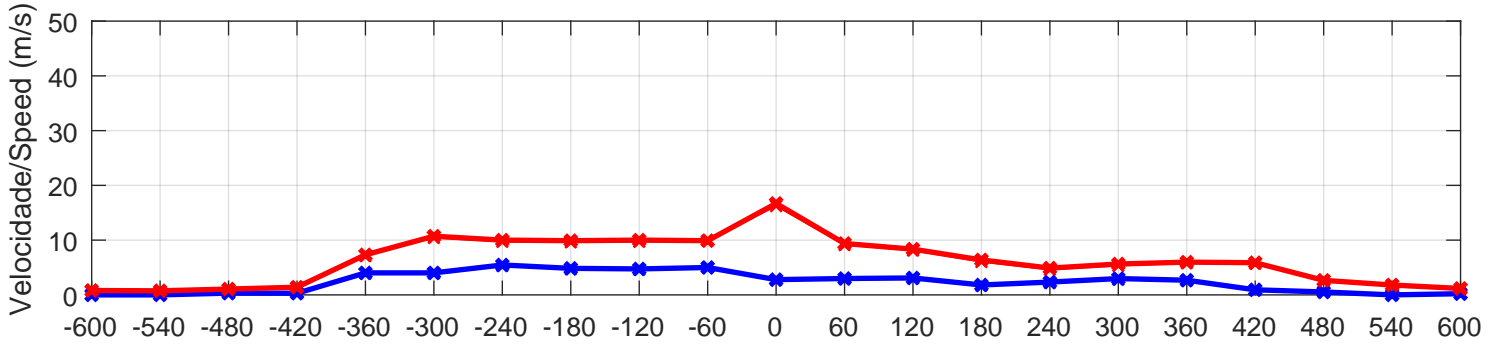
A336/81846 EVENTO/EVENT 48 - 11/11/2017, 13:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                          | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|--|--|---------------------------------|
| $G_{obs} = 16.8 \text{ m/s}$   | $R_{G,-6} = 3.3$ $R_{V,-6} = 6.1$ | $T_{med,3} = 29.6 \text{ }^\circ\text{C}$        | $DIR = 37^\circ$                       | SINÓTICO                        |
| $V_{obs} = 7.2 \text{ m/s}$    | $R_{G,-3} = 2.1$ $R_{V,-3} = 3.0$ | $\Delta T_{min,3} = -0.6 \text{ }^\circ\text{C}$ | $\Delta DIR_{max,-3} = 85^\circ$       | SYNOPTIC                        |
| $G_V = 2.3$                    | $R_{G,+3} = 1.4$ $R_{V,+3} = 1.5$ | $\Delta P_{max,3} = 0.6 \text{ hPa}$             | $\Delta DIR_{max,+3} = 37^\circ$       | (22)                            |
| $G_{cor} = 16.8 \text{ m/s}$   | $R_{G,+6} = 1.7$ $R_{V,+6} = 1.7$ | $\Delta$ Grupo/Group = 3                         |  |                                 |
| $V_{cor} = 7.2 \text{ m/s}$    |                                   |  |  |                                 |



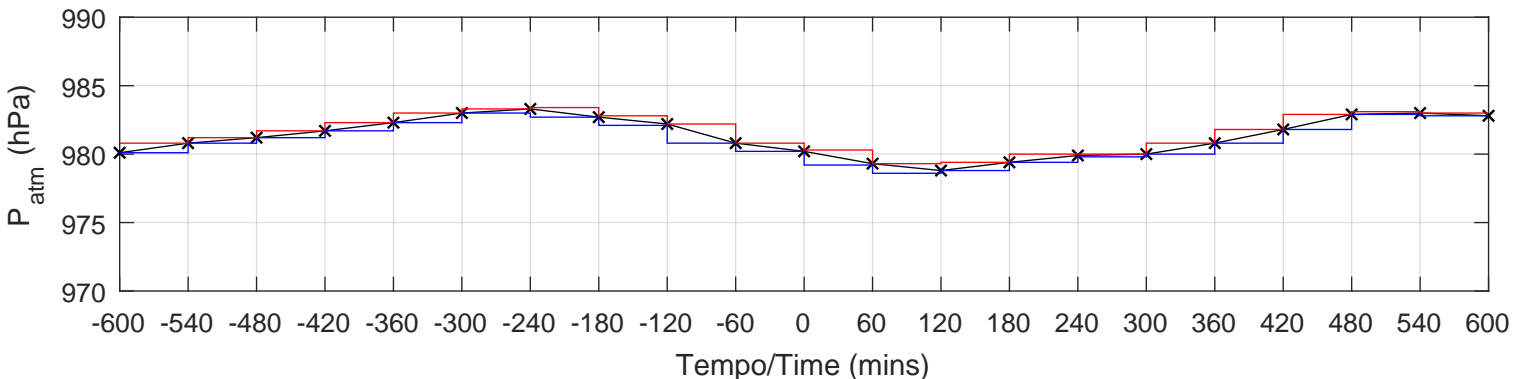
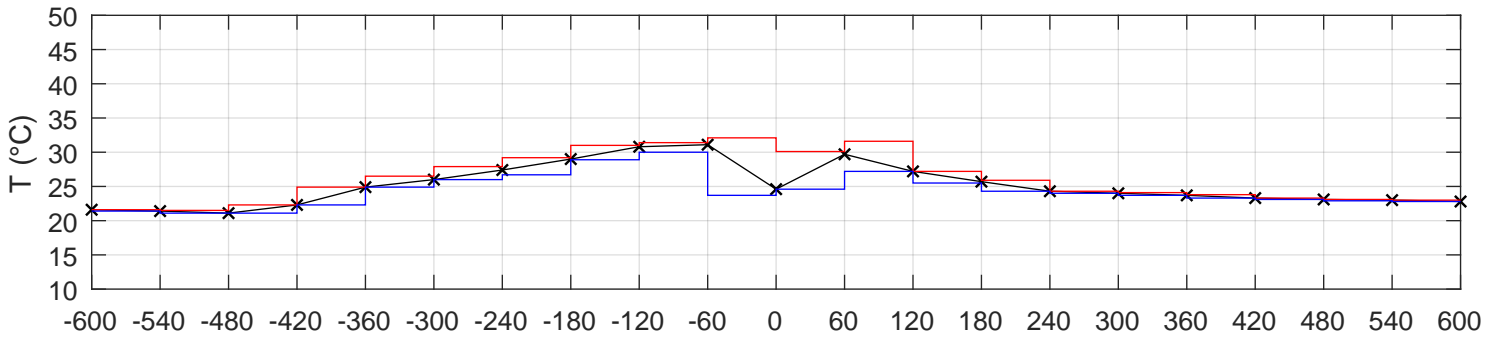
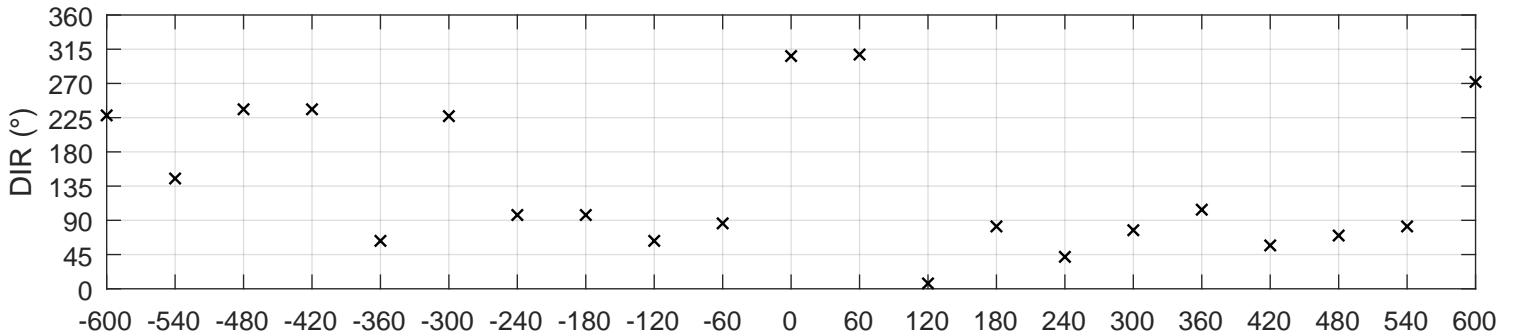
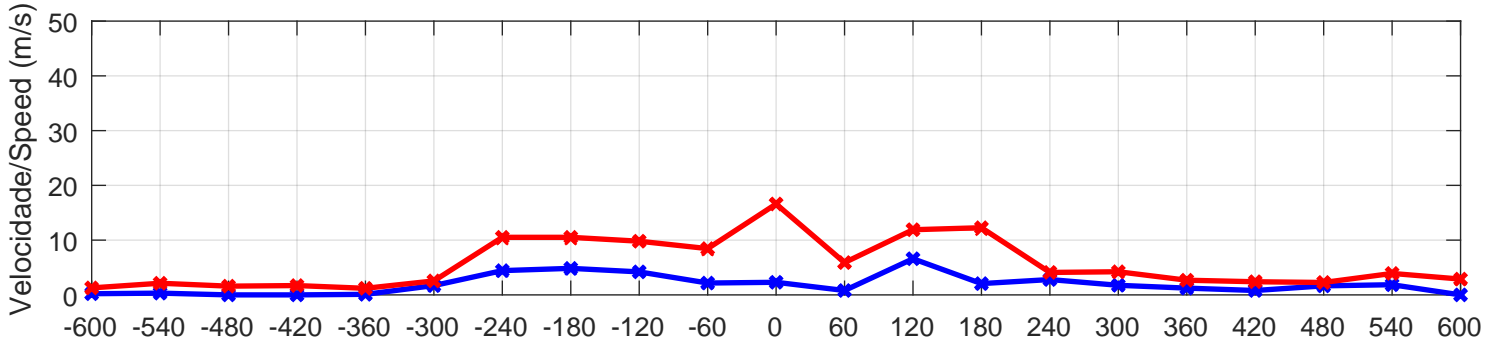
A336/81846 EVENTO/EVENT 49 - 23/05/2018, 17:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                          | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|--|--|---------------------------------|
| $G_{obs} = 16.2 \text{ m/s}$   | $R_{G,-6} = 1.7$ $R_{V,-6} = 1.3$ | $T_{med,3} = 33.1 \text{ }^\circ\text{C}$        | $DIR = 78^\circ$                       | SINÓTICO                        |
| $V_{obs} = 5.0 \text{ m/s}$    | $R_{G,-3} = 1.7$ $R_{V,-3} = 1.0$ | $\Delta T_{min,3} = -1.4 \text{ }^\circ\text{C}$ | $\Delta DIR_{max,-3} = 34^\circ$       | SYNOPTIC                        |
| $G_V = 3.2$                    | $R_{G,+3} = 2.1$ $R_{V,+3} = 1.7$ | $\Delta P_{max,3} = 0.1 \text{ hPa}$             | $\Delta DIR_{max,+3} = 40^\circ$       | (22)                            |
| $G_{cor} = 16.7 \text{ m/s}$   | $R_{G,+6} = 2.5$ $R_{V,+6} = 2.0$ | $\Delta$ Grupo/Group = 3                         |  |                                 |
| $V_{cor} = 5.0 \text{ m/s}$    |                                   |  |  |                                 |



A336/81846 EVENTO/EVENT 51 - 28/02/2018, 17:00 UTC (WRDS - WEB)

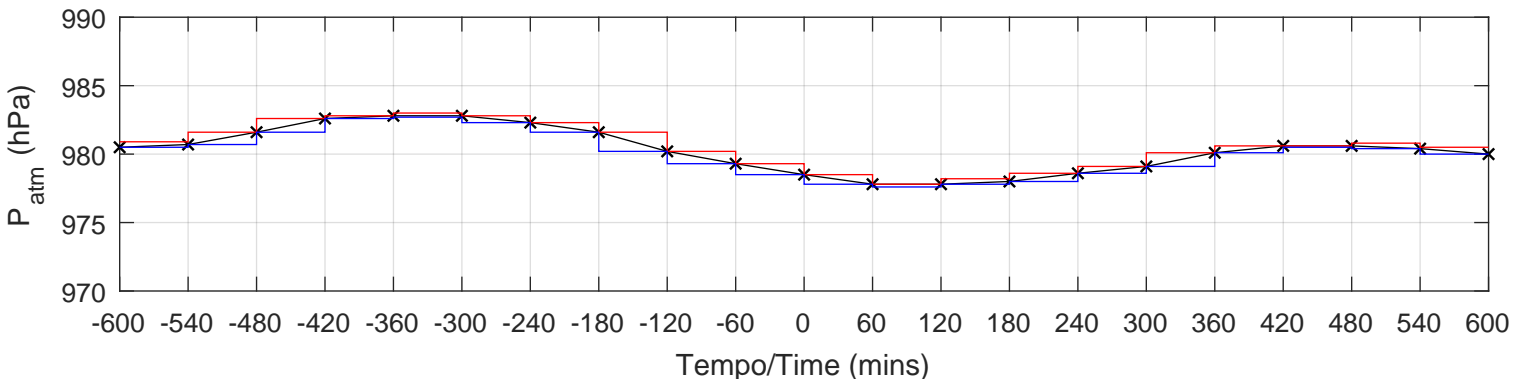
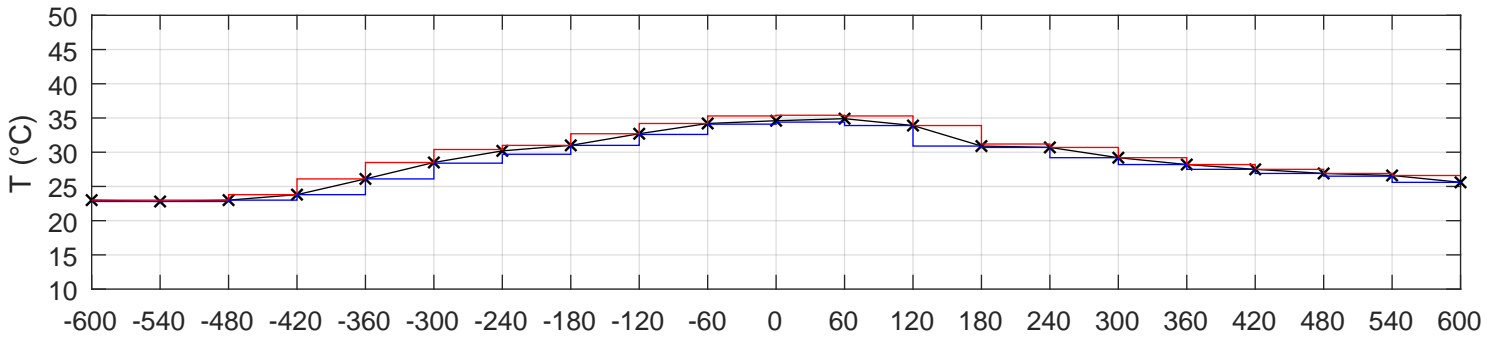
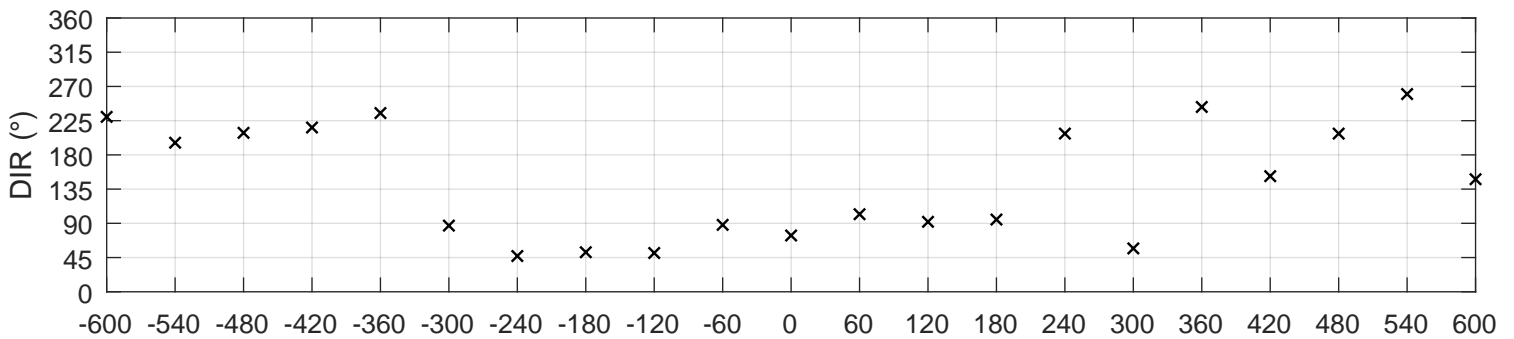
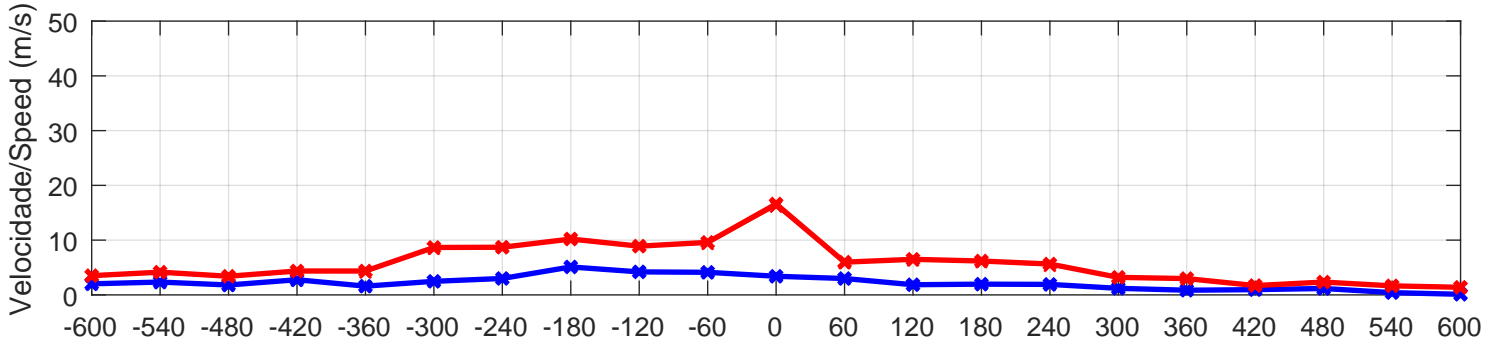
| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                          | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|--|--|---------------------------------|
| $G_{obs} = 16.6 \text{ m/s}$   | $R_{G,-6} = 2.4$ $R_{V,-6} = 0.8$ | $T_{med,3} = 30.3 \text{ }^\circ\text{C}$        | $DIR = 306^\circ$                      | SINÓTICO                        |
| $V_{obs} = 2.3 \text{ m/s}$    | $R_{G,-3} = 1.8$ $R_{V,-3} = 0.6$ | $\Delta T_{min,3} = -7.7 \text{ }^\circ\text{C}$ | $\Delta DIR_{max,-3} = 151^\circ$      | SYNOPTIC                        |
| $G_V = 7.2$                    | $R_{G,+3} = 1.7$ $R_{V,+3} = 0.7$ | $\Delta P_{max,3} = 0.1 \text{ hPa}$             | $\Delta DIR_{max,+3} = 136^\circ$      | (22)                            |
| $G_{cor} = 16.6 \text{ m/s}$   | $R_{G,+6} = 2.5$ $R_{V,+6} = 0.9$ | $\Delta$ Grupo/Group = 3                         |  |                                 |
| $V_{cor} = 2.3 \text{ m/s}$    |                                   |  |  |                                 |





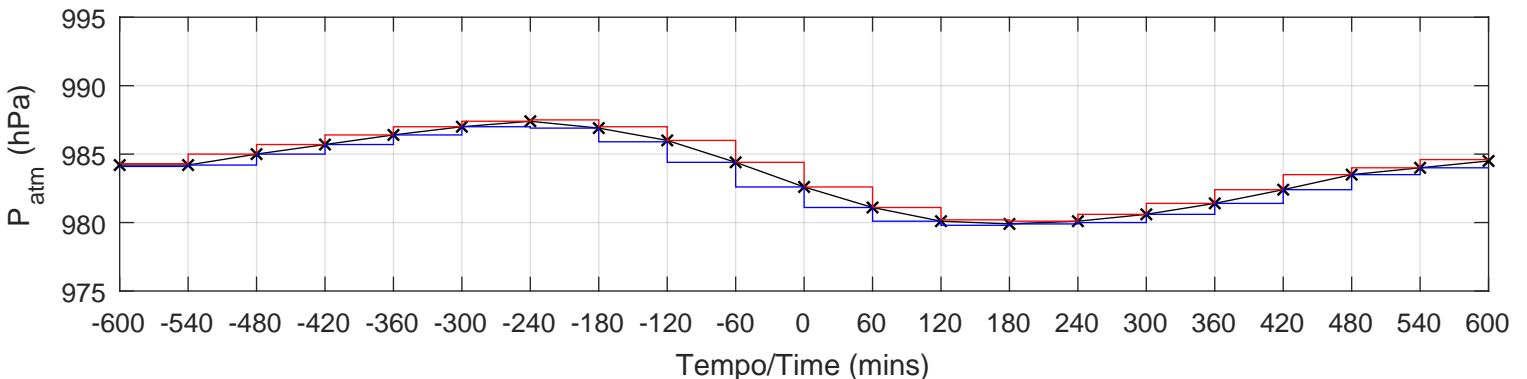
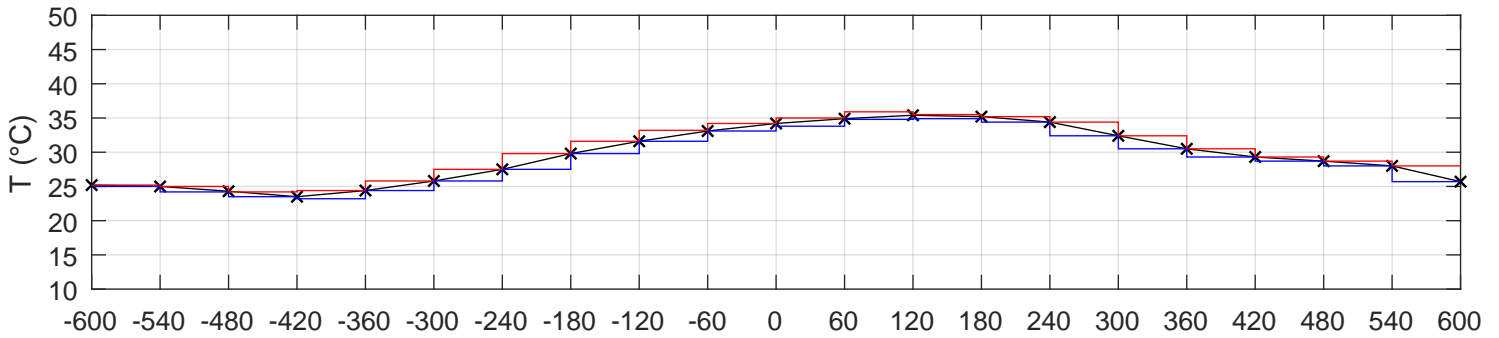
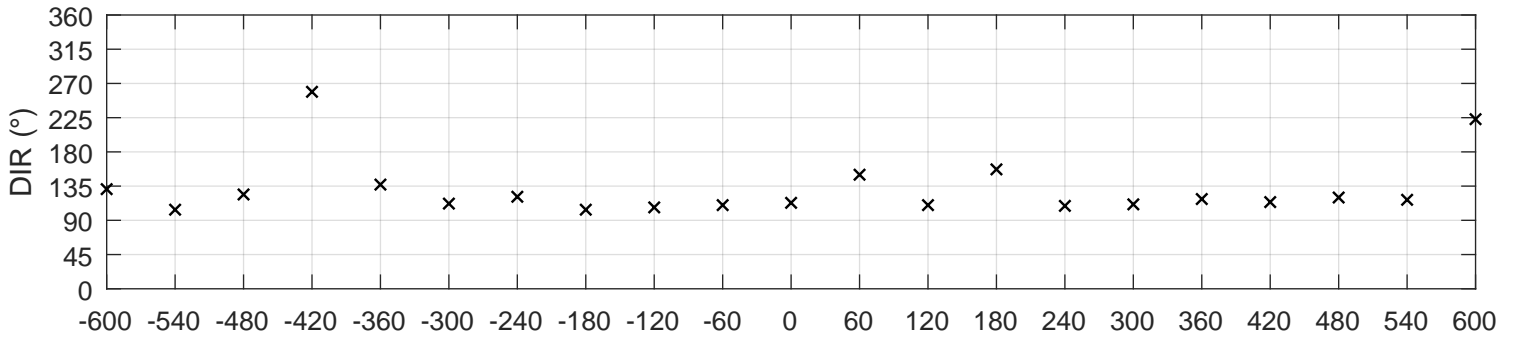
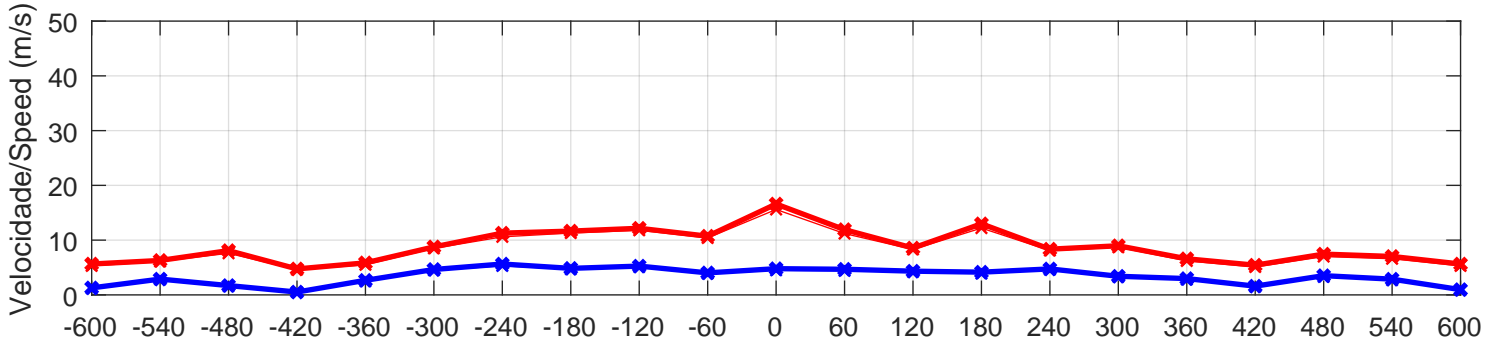
A336/81846 EVENTO/EVENT 52 - 15/03/2010, 18:00 UTC (WRDS - DISME)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                          | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|--|--|---------------------------------|
| $G_{obs} = 16.1 \text{ m/s}$   | $R_{G,-6} = 1.9$ $R_{V,-6} = 1.3$ | $T_{med,3} = 32.6 \text{ }^\circ\text{C}$        | $DIR = 74^\circ$                       | SINÓTICO                        |
| $V_{obs} = 4.0 \text{ m/s}$    | $R_{G,-3} = 1.7$ $R_{V,-3} = 1.0$ | $\Delta T_{min,3} = -0.9 \text{ }^\circ\text{C}$ | $\Delta DIR_{max,-3} = 23^\circ$       | SYNOPTIC                        |
| $G_V = 4.0$                    | $R_{G,+3} = 2.7$ $R_{V,+3} = 1.5$ | $\Delta P_{max,3} = 0.0 \text{ hPa}$             | $\Delta DIR_{max,+3} = 28^\circ$       | (22)                            |
| $G_{cor} = 16.6 \text{ m/s}$   | $R_{G,+6} = 3.3$ $R_{V,+6} = 1.9$ | $\Delta$ Grupo/Group = 3                         |  |                                 |
| $V_{cor} = 4.1 \text{ m/s}$    |                                   |  |  |                                 |



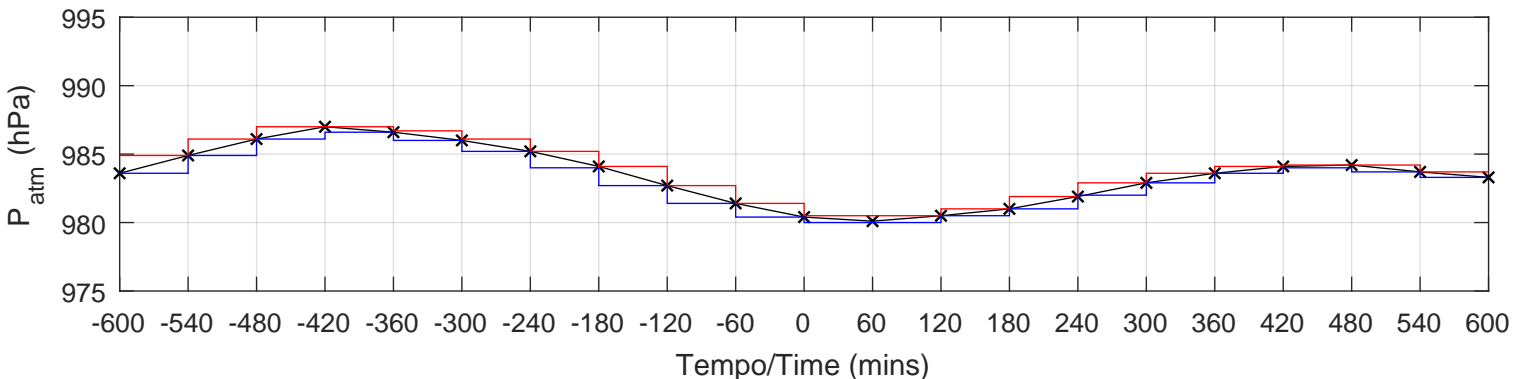
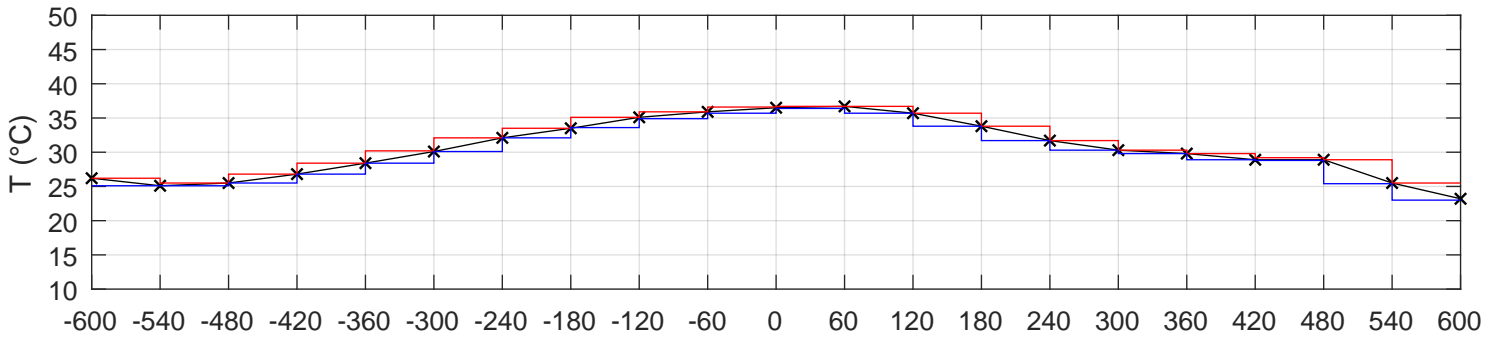
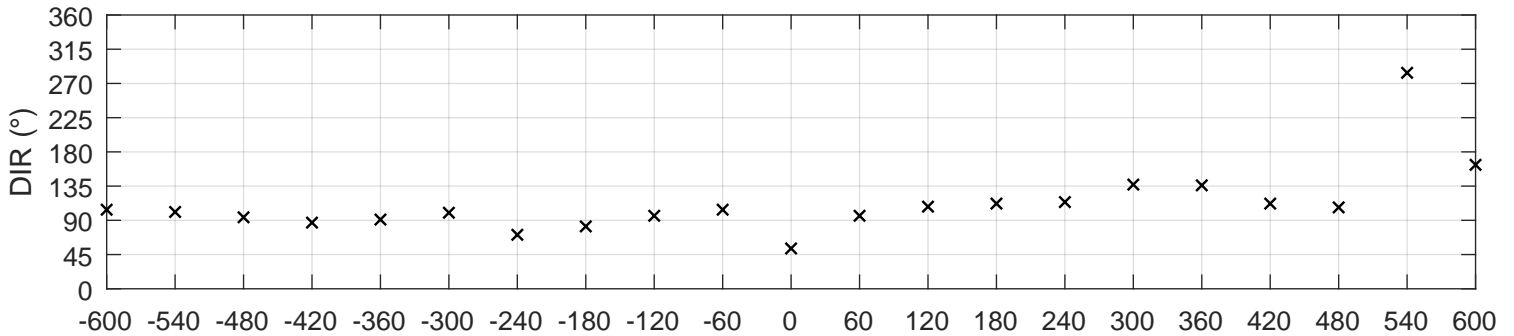
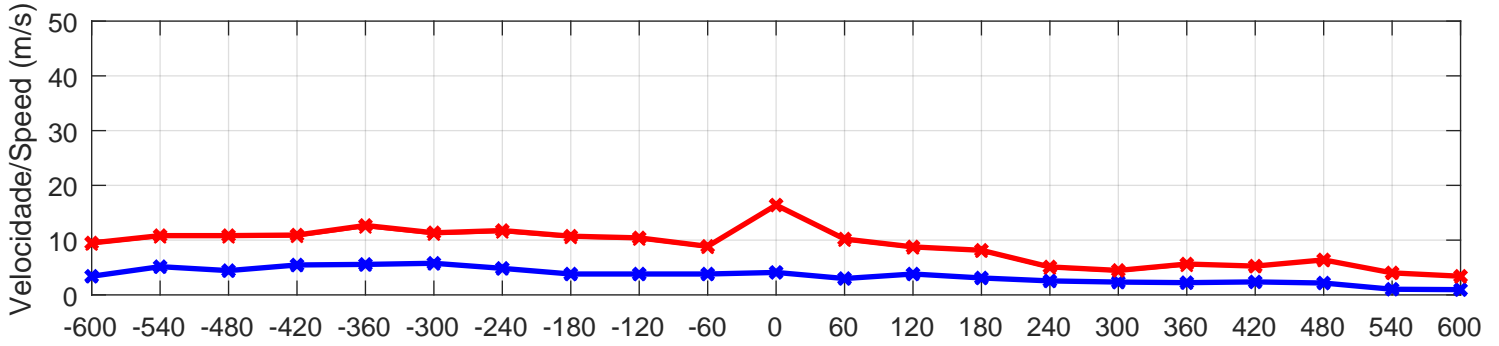
### A336/81846 EVENTO/EVENT 53 - 07/09/2010, 16:00 UTC (WRDS - DISME)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | Δ Temp. & Press.                                 | Δ Direção<br>Δ Direction         | Classificação<br>Classification |
|--------------------------------|-----------------------------------|--|----------------------------------|---------------------------------|
| $G_{obs} = 15.6 \text{ m/s}$   | $R_{G,-6} = 1.6$ $R_{V,-6} = 1.0$ | $T_{med,3} = 31.5 \text{ }^\circ\text{C}$        | $DIR = 113^\circ$                | SINÓTICO                        |
| $V_{obs} = 4.5 \text{ m/s}$    | $R_{G,-3} = 1.4$ $R_{V,-3} = 1.0$ | $\Delta T_{min,3} = -0.4 \text{ }^\circ\text{C}$ | $\Delta DIR_{max,-3} = 9^\circ$  | SYNOPTIC                        |
| $G_V = 3.5$                    | $R_{G,+3} = 1.5$ $R_{V,+3} = 1.1$ | $\Delta P_{max,3} = 0.1 \text{ hPa}$             | $\Delta DIR_{max,+3} = 44^\circ$ | (22)                            |
| $G_{cor} = 16.6 \text{ m/s}$   | $R_{G,+6} = 1.7$ $R_{V,+6} = 1.2$ | $\Delta \text{ Grupo/Group} = 3$                 |                                  |                                 |
| $V_{cor} = 4.8 \text{ m/s}$    |                                   |  |                                  |                                 |



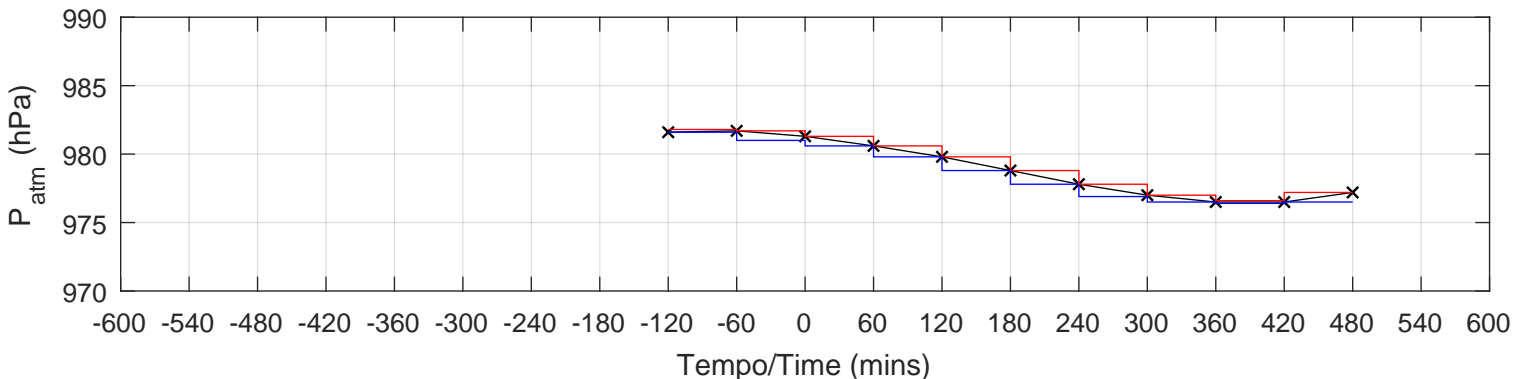
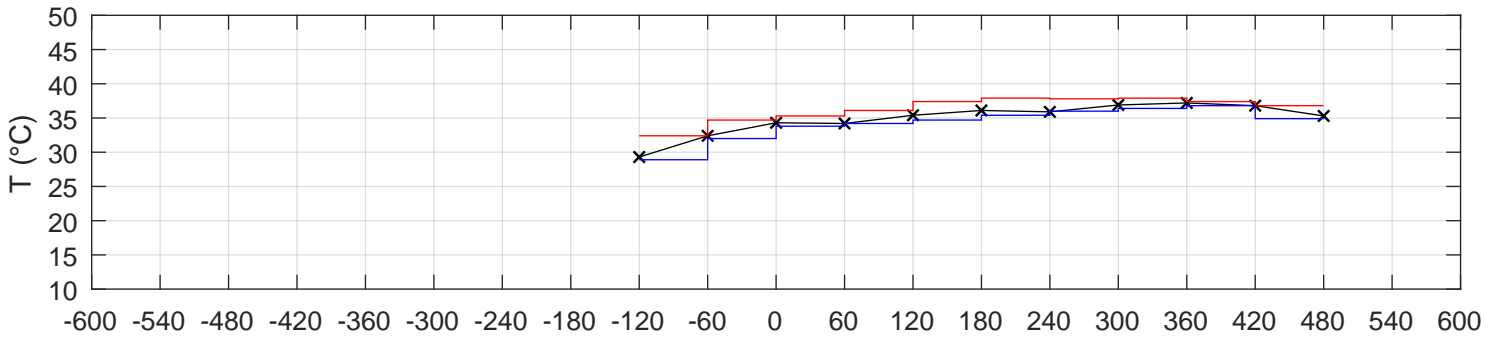
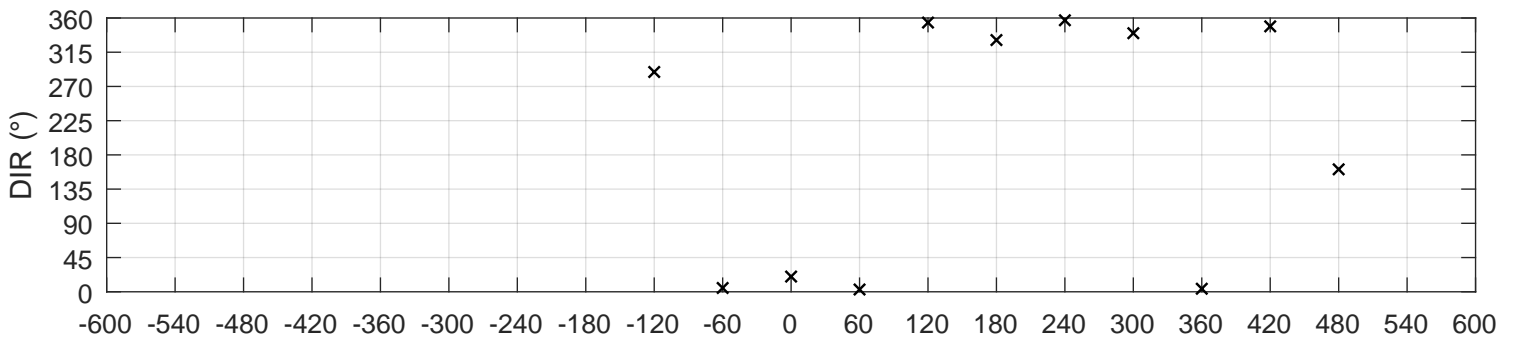
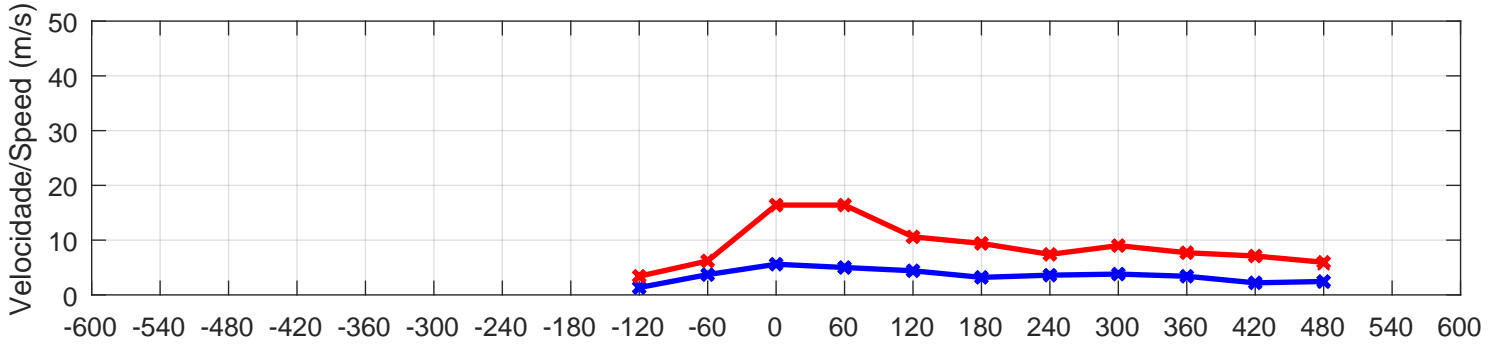
A336/81846 EVENTO/EVENT 54 - 26/09/2011, 18:00 UTC (WRDS - DISME)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                          | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|--|--|---------------------------------|
| $G_{obs} = 16.4 \text{ m/s}$   | $R_{G,-6} = 1.5$ $R_{V,-6} = 0.9$ | $T_{med,3} = 34.8 \text{ }^\circ\text{C}$        | $DIR = 53^\circ$                       | SINÓTICO                        |
| $V_{obs} = 4.1 \text{ m/s}$    | $R_{G,-3} = 1.7$ $R_{V,-3} = 1.1$ | $\Delta T_{min,3} = -0.2 \text{ }^\circ\text{C}$ | $\Delta DIR_{max,-3} = 51^\circ$       | SYNOPTIC                        |
| $G_V = 4.0$                    | $R_{G,+3} = 1.9$ $R_{V,+3} = 1.3$ | $\Delta P_{max,3} = 0.1 \text{ hPa}$             | $\Delta DIR_{max,+3} = 59^\circ$       | (22)                            |
| $G_{cor} = 16.4 \text{ m/s}$   | $R_{G,+6} = 2.4$ $R_{V,+6} = 1.5$ | $\Delta$ Grupo/Group = 3                         |  |                                 |
| $V_{cor} = 4.1 \text{ m/s}$    |                                   |  |  |                                 |



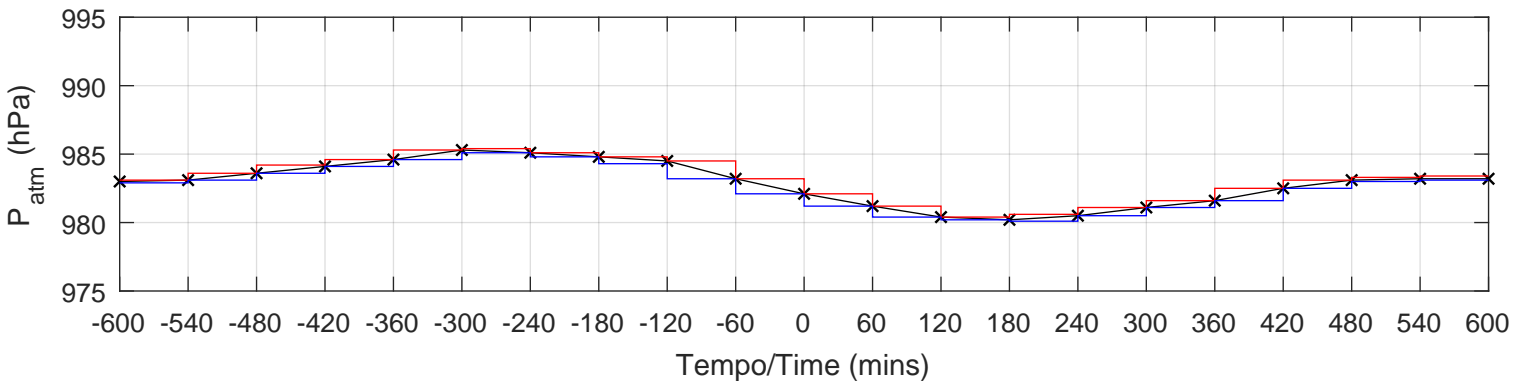
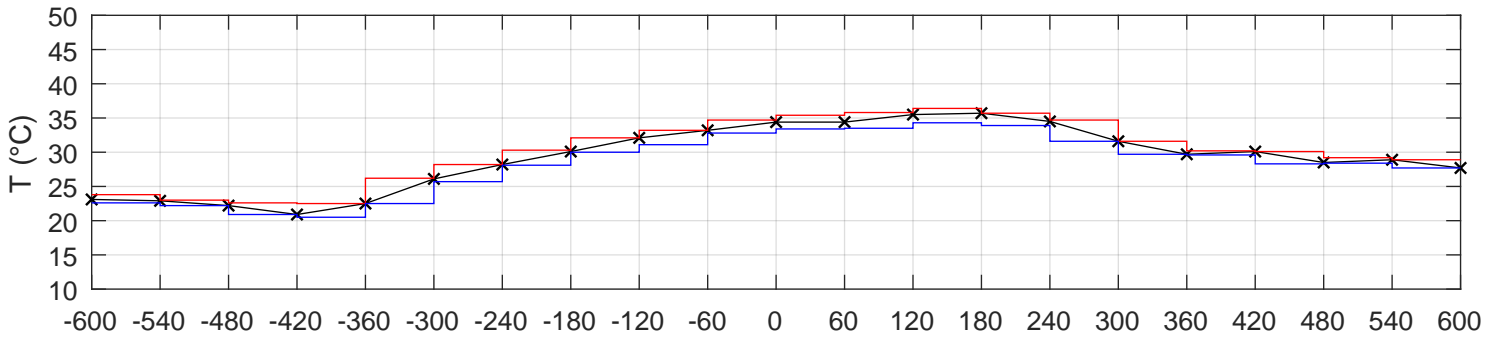
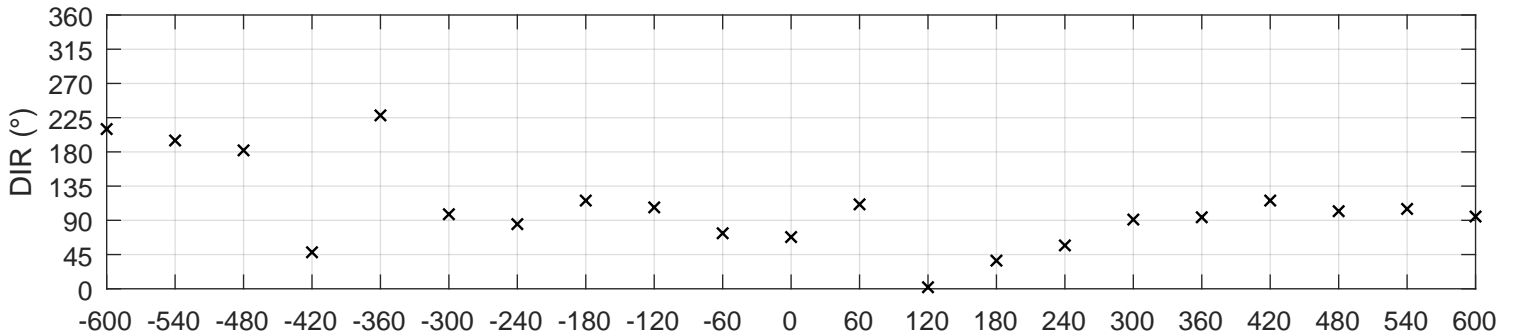
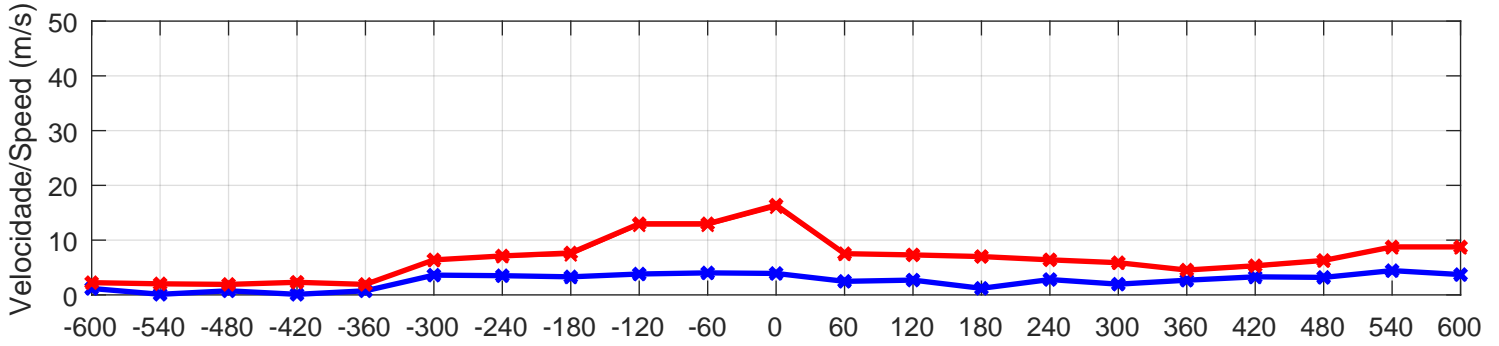
A336/81846 EVENTO/EVENT 55 - 24/11/2016, 13:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                          | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|--|--|---------------------------------|
| $G_{obs} = 16.4 \text{ m/s}$   | $R_{G,-6} = []$ $R_{V,-6} = []$   | $T_{med,3} = 30.9 \text{ }^\circ\text{C}$        | $DIR = 20^\circ$                       | SINÓTICO                        |
| $V_{obs} = 5.6 \text{ m/s}$    | $R_{G,-3} = 3.5$ $R_{V,-3} = 2.2$ | $\Delta T_{min,3} = -0.9 \text{ }^\circ\text{C}$ | $\Delta DIR_{max,-3} = 91^\circ$       | SYNOPTIC                        |
| $G_V = 2.9$                    | $R_{G,+3} = 1.4$ $R_{V,+3} = 1.3$ | $\Delta P_{max,3} = 0.9 \text{ hPa}$             | $\Delta DIR_{max,+3} = 49^\circ$       | (22)                            |
| $G_{cor} = 16.4 \text{ m/s}$   | $R_{G,+6} = 1.6$ $R_{V,+6} = 1.4$ | $\Delta$ Grupo/Group = 3                         |  |                                 |
| $V_{cor} = 5.6 \text{ m/s}$    |                                   |  |  |                                 |



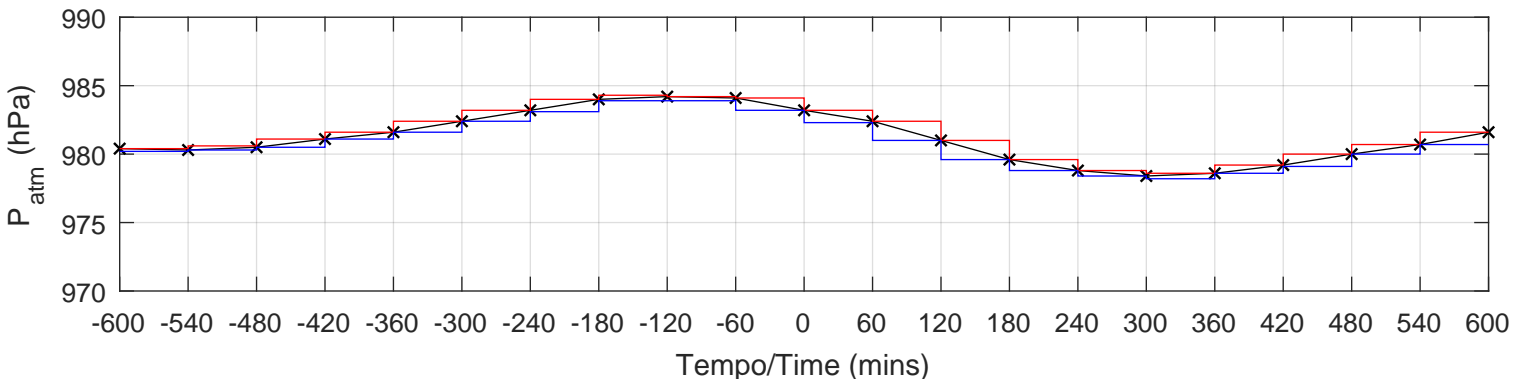
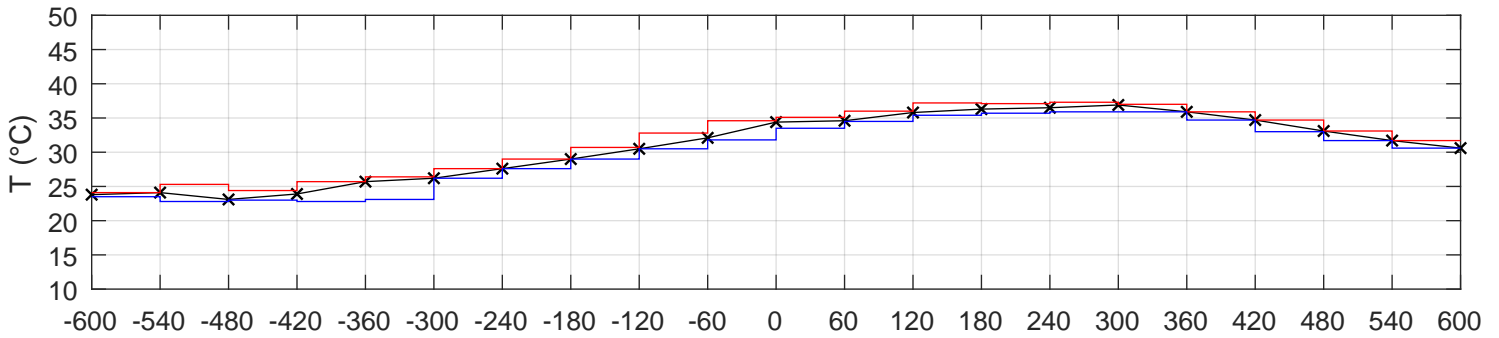
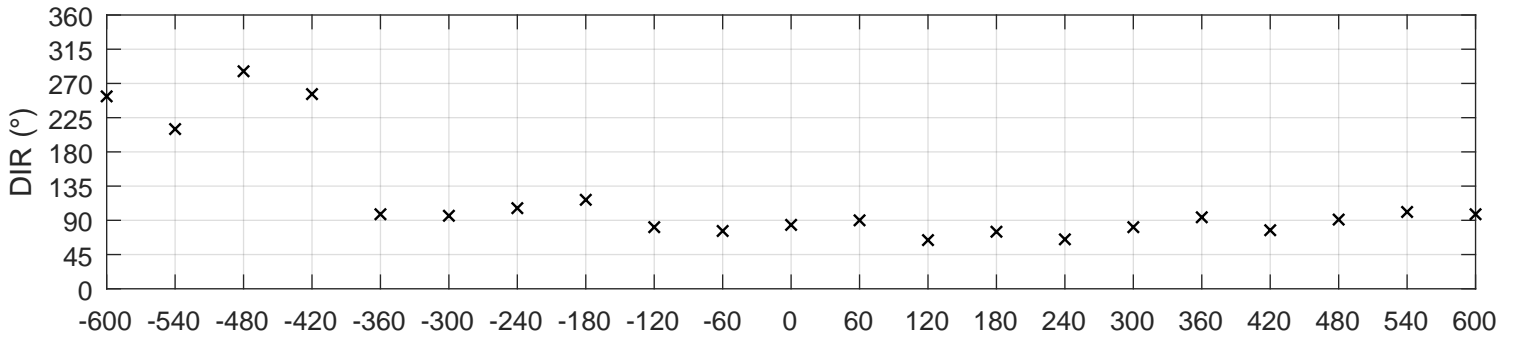
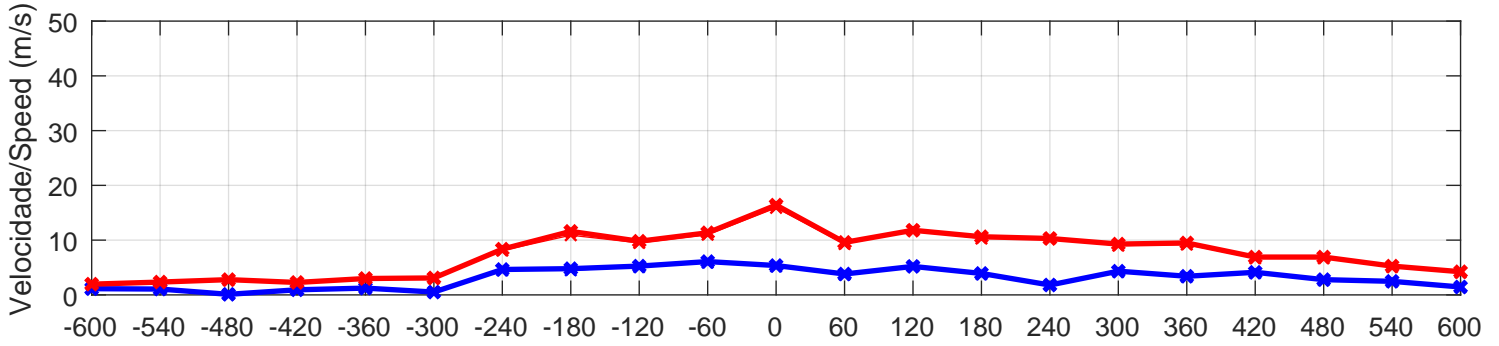
A336/81846 EVENTO/EVENT 56 - 23/05/2012, 16:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                          | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|--|--|---------------------------------|
| $G_{obs} = 15.9 \text{ m/s}$   | $R_{G,-6} = 2.0$ $R_{V,-6} = 1.6$ | $T_{med,3} = 31.8 \text{ }^\circ\text{C}$        | $DIR = 68^\circ$                       | SINÓTICO                        |
| $V_{obs} = 3.9 \text{ m/s}$    | $R_{G,-3} = 1.5$ $R_{V,-3} = 1.1$ | $\Delta T_{min,3} = -1.3 \text{ }^\circ\text{C}$ | $\Delta DIR_{max,-3} = 48^\circ$       | SYNOPTIC                        |
| $G_V = 4.1$                    | $R_{G,+3} = 2.2$ $R_{V,+3} = 1.3$ | $\Delta P_{max,3} = 0.2 \text{ hPa}$             | $\Delta DIR_{max,+3} = 66^\circ$       | (22)                            |
| $G_{cor} = 16.4 \text{ m/s}$   | $R_{G,+6} = 2.5$ $R_{V,+6} = 1.6$ | $\Delta$ Grupo/Group = 3                         |  |                                 |
| $V_{cor} = 4.0 \text{ m/s}$    |                                   |  |  |                                 |



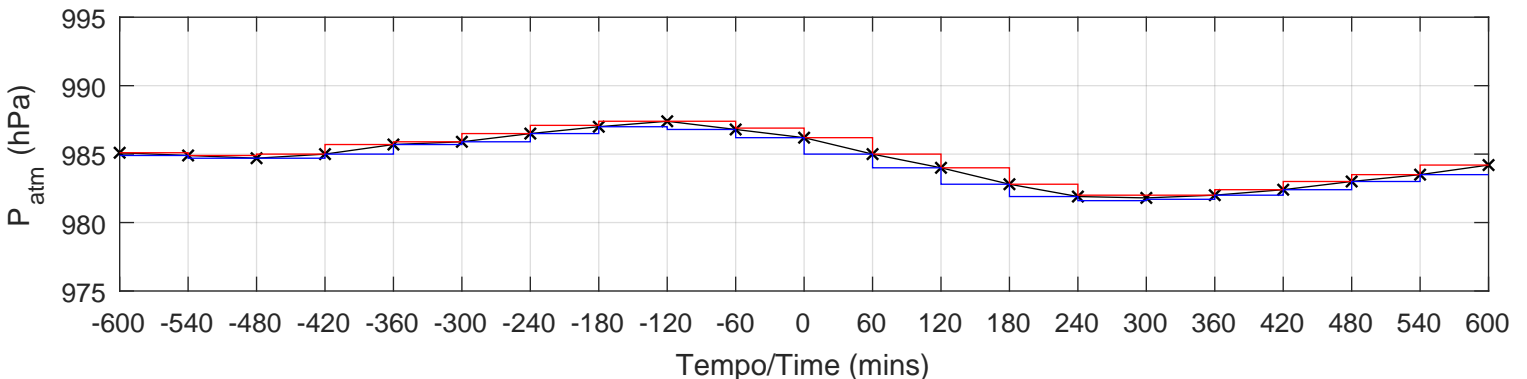
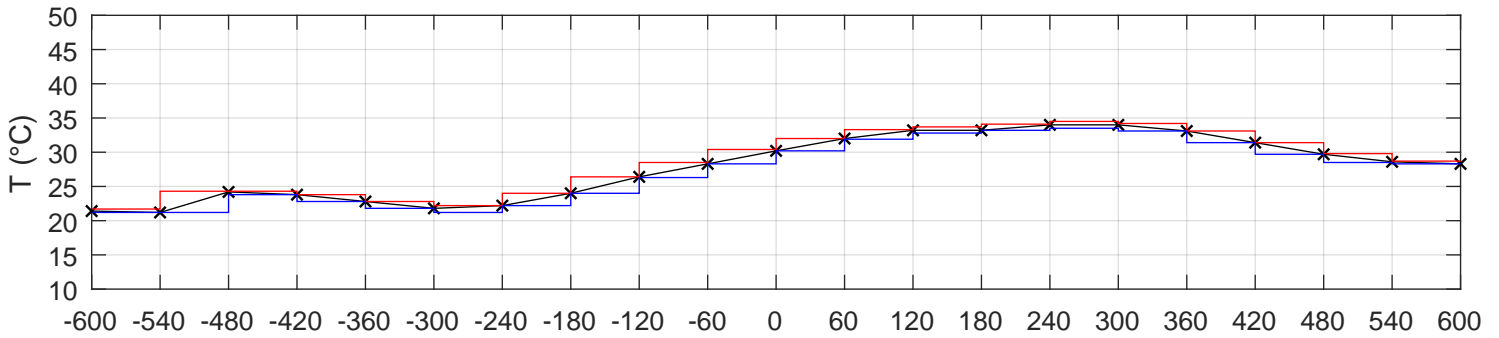
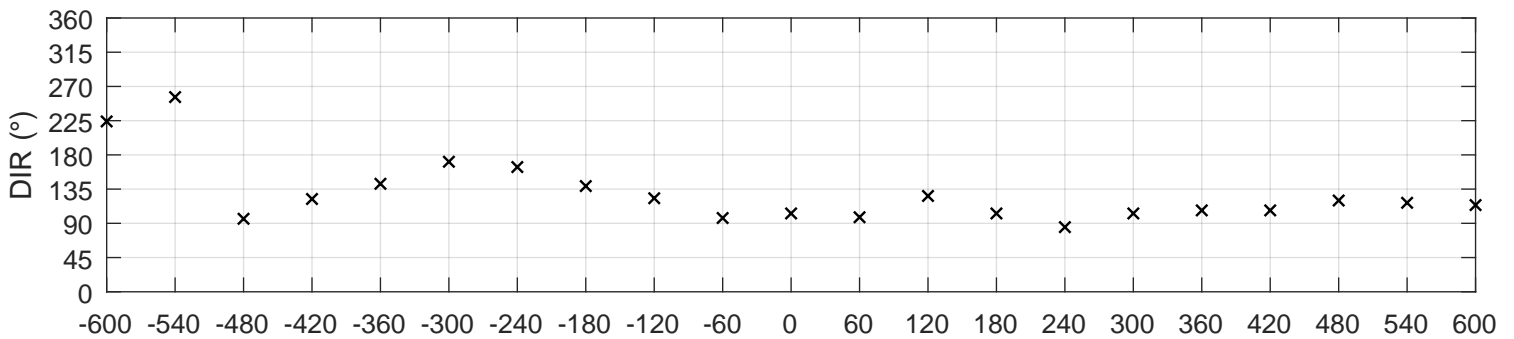
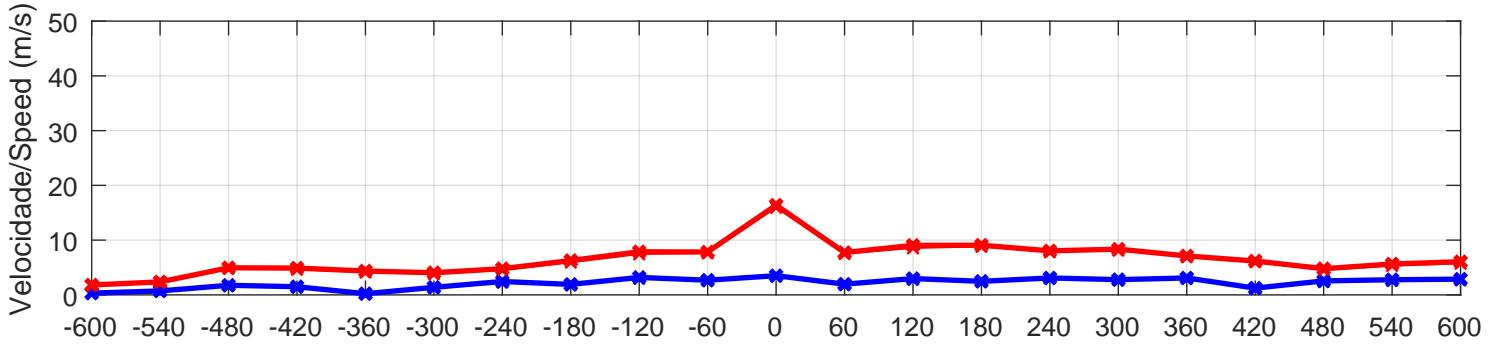
A336/81846 EVENTO/EVENT 57 - 03/11/2016, 14:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                          | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|--|--|---------------------------------|
| $G_{obs} = 15.9 \text{ m/s}$   | $R_{G,-6} = 2.1$ $R_{V,-6} = 2.1$ | $T_{med,3} = 30.5 \text{ }^\circ\text{C}$        | $DIR = 84^\circ$                       | SINÓTICO                        |
| $V_{obs} = 5.9 \text{ m/s}$    | $R_{G,-3} = 1.5$ $R_{V,-3} = 1.3$ | $\Delta T_{min,3} = -1.1 \text{ }^\circ\text{C}$ | $\Delta DIR_{max,-3} = 33^\circ$       | SYNOPTIC                        |
| $G_V = 2.7$                    | $R_{G,+3} = 1.5$ $R_{V,+3} = 1.3$ | $\Delta P_{max,3} = 0.3 \text{ hPa}$             | $\Delta DIR_{max,+3} = 20^\circ$       | (22)                            |
| $G_{cor} = 16.4 \text{ m/s}$   | $R_{G,+6} = 1.6$ $R_{V,+6} = 1.5$ | $\Delta$ Grupo/Group = 3                         |  |                                 |
| $V_{cor} = 6.1 \text{ m/s}$    |                                   |  |  |                                 |



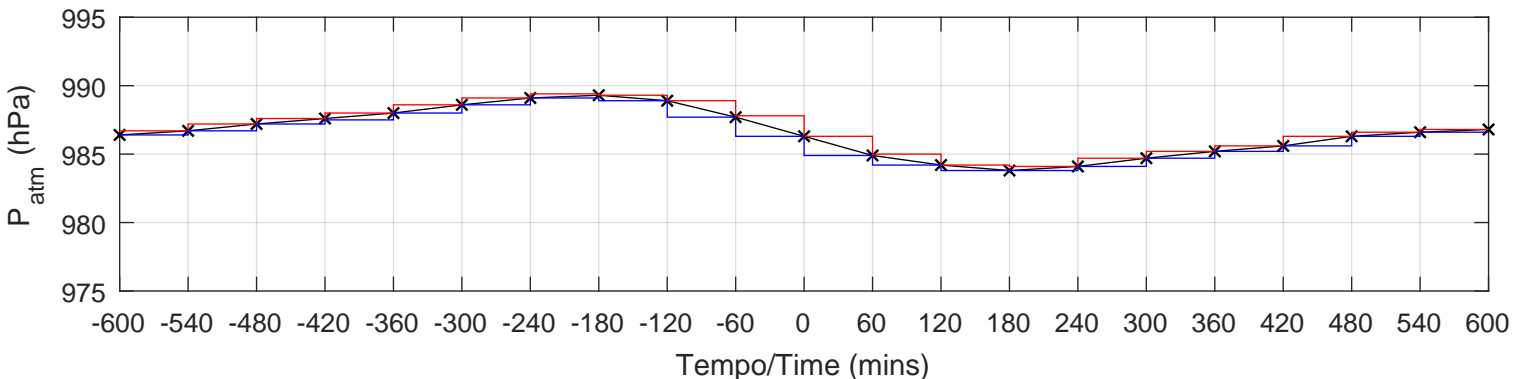
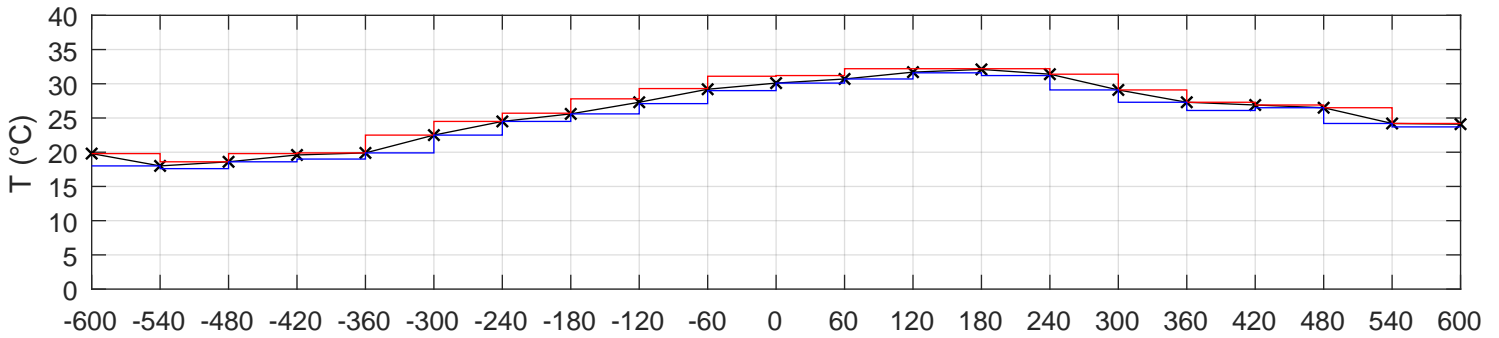
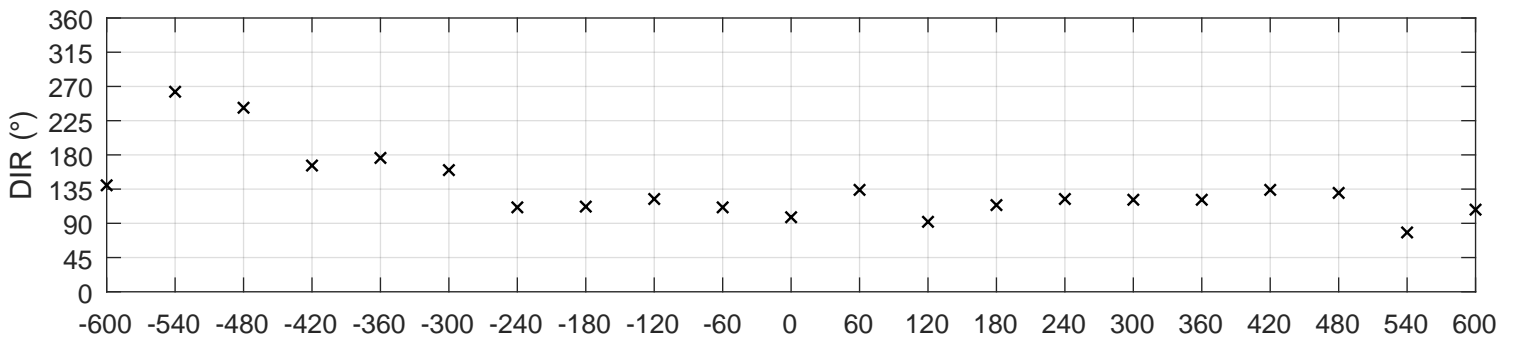
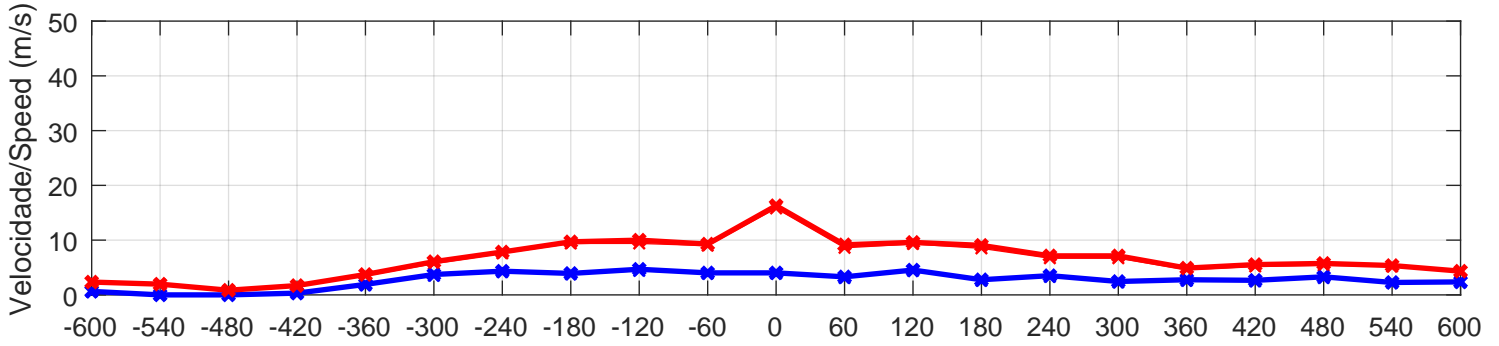
A336/81846 EVENTO/EVENT 59 - 18/07/2018, 14:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                          | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|--|--|---------------------------------|
| $G_{obs} = 15.9 \text{ m/s}$   | $R_{G,-6} = 2.9$ $R_{V,-6} = 1.8$ | $T_{med,3} = 26.2 \text{ }^\circ\text{C}$        | $DIR = 103^\circ$                      | SINÓTICO                        |
| $V_{obs} = 3.4 \text{ m/s}$    | $R_{G,-3} = 2.3$ $R_{V,-3} = 1.4$ | $\Delta T_{min,3} = -0.2 \text{ }^\circ\text{C}$ | $\Delta DIR_{max,-3} = 36^\circ$       | SYNOPTIC                        |
| $G_V = 4.7$                    | $R_{G,+3} = 1.9$ $R_{V,+3} = 1.4$ | $\Delta P_{max,3} = 0.4 \text{ hPa}$             | $\Delta DIR_{max,+3} = 23^\circ$       | (22)                            |
| $G_{cor} = 16.4 \text{ m/s}$   | $R_{G,+6} = 2.0$ $R_{V,+6} = 1.3$ | $\Delta$ Grupo/Group = 3                         |  |                                 |
| $V_{cor} = 3.5 \text{ m/s}$    |                                   |  |  |                                 |



A336/81846 EVENTO/EVENT 61 - 09/07/2017, 16:00 UTC (WRDS - WEB)

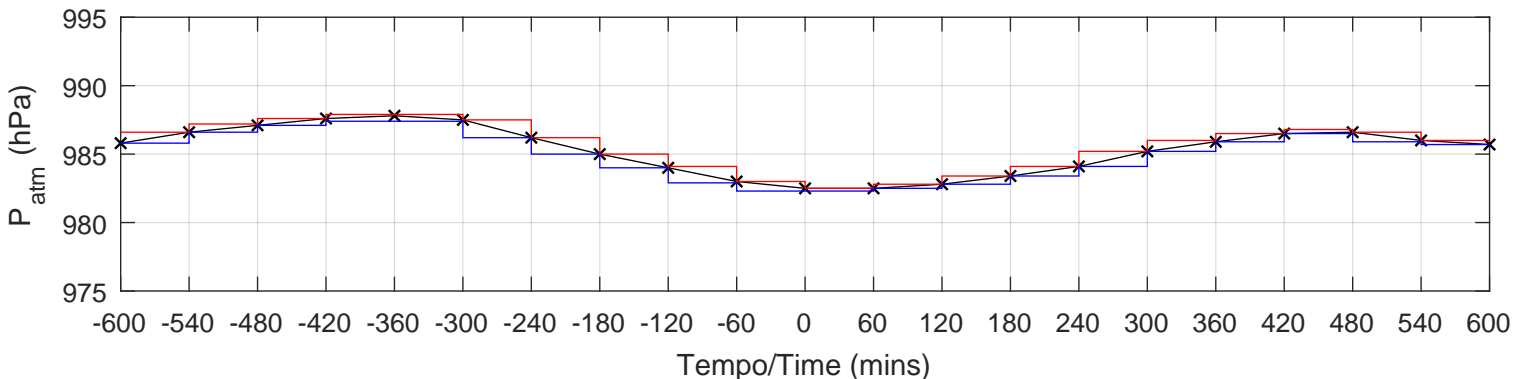
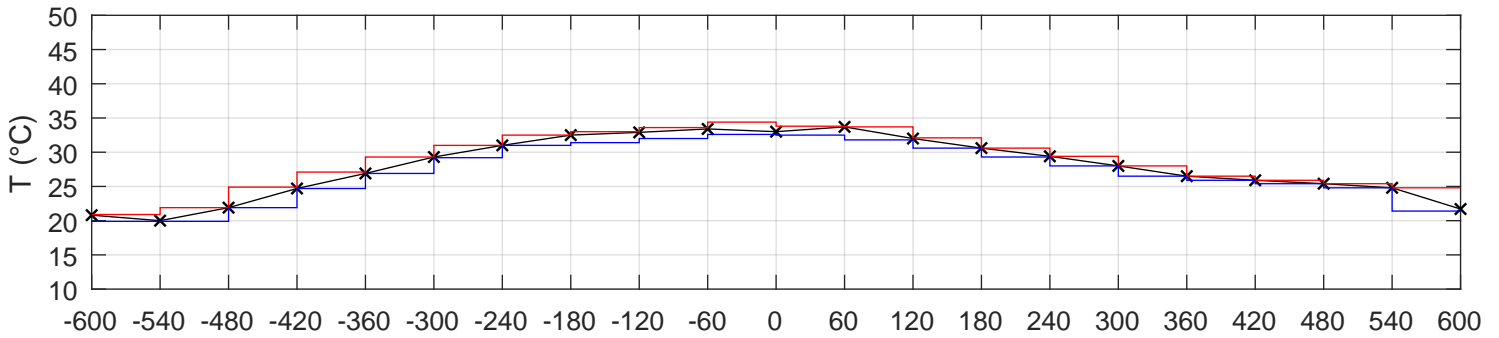
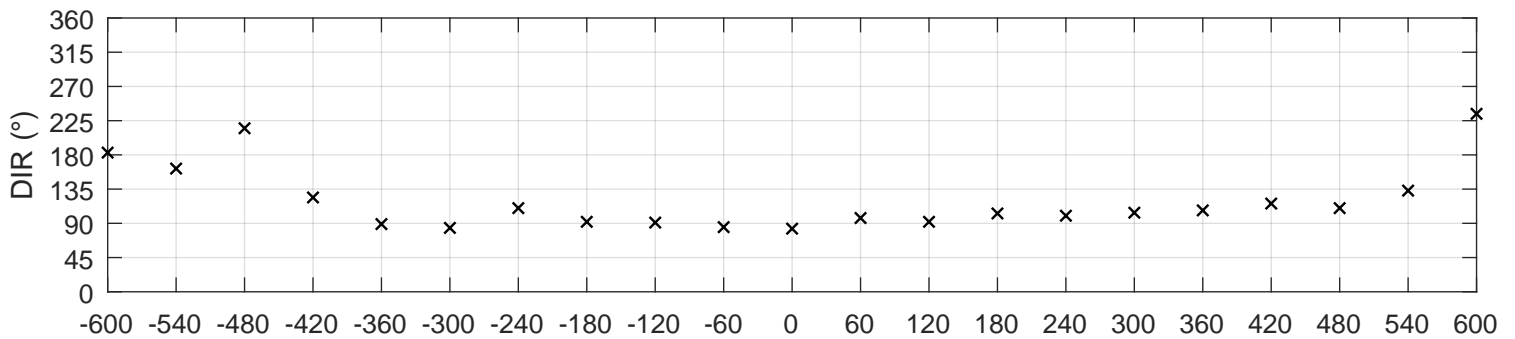
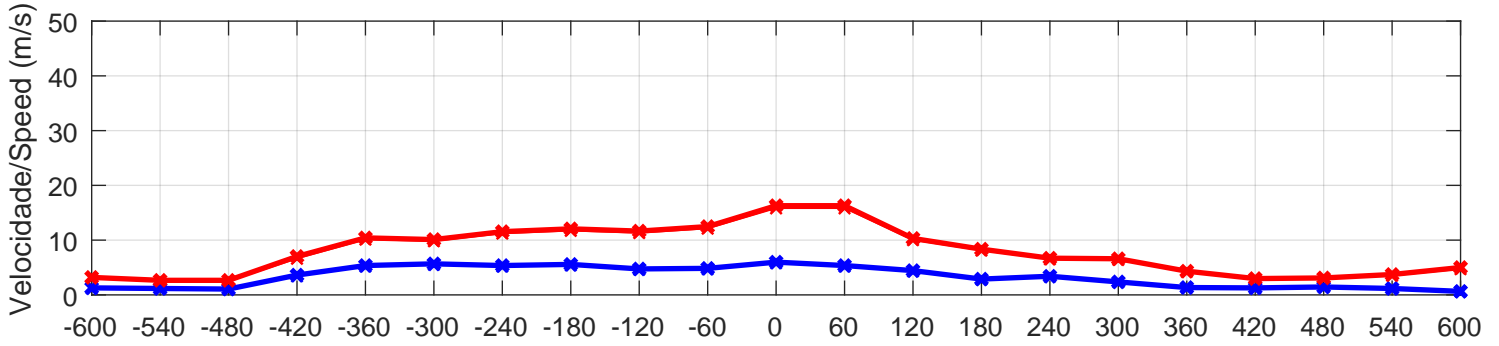
| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                          | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|--|--|---------------------------------|
| $G_{obs} = 15.8 \text{ m/s}$   | $R_{G,-6} = 2.1$ $R_{V,-6} = 1.3$ | $T_{med,3} = 27.4 \text{ }^\circ\text{C}$        | $DIR = 98^\circ$                       | SINÓTICO                        |
| $V_{obs} = 3.9 \text{ m/s}$    | $R_{G,-3} = 1.7$ $R_{V,-3} = 0.9$ | $\Delta T_{min,3} = -1.0 \text{ }^\circ\text{C}$ | $\Delta DIR_{max,-3} = 24^\circ$       | SYNOPTIC                        |
| $G_V = 4.1$                    | $R_{G,+3} = 1.8$ $R_{V,+3} = 1.0$ | $\Delta P_{max,3} = 0.1 \text{ hPa}$             | $\Delta DIR_{max,+3} = 36^\circ$       | (22)                            |
| $G_{cor} = 16.3 \text{ m/s}$   | $R_{G,+6} = 2.1$ $R_{V,+6} = 1.2$ | $\Delta$ Grupo/Group = 3                         |  |                                 |
| $V_{cor} = 4.0 \text{ m/s}$    |                                   |  |  |                                 |





A336/81846 EVENTO/EVENT 62 - 05/09/2017, 18:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                          | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|--|--|---------------------------------|
| $G_{obs} = 15.8 \text{ m/s}$   | $R_{G,-6} = 1.4$ $R_{V,-6} = 1.1$ | $T_{med,3} = 32.9 \text{ }^\circ\text{C}$        | $DIR = 83^\circ$                       | SINÓTICO                        |
| $V_{obs} = 5.8 \text{ m/s}$    | $R_{G,-3} = 1.4$ $R_{V,-3} = 1.2$ | $\Delta T_{min,3} = -1.9 \text{ }^\circ\text{C}$ | $\Delta DIR_{max,-3} = 9^\circ$        | SYNOPTIC                        |
| $G_V = 2.7$                    | $R_{G,+3} = 1.4$ $R_{V,+3} = 1.4$ | $\Delta P_{max,3} = 0.2 \text{ hPa}$             | $\Delta DIR_{max,+3} = 20^\circ$       | (22)                            |
| $G_{cor} = 16.3 \text{ m/s}$   | $R_{G,+6} = 1.9$ $R_{V,+6} = 1.8$ | $\Delta$ Grupo/Group = 3                         |  |                                 |
| $V_{cor} = 6.0 \text{ m/s}$    |                                   |  |  |                                 |



A336/81846 EVENTO/EVENT 63 - 08/12/2007, 16:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                          | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|--|--|---------------------------------|
| $G_{obs} = 16.2 \text{ m/s}$   | $R_{G,-6} = 3.3$ $R_{V,-6} = 2.1$ | $T_{med,3} = 27.4 \text{ }^\circ\text{C}$        | $DIR = 6^\circ$                        | NÃO-SINÓTICO                    |
| $V_{obs} = 5.1 \text{ m/s}$    | $R_{G,-3} = 2.5$ $R_{V,-3} = 1.7$ | $\Delta T_{min,3} = -6.8 \text{ }^\circ\text{C}$ | $\Delta DIR_{max,-3} = 28^\circ$       | NON-SYNOPTIC                    |
| $G_V = 3.2$                    | $R_{G,+3} = 2.5$ $R_{V,+3} = 2.5$ | $\Delta P_{max,3} = 1.2 \text{ hPa}$             | $\Delta DIR_{max,+3} = 169^\circ$      | (11)                            |
| $G_{cor} = 16.2 \text{ m/s}$   | $R_{G,+6} = 2.8$ $R_{V,+6} = 2.4$ | $\Delta$ Grupo/Group = 2                         |  |                                 |
| $V_{cor} = 5.1 \text{ m/s}$    |                                   |  |  |                                 |

