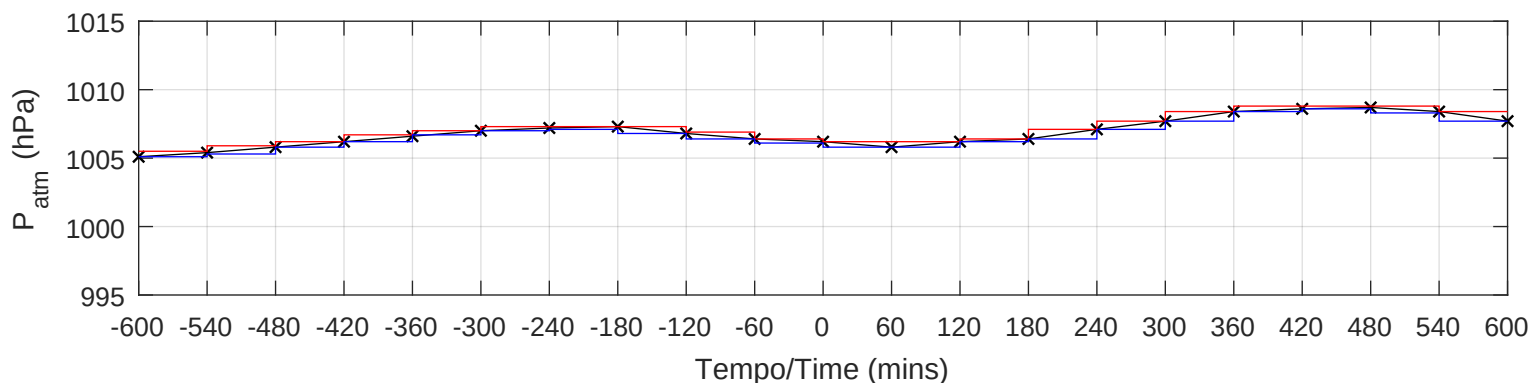
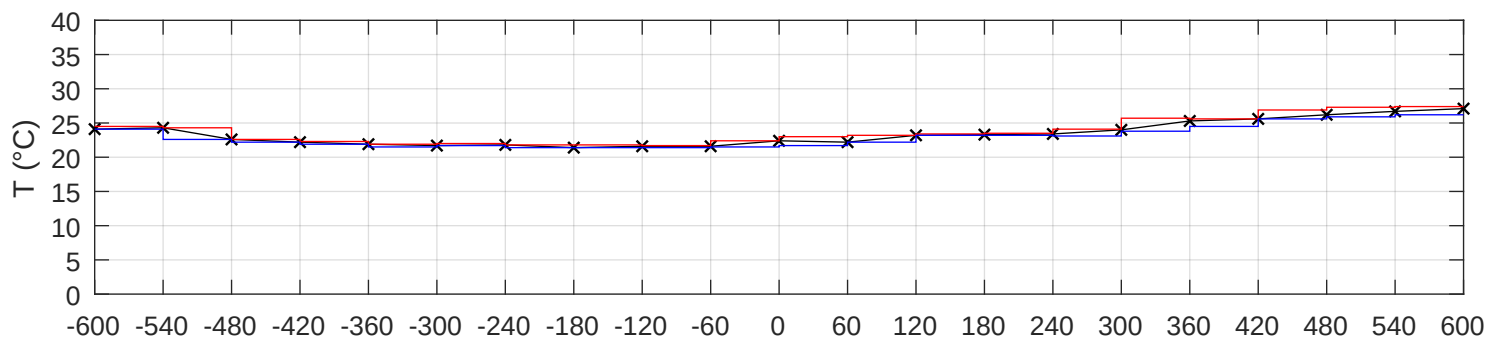
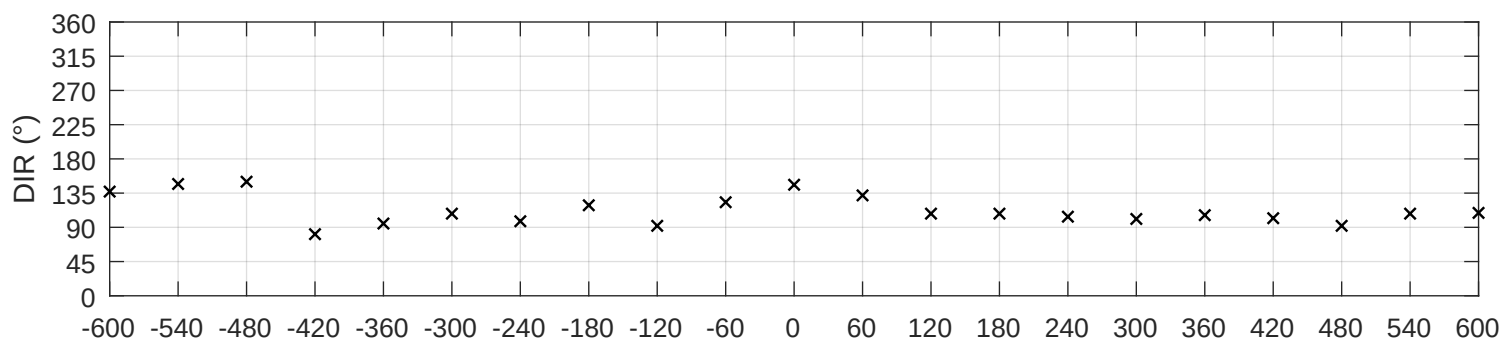
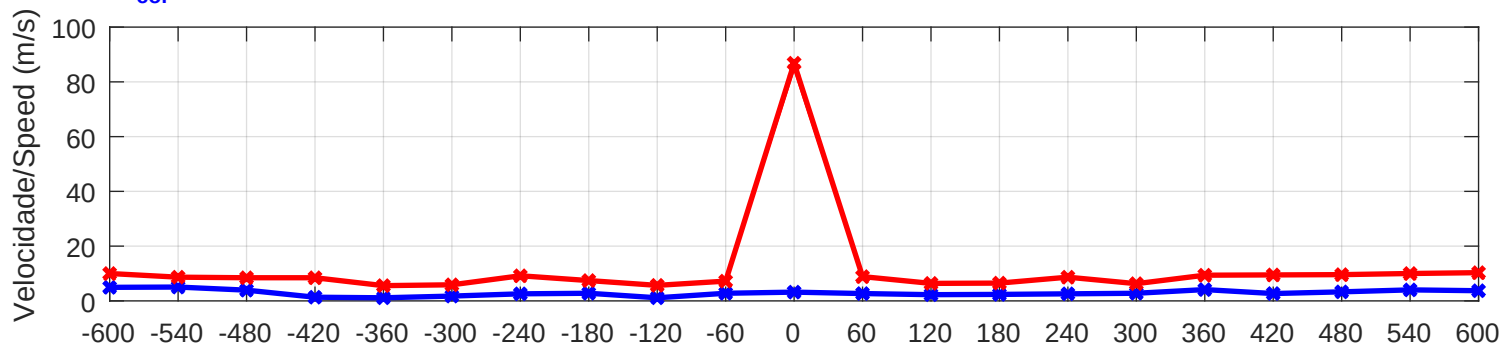


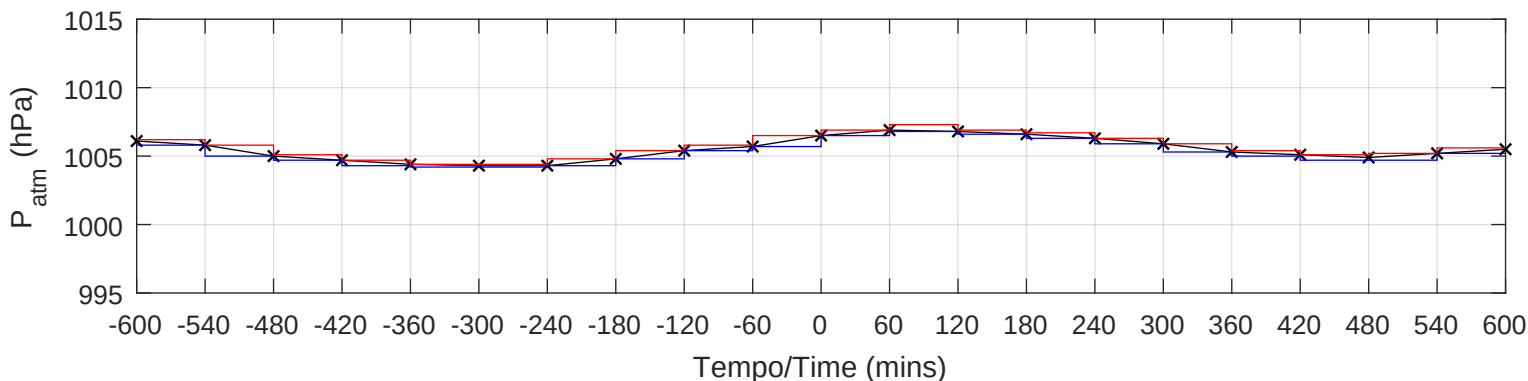
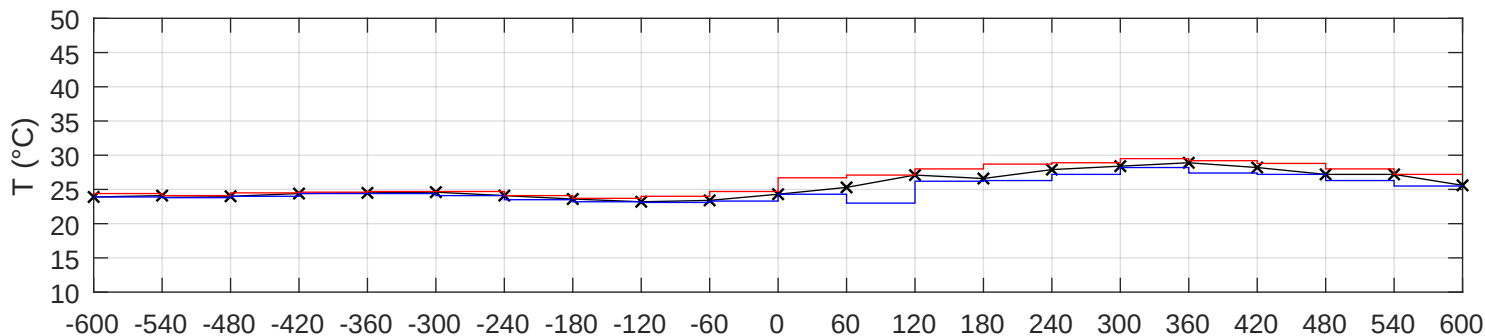
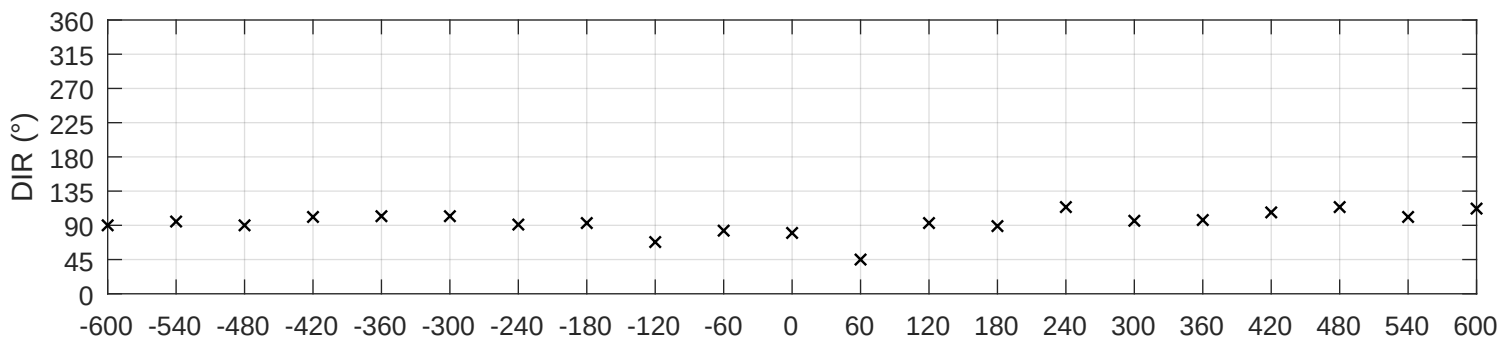
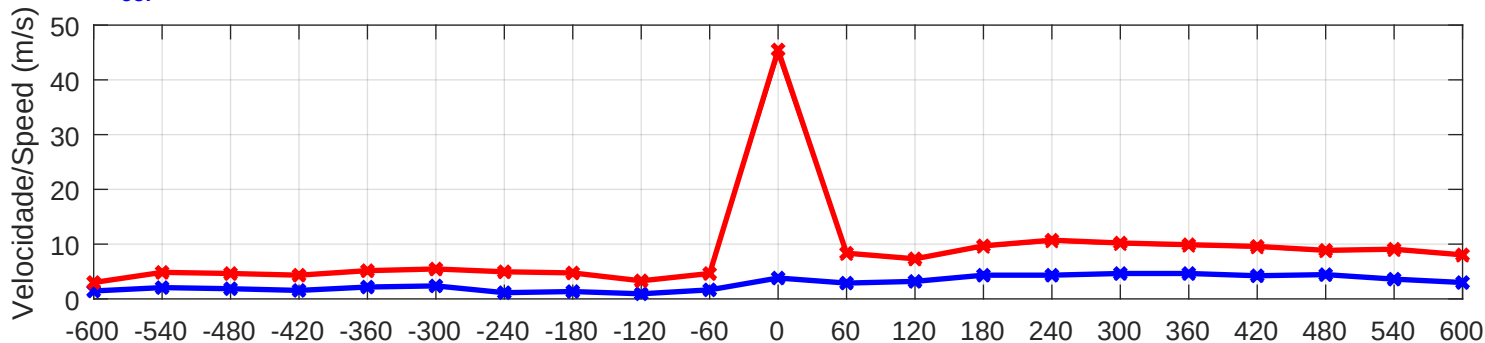
# A355/86619 EVENTO/EVENT 1 - 16/08/2009, 05:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios      | $\Delta$ Temp. & Press.                            | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|------------------------------------|----------------------------------------------------|----------------------------------------|---------------------------------|
| $G_{obs} = 84.2 \text{ m/s}$   | $R_{G,-6} = 12.7$ $R_{V,-6} = 1.6$ | $T_{med,3} = 21.5 \text{ }^{\circ}\text{C}$        | $DIR = 146^{\circ}$                    | SUSPEITO                        |
| $V_{obs} = 3.1 \text{ m/s}$    | $R_{G,-3} = 12.8$ $R_{V,-3} = 1.4$ | $\Delta T_{min,3} = -0.7 \text{ }^{\circ}\text{C}$ | $\Delta DIR_{max,-3} = 54^{\circ}$     | SUSPECT                         |
| $G_V = 27.2$                   | $R_{G,+3} = 12.0$ $R_{V,+3} = 1.3$ | $\Delta P_{max,3} = 0.1 \text{ hPa}$               | $\Delta DIR_{max,+3} = 38^{\circ}$     | (32)                            |
| $G_{cor} = 86.8 \text{ m/s}$   | $R_{G,+6} = 11.3$ $R_{V,+6} = 1.1$ | $\Delta$ Grupo/Group = 3                           |                                        |                                 |
| $V_{cor} = 3.2 \text{ m/s}$    |                                    |                                                    |                                        |                                 |



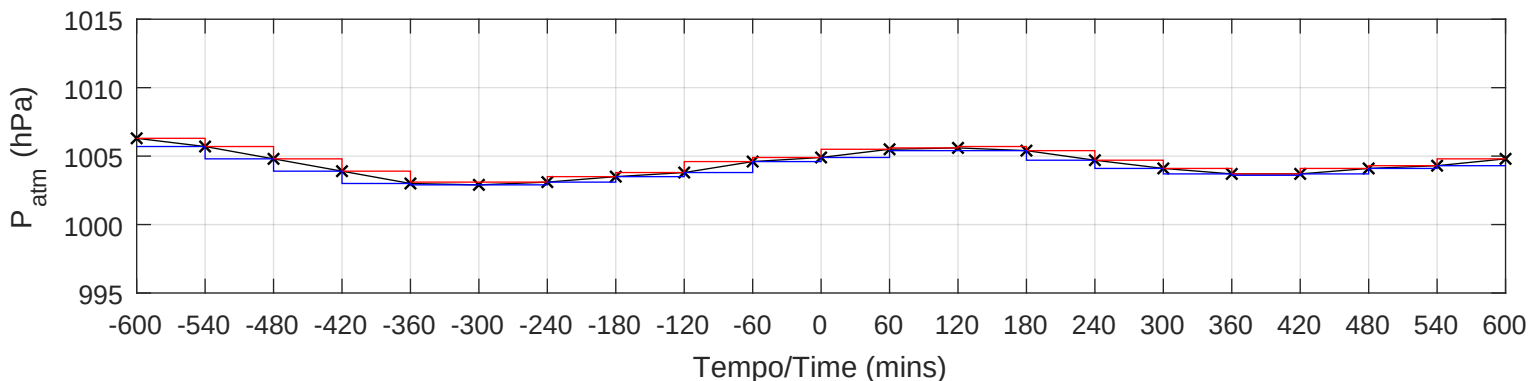
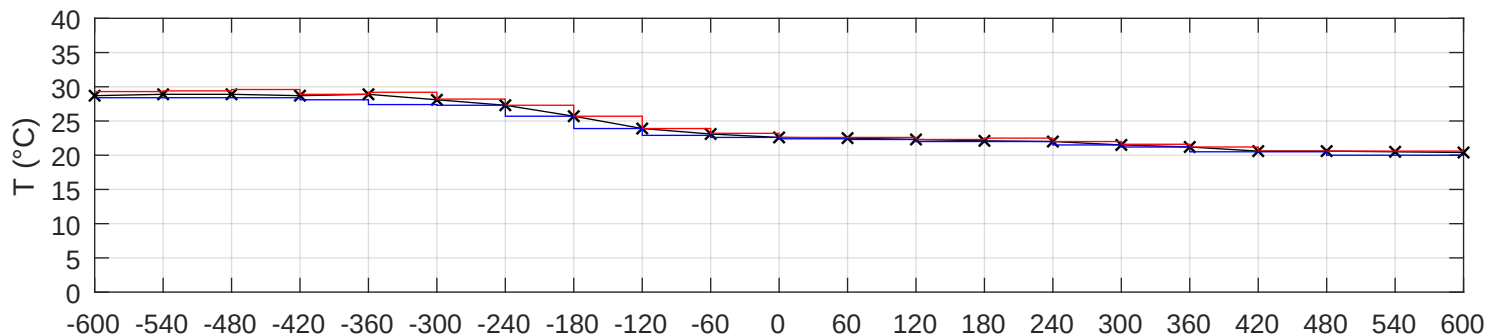
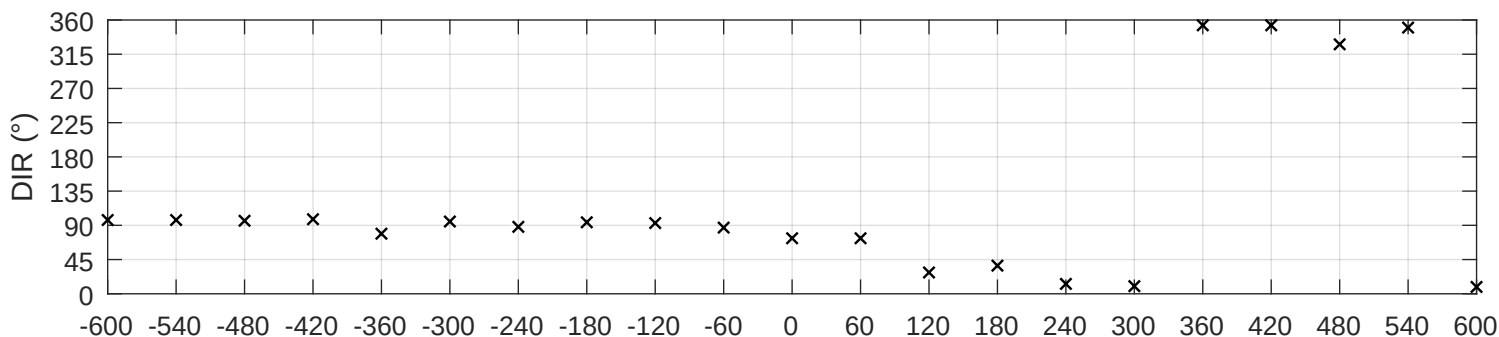
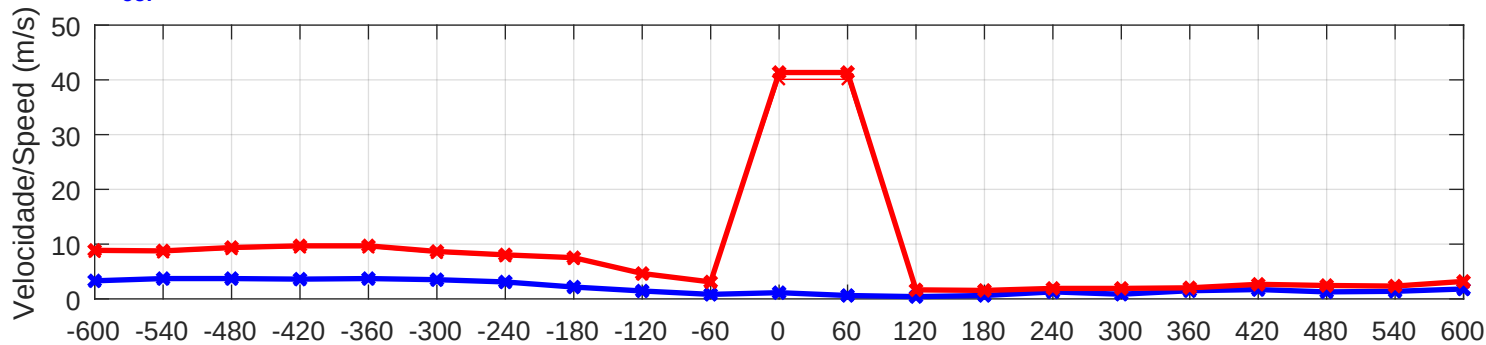
# A355/86619 EVENTO/EVENT 2 - 31/10/2014, 10:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios      | $\Delta$ Temp. & Press.                            | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|------------------------------------|----------------------------------------------------|----------------------------------------|---------------------------------|
| $G_{obs} = 44.1 \text{ m/s}$   | $R_{G,-6} = 9.7$ $R_{V,-6} = 2.4$  | $T_{med,3} = 23.4 \text{ }^{\circ}\text{C}$        | $DIR = 80^{\circ}$                     | SUSPEITO                        |
| $V_{obs} = 3.7 \text{ m/s}$    | $R_{G,-3} = 10.8$ $R_{V,-3} = 2.9$ | $\Delta T_{min,3} = -0.7 \text{ }^{\circ}\text{C}$ | $\Delta DIR_{max,-3} = 13^{\circ}$     | SUSPECT                         |
| $G_V = 11.9$                   | $R_{G,+3} = 5.4$ $R_{V,+3} = 1.1$  | $\Delta P_{max,3} = 1.2 \text{ hPa}$               | $\Delta DIR_{max,+3} = 35^{\circ}$     | (32)                            |
| $G_{cor} = 45.5 \text{ m/s}$   | $R_{G,+6} = 4.9$ $R_{V,+6} = 1.0$  | $\Delta$ Grupo/Group = 3                           |                                        |                                 |
| $V_{cor} = 3.8 \text{ m/s}$    |                                    |                                                    |                                        |                                 |



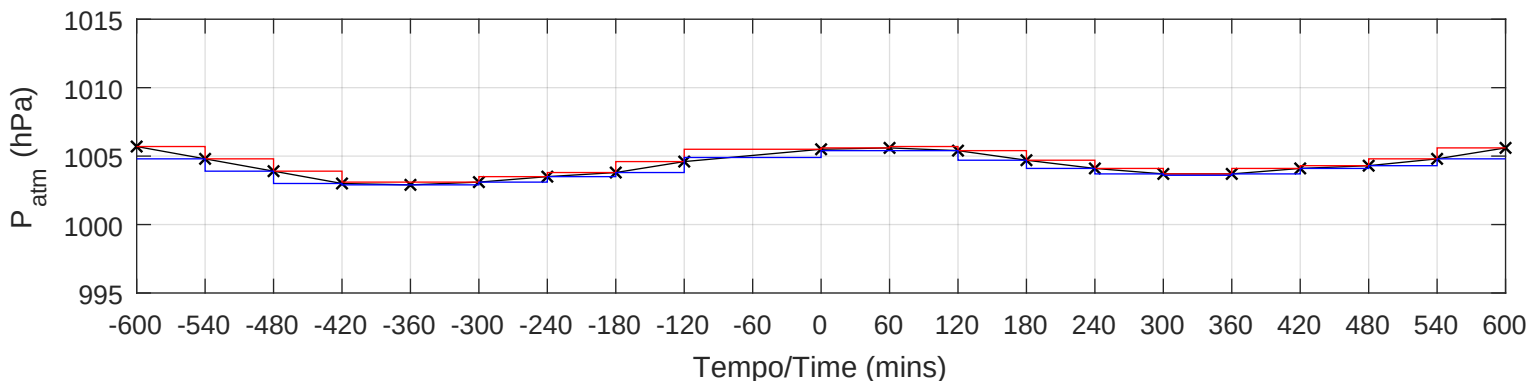
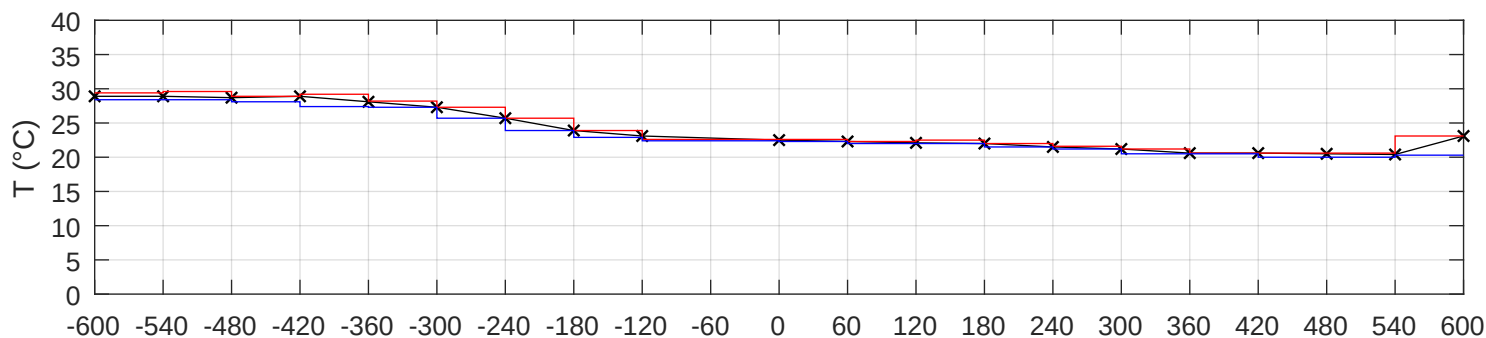
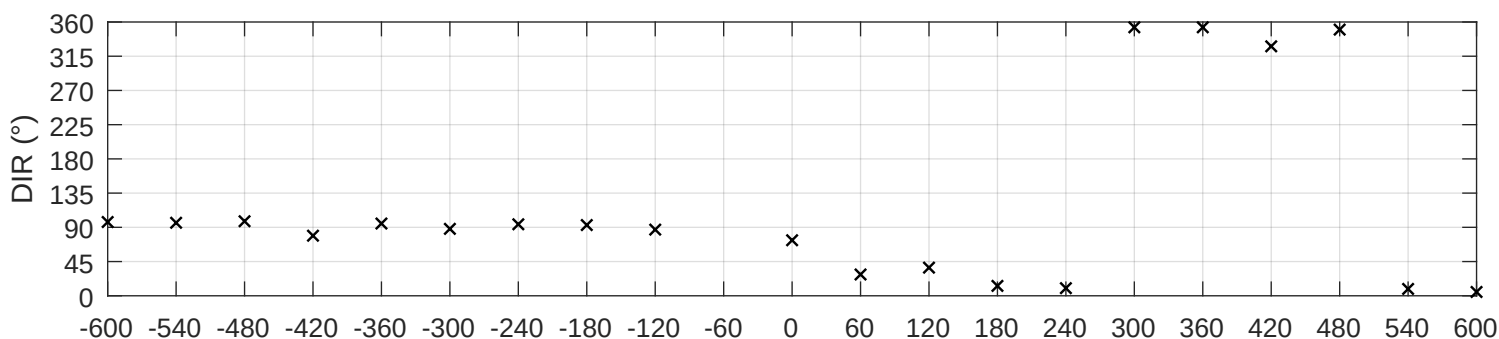
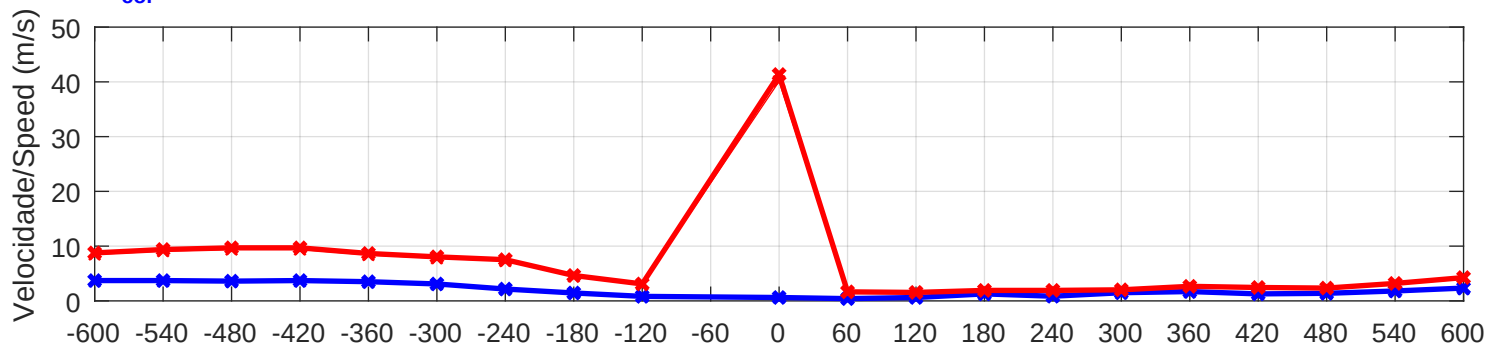
# A355/86619 EVENTO/EVENT 3 - 23/09/2009, 23:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                            | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|----------------------------------------------------|----------------------------------------|---------------------------------|
| $G_{obs} = 40.1 \text{ m/s}$   | $R_{G,-6} = 6.0$ $R_{V,-6} = 0.5$ | $T_{med,3} = 24.2 \text{ }^{\circ}\text{C}$        | $DIR = 73^{\circ}$                     | SUSPEITO                        |
| $V_{obs} = 1.1 \text{ m/s}$    | $R_{G,-3} = 8.1$ $R_{V,-3} = 0.8$ | $\Delta T_{min,3} = -2.8 \text{ }^{\circ}\text{C}$ | $\Delta DIR_{max,-3} = 21^{\circ}$     | SUSPECT                         |
| $G_V = 36.5$                   | $R_{G,+3} = 2.8$ $R_{V,+3} = 2.1$ | $\Delta P_{max,3} = 1.1 \text{ hPa}$               | $\Delta DIR_{max,+3} = 45^{\circ}$     | (32)                            |
| $G_{cor} = 41.3 \text{ m/s}$   | $R_{G,+6} = 4.9$ $R_{V,+6} = 1.3$ | $\Delta$ Grupo/Group = 3                           |                                        |                                 |
| $V_{cor} = 1.1 \text{ m/s}$    |                                   |                                                    |                                        |                                 |



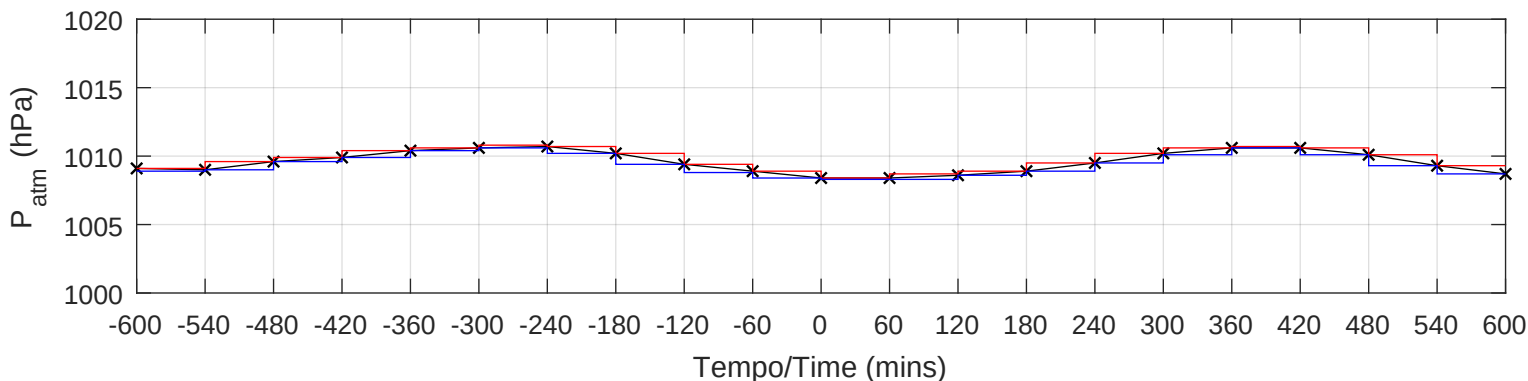
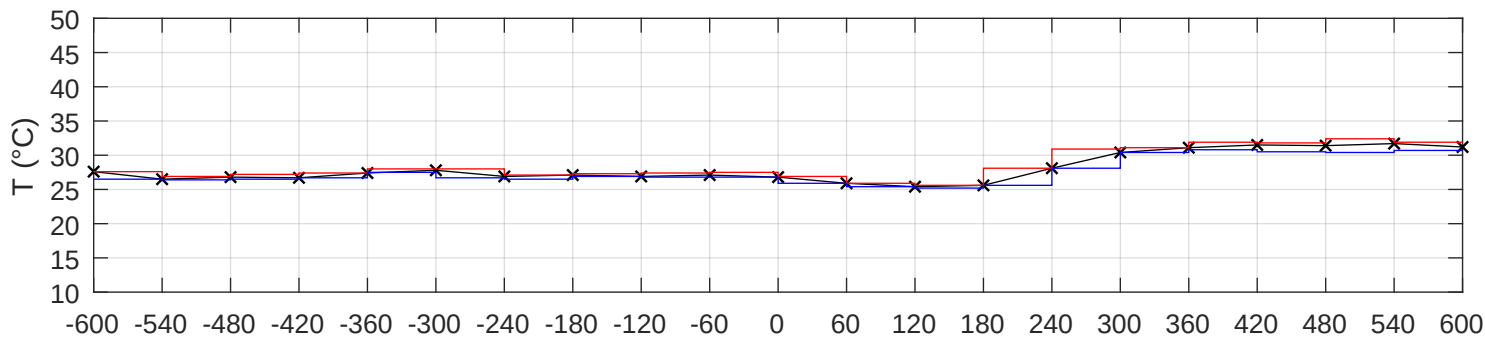
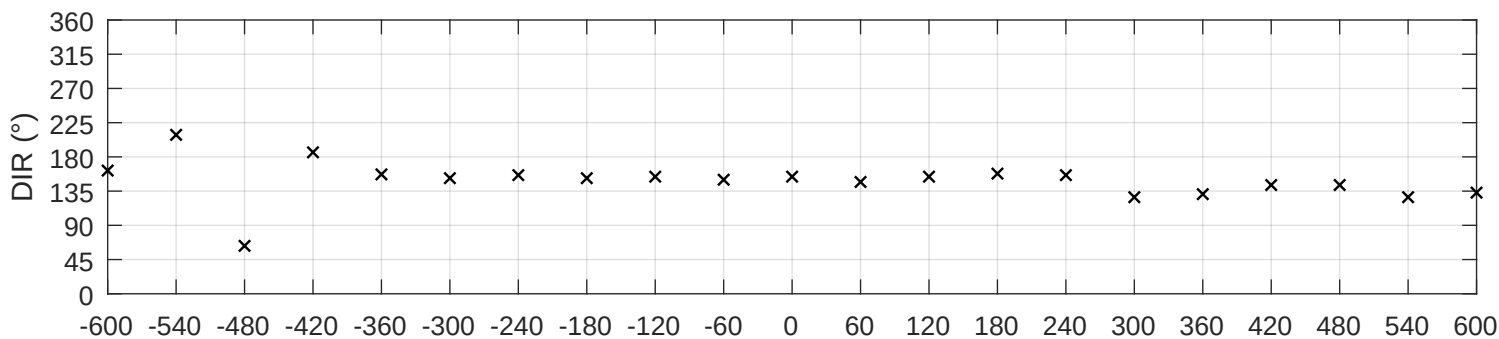
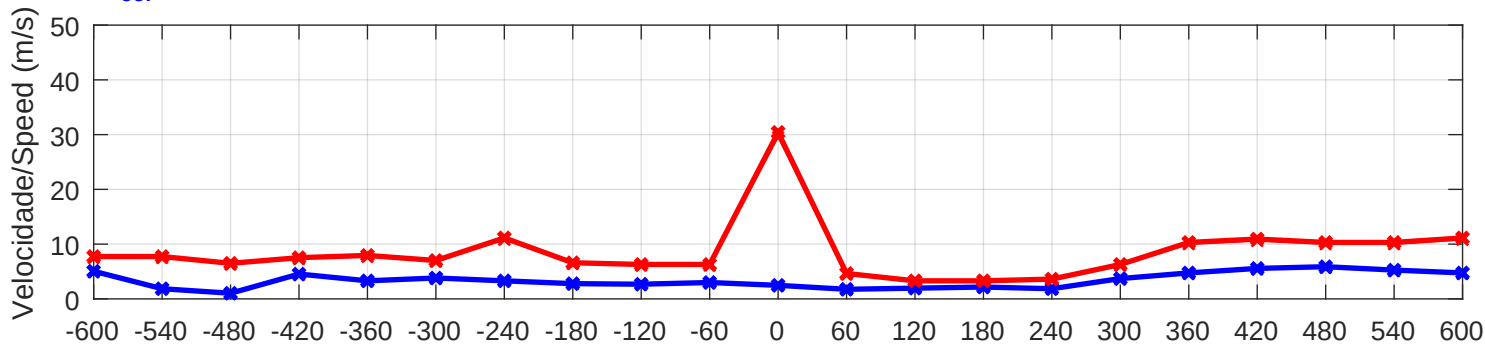
# A355/86619 EVENTO/EVENT 4 - 24/09/2009, 00:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios      | $\Delta$ Temp. & Press.                            | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|------------------------------------|----------------------------------------------------|----------------------------------------|---------------------------------|
| $G_{obs} = 40.1 \text{ m/s}$   | $R_{G,-6} = 6.5$ $R_{V,-6} = 0.3$  | $T_{med,3} = 23.5 \text{ }^{\circ}\text{C}$        | $DIR = 73^{\circ}$                     | SUSPEITO                        |
| $V_{obs} = 0.6 \text{ m/s}$    | $R_{G,-3} = 10.7$ $R_{V,-3} = 0.5$ | $\Delta T_{min,3} = -0.8 \text{ }^{\circ}\text{C}$ | $\Delta DIR_{max,-3} = 20^{\circ}$     | SUSPECT                         |
| $G_V = 66.8$                   | $R_{G,+3} = 24.6$ $R_{V,+3} = 0.8$ | $\Delta P_{max,3} = 0.9 \text{ hPa}$               | $\Delta DIR_{max,+3} = 60^{\circ}$     | (32)                            |
| $G_{cor} = 41.3 \text{ m/s}$   | $R_{G,+6} = 21.7$ $R_{V,+6} = 0.6$ | $\Delta$ Grupo/Group = 3                           |                                        |                                 |
| $V_{cor} = 0.6 \text{ m/s}$    |                                    |                                                    |                                        |                                 |



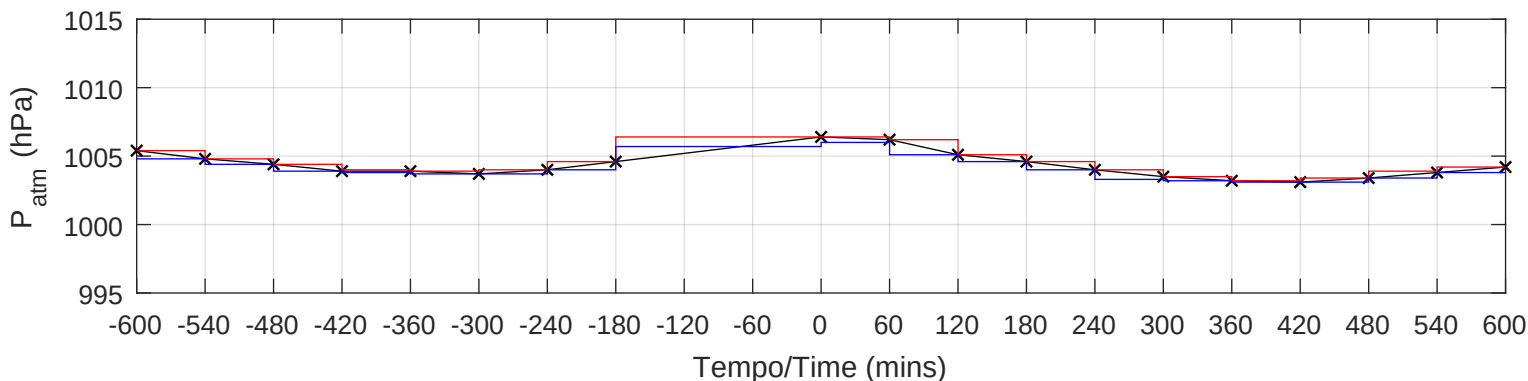
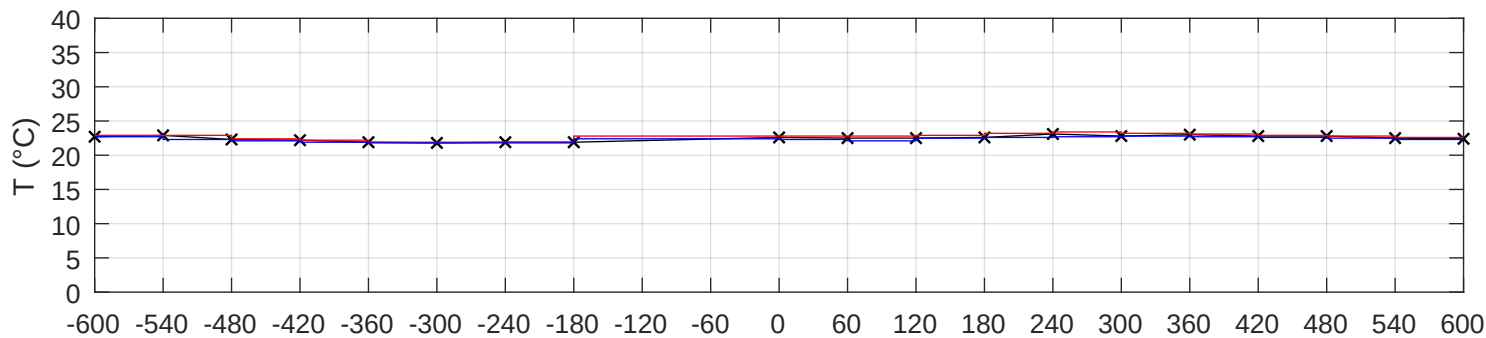
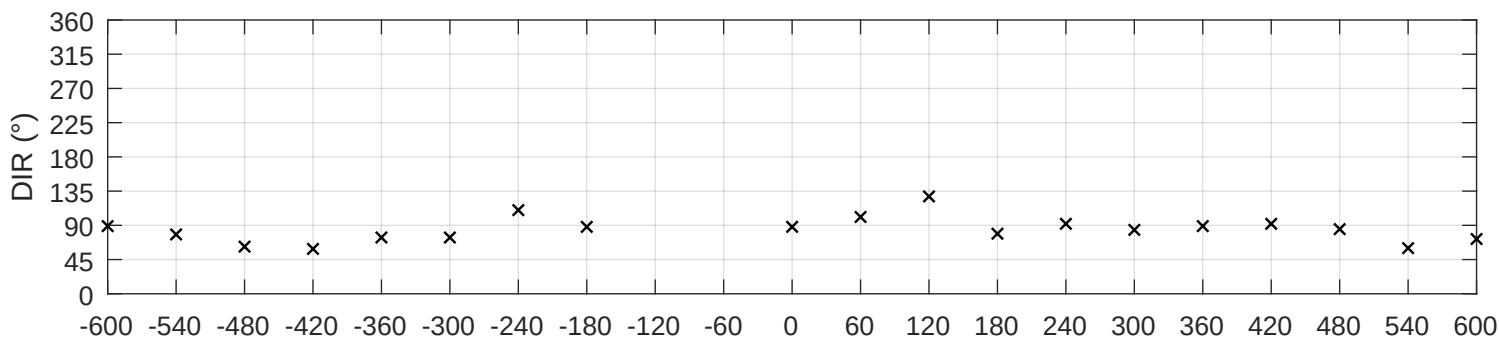
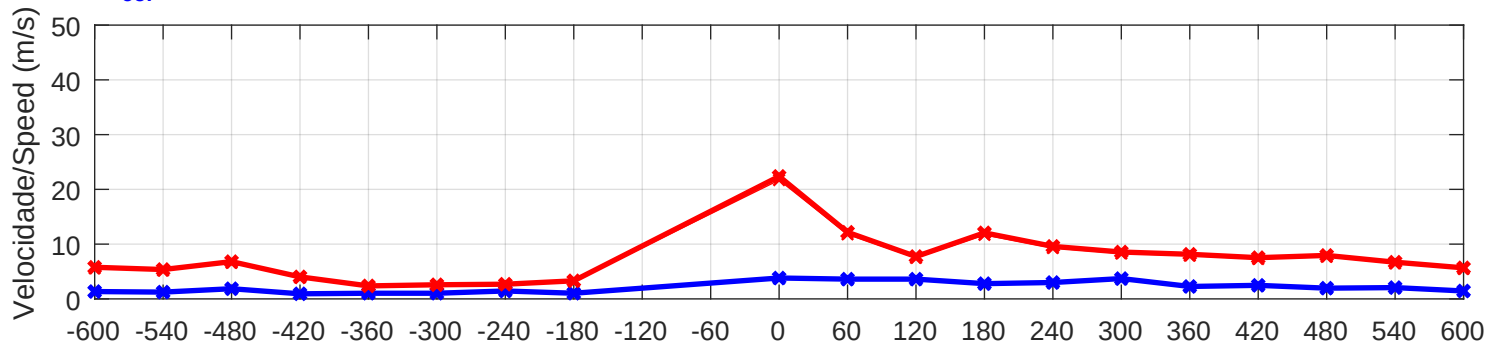
# A355/86619 EVENTO/EVENT 5 - 12/08/2015, 06:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                            | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|----------------------------------------------------|----------------------------------------|---------------------------------|
| $G_{obs} = 29.5 \text{ m/s}$   | $R_{G,-6} = 4.0$ $R_{V,-6} = 0.9$ | $T_{med,3} = 27.0 \text{ }^{\circ}\text{C}$        | $DIR = 154^{\circ}$                    | SUSPEITO                        |
| $V_{obs} = 2.9 \text{ m/s}$    | $R_{G,-3} = 4.8$ $R_{V,-3} = 1.0$ | $\Delta T_{min,3} = -1.6 \text{ }^{\circ}\text{C}$ | $\Delta DIR_{max,-3} = 4^{\circ}$      | SUSPECT                         |
| $G_V = 10.2$                   | $R_{G,+3} = 8.1$ $R_{V,+3} = 1.5$ | $\Delta P_{max,3} = 0.1 \text{ hPa}$               | $\Delta DIR_{max,+3} = 7^{\circ}$      | (32)                            |
| $G_{cor} = 30.4 \text{ m/s}$   | $R_{G,+6} = 5.8$ $R_{V,+6} = 1.3$ | $\Delta$ Grupo/Group = 3                           |                                        |                                 |
| $V_{cor} = 3.0 \text{ m/s}$    |                                   |                                                    |                                        |                                 |



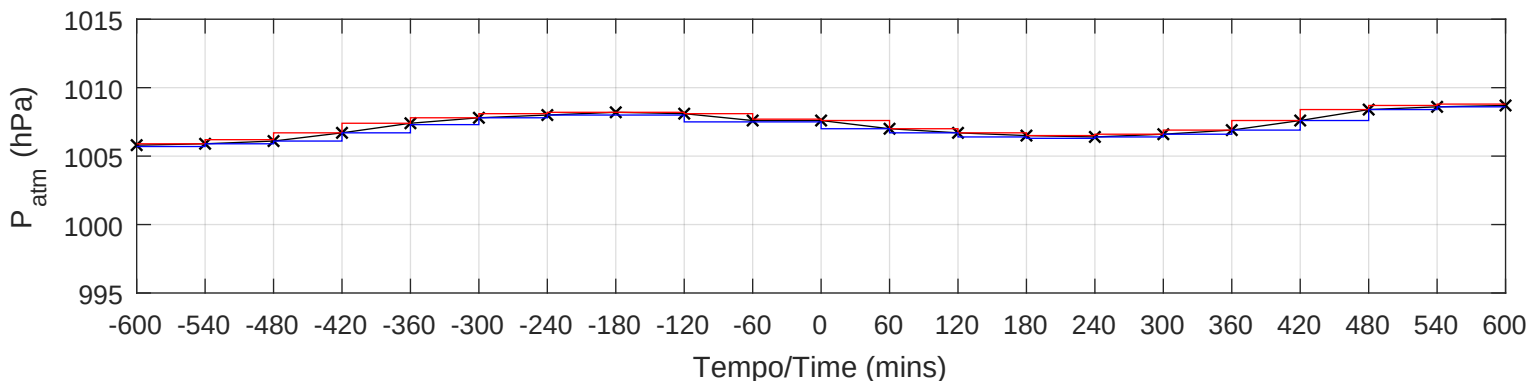
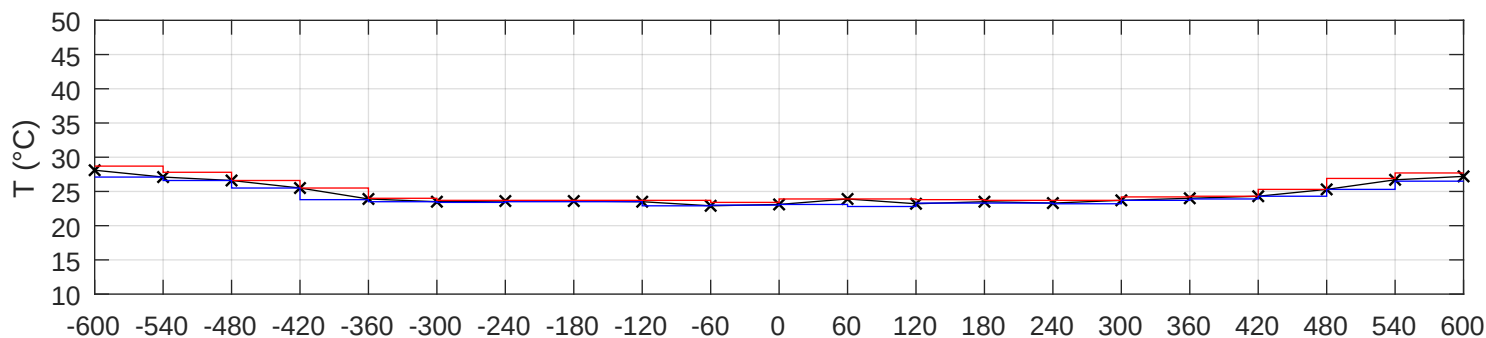
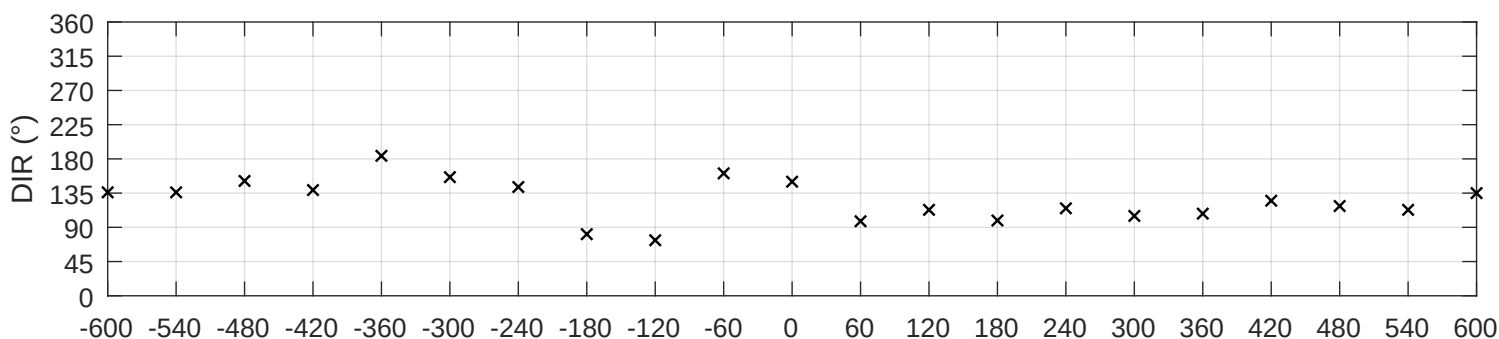
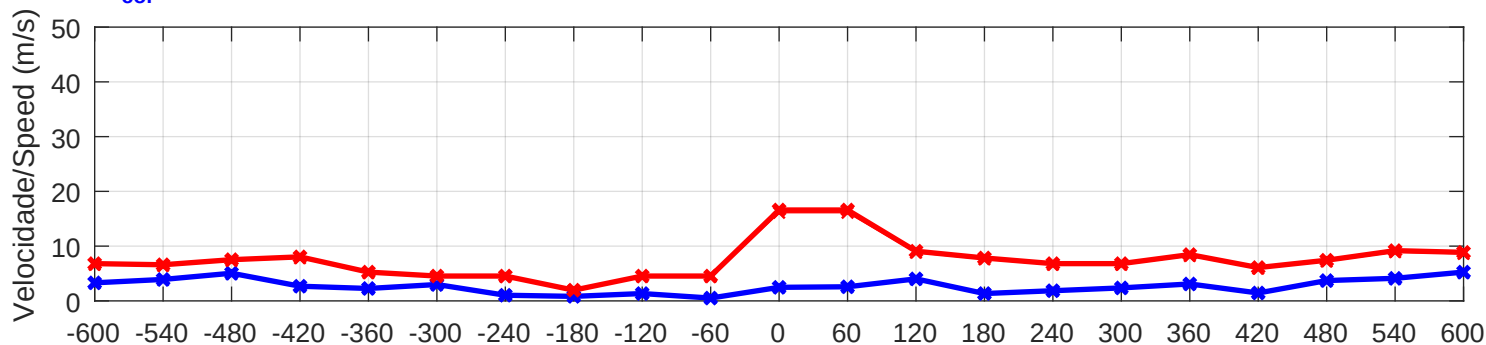
# A355/86619 EVENTO/EVENT 6 - 19/08/2009, 12:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                            | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|----------------------------------------------------|----------------------------------------|---------------------------------|
| $G_{obs} = 21.7 \text{ m/s}$   | $R_{G,-6} = 8.2$ $R_{V,-6} = 3.4$ | $T_{med,3} = 21.9 \text{ }^{\circ}\text{C}$        | $DIR = 88^{\circ}$                     | SUSPEITO                        |
| $V_{obs} = 3.7 \text{ m/s}$    | $R_{G,-3} = 6.8$ $R_{V,-3} = 3.7$ | $\Delta T_{min,3} = -0.5 \text{ }^{\circ}\text{C}$ | $\Delta DIR_{max,-3} = 0^{\circ}$      | SUSPECT                         |
| $G_V = 5.9$                    | $R_{G,+3} = 2.1$ $R_{V,+3} = 1.1$ | $\Delta P_{max,3} = 0.7 \text{ hPa}$               | $\Delta DIR_{max,+3} = 40^{\circ}$     | (32)                            |
| $G_{cor} = 22.4 \text{ m/s}$   | $R_{G,+6} = 2.3$ $R_{V,+6} = 1.2$ | $\Delta$ Grupo/Group = 3                           |                                        |                                 |
| $V_{cor} = 3.8 \text{ m/s}$    |                                   |                                                    |                                        |                                 |



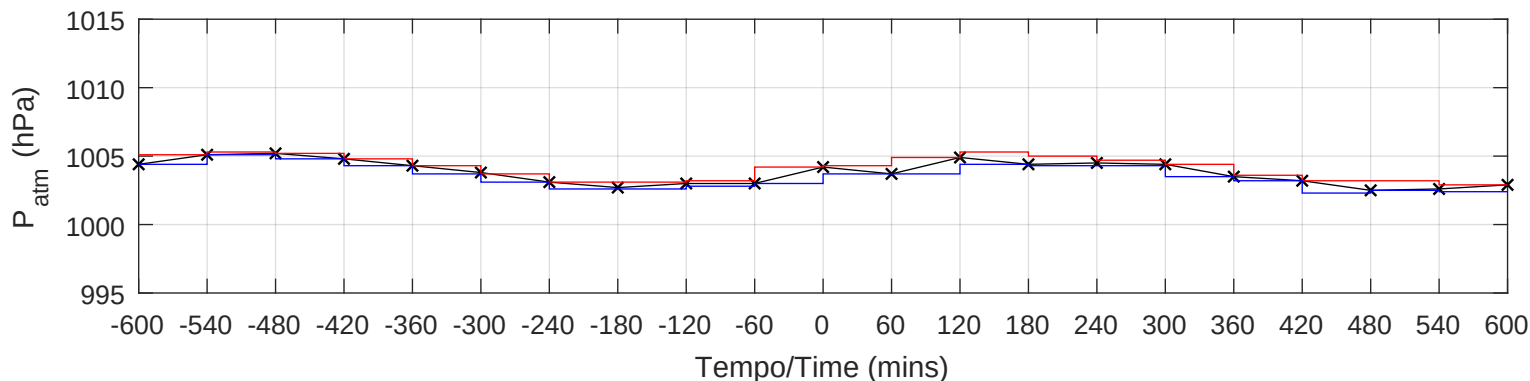
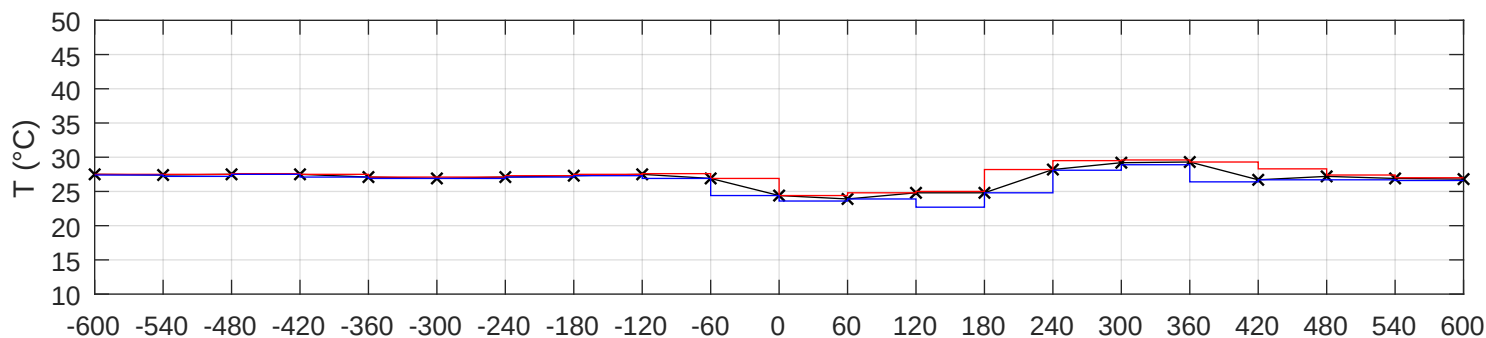
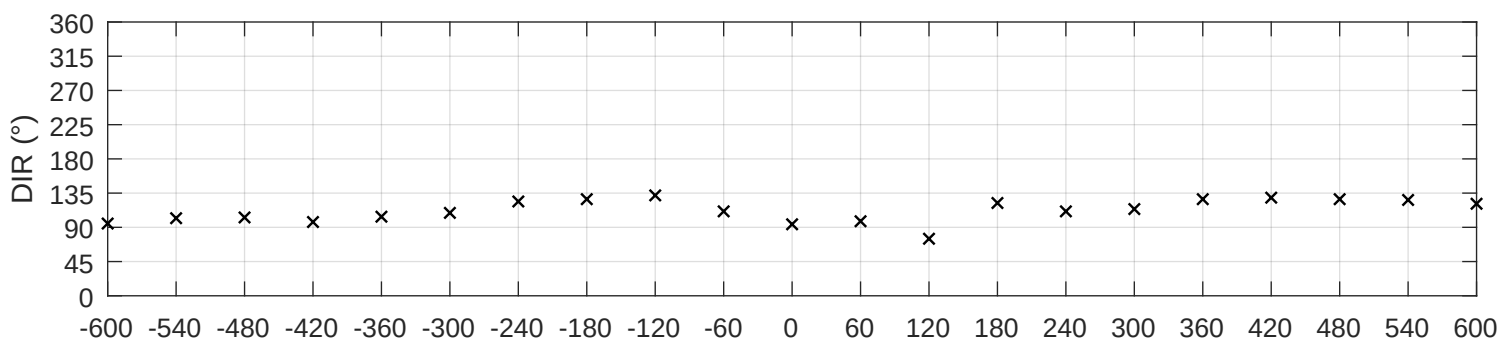
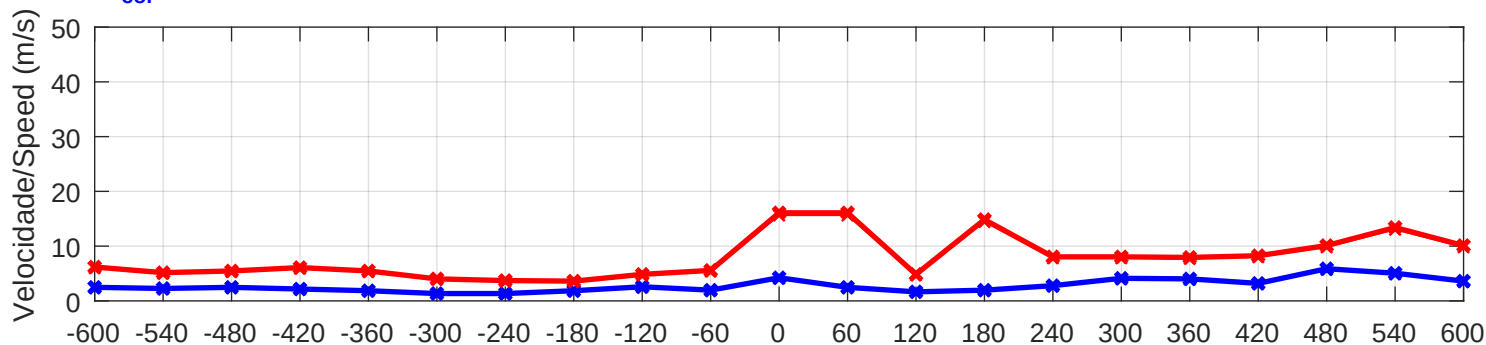
# A355/86619 EVENTO/EVENT 7 - 10/06/2014, 03:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                            | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|----------------------------------------------------|----------------------------------------|---------------------------------|
| $G_{obs} = 16.1 \text{ m/s}$   | $R_{G,-6} = 3.9$ $R_{V,-6} = 1.7$ | $T_{med,3} = 23.3 \text{ }^{\circ}\text{C}$        | $DIR = 150^{\circ}$                    | NÃO-SINÓTICO                    |
| $V_{obs} = 2.4 \text{ m/s}$    | $R_{G,-3} = 4.5$ $R_{V,-3} = 2.8$ | $\Delta T_{min,3} = -0.8 \text{ }^{\circ}\text{C}$ | $\Delta DIR_{max,-3} = 77^{\circ}$     | NON-SYNOPTIC                    |
| $G_V = 6.7$                    | $R_{G,+3} = 1.5$ $R_{V,+3} = 0.9$ | $\Delta P_{max,3} = 0.2 \text{ hPa}$               | $\Delta DIR_{max,+3} = 52^{\circ}$     | (12)                            |
| $G_{cor} = 16.6 \text{ m/s}$   | $R_{G,+6} = 1.8$ $R_{V,+6} = 1.0$ | $\Delta$ Grupo/Group = 3                           |                                        |                                 |
| $V_{cor} = 2.5 \text{ m/s}$    |                                   |                                                    |                                        |                                 |



# A355/86619 EVENTO/EVENT 8 - 13/03/2019, 09:00 UTC (WRDS - WEB)

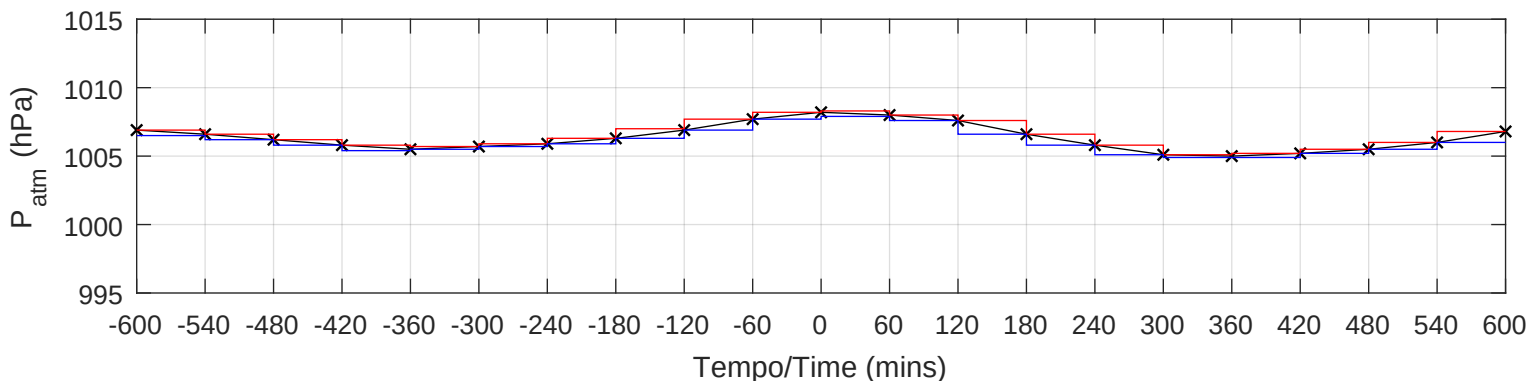
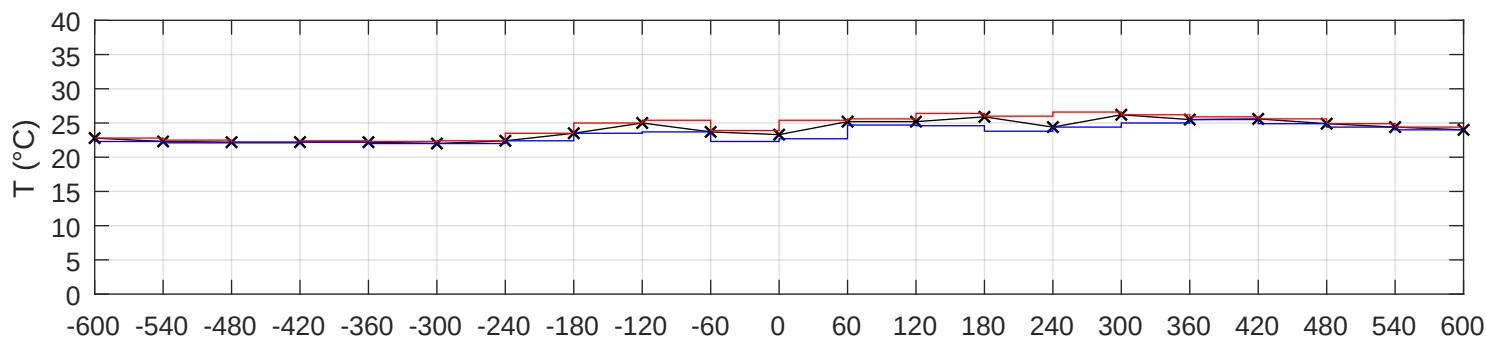
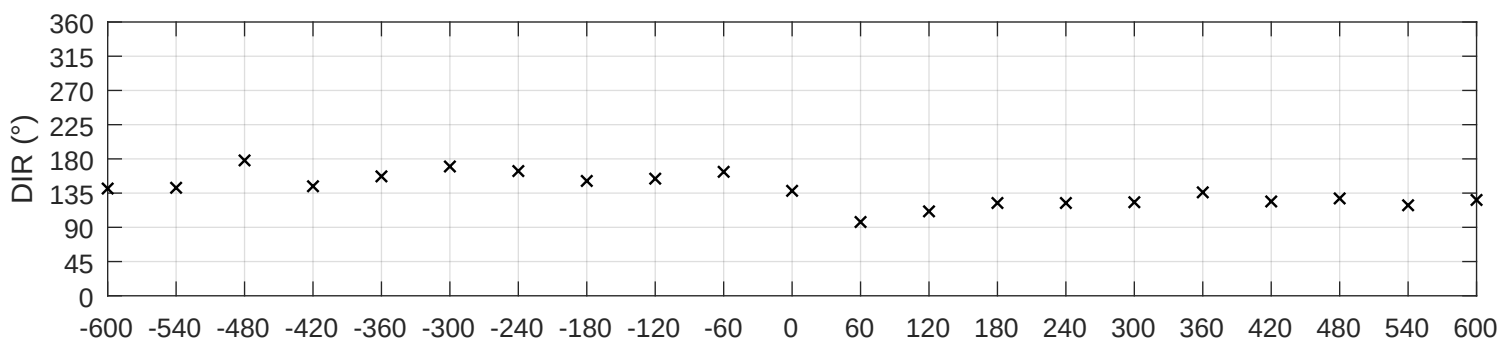
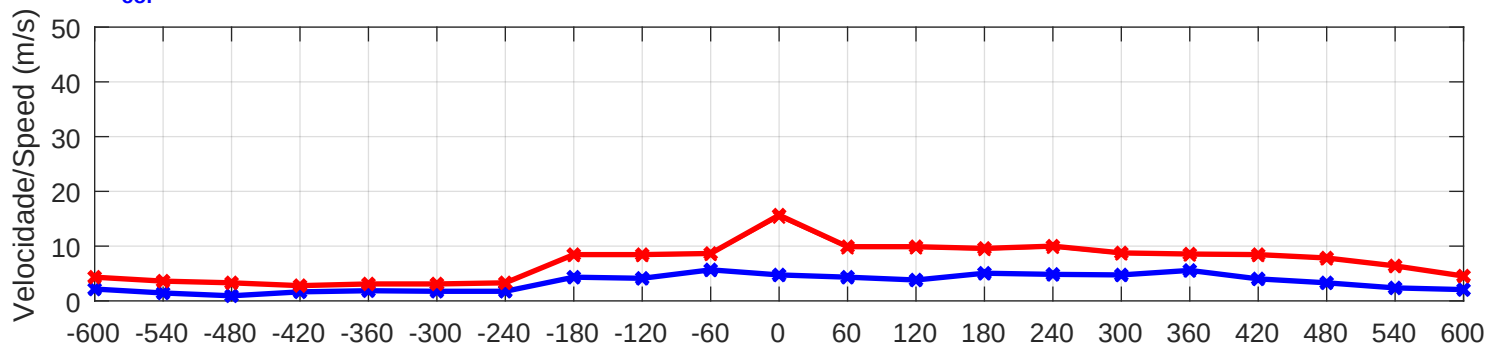
| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                            | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|----------------------------------------------------|----------------------------------------|---------------------------------|
| $G_{obs} = 15.6 \text{ m/s}$   | $R_{G,-6} = 3.5$ $R_{V,-6} = 2.3$ | $T_{med,3} = 27.2 \text{ }^{\circ}\text{C}$        | $DIR = 94^{\circ}$                     | NÃO-SINÓTICO                    |
| $V_{obs} = 4.1 \text{ m/s}$    | $R_{G,-3} = 3.4$ $R_{V,-3} = 2.0$ | $\Delta T_{min,3} = -3.3 \text{ }^{\circ}\text{C}$ | $\Delta DIR_{max,-3} = 38^{\circ}$     | NON-SYNOPTIC                    |
| $G_V = 3.8$                    | $R_{G,+3} = 1.3$ $R_{V,+3} = 2.1$ | $\Delta P_{max,3} = 1.4 \text{ hPa}$               | $\Delta DIR_{max,+3} = 28^{\circ}$     | (12)                            |
| $G_{cor} = 16.1 \text{ m/s}$   | $R_{G,+6} = 1.6$ $R_{V,+6} = 1.5$ | $\Delta$ Grupo/Group = 3                           |                                        |                                 |
| $V_{cor} = 4.2 \text{ m/s}$    |                                   |                                                    |                                        |                                 |





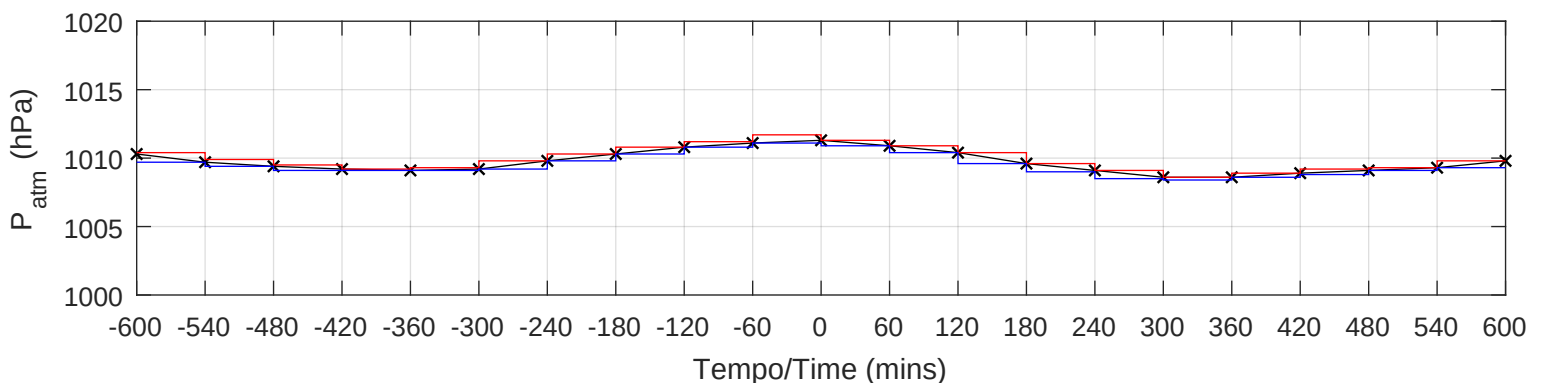
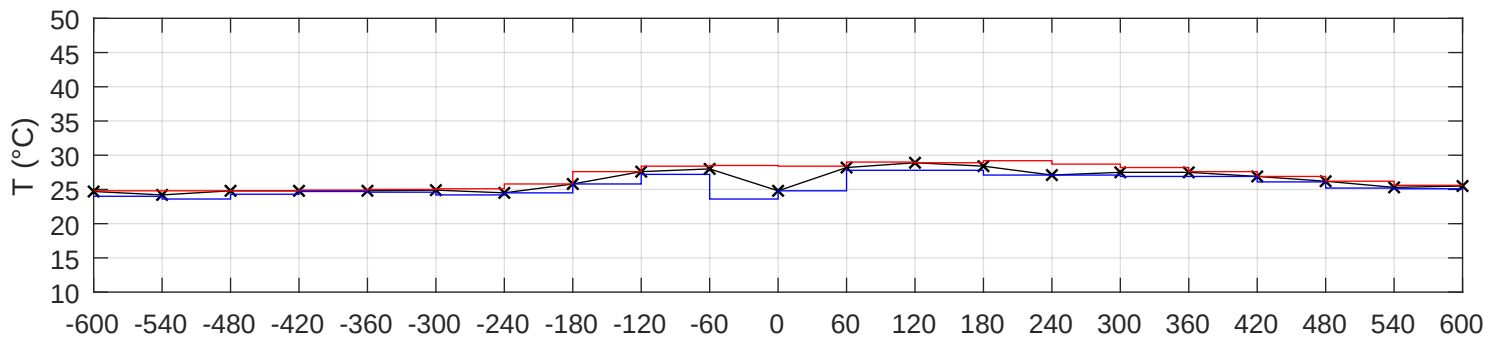
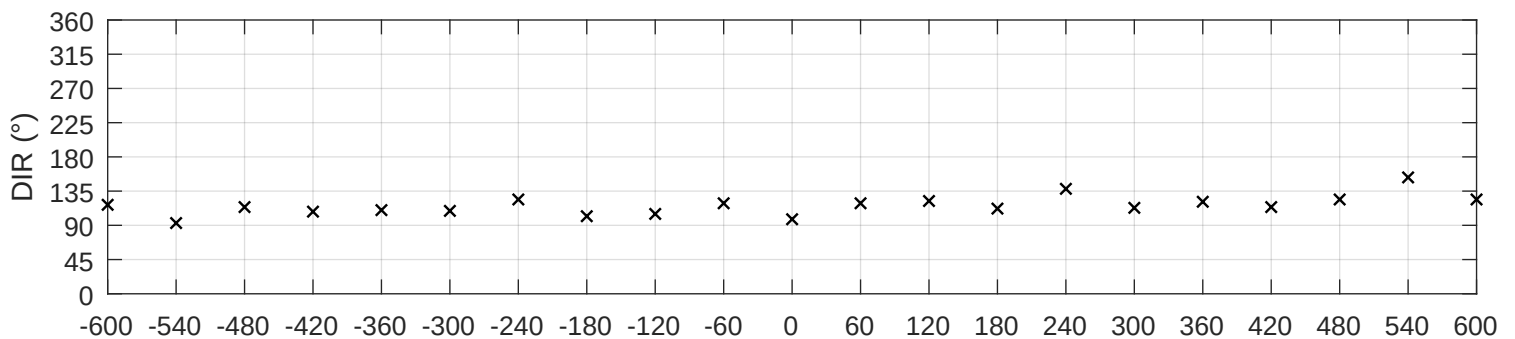
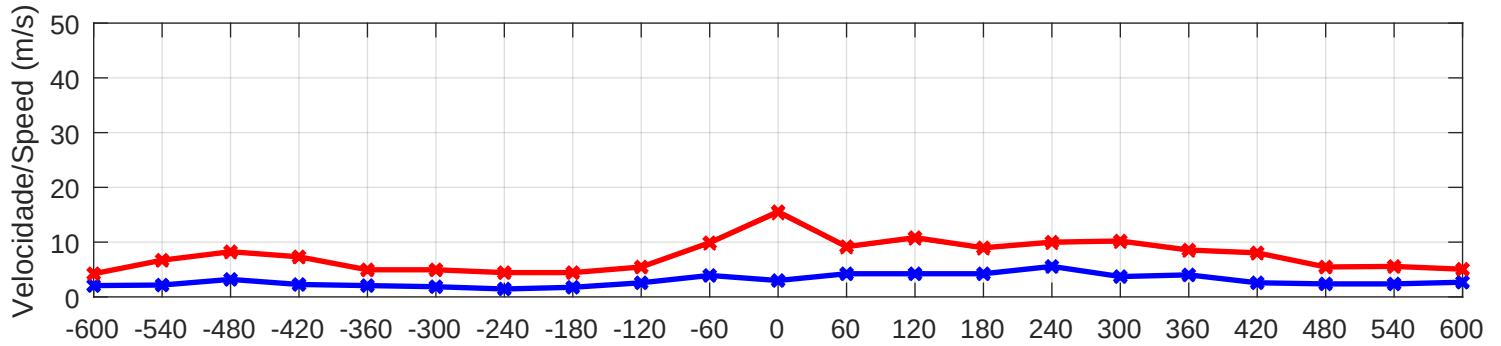
# A355/86619 EVENTO/EVENT 9 - 10/10/2014, 12:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                            | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|----------------------------------------------------|----------------------------------------|---------------------------------|
| $G_{obs} = 15.2 \text{ m/s}$   | $R_{G,-6} = 2.7$ $R_{V,-6} = 2.2$ | $T_{med,3} = 24.1 \text{ }^{\circ}\text{C}$        | $DIR = 138^{\circ}$                    | SINÓTICO                        |
| $V_{obs} = 5.5 \text{ m/s}$    | $R_{G,-3} = 1.8$ $R_{V,-3} = 1.7$ | $\Delta T_{min,3} = -3.1 \text{ }^{\circ}\text{C}$ | $\Delta DIR_{max,-3} = 25^{\circ}$     | SYNOPTIC                        |
| $G_V = 2.8$                    | $R_{G,+3} = 1.6$ $R_{V,+3} = 1.3$ | $\Delta P_{max,3} = 1.4 \text{ hPa}$               | $\Delta DIR_{max,+3} = 41^{\circ}$     | (21)                            |
| $G_{cor} = 15.7 \text{ m/s}$   | $R_{G,+6} = 1.7$ $R_{V,+6} = 1.2$ | $\Delta$ Grupo/Group = 2                           |                                        |                                 |
| $V_{cor} = 5.7 \text{ m/s}$    |                                   |                                                    |                                        |                                 |



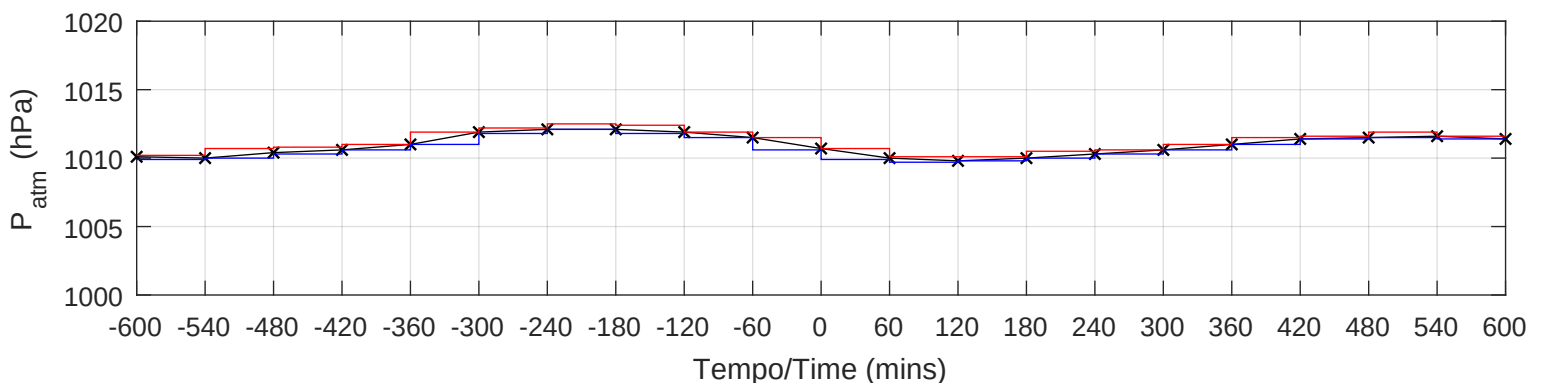
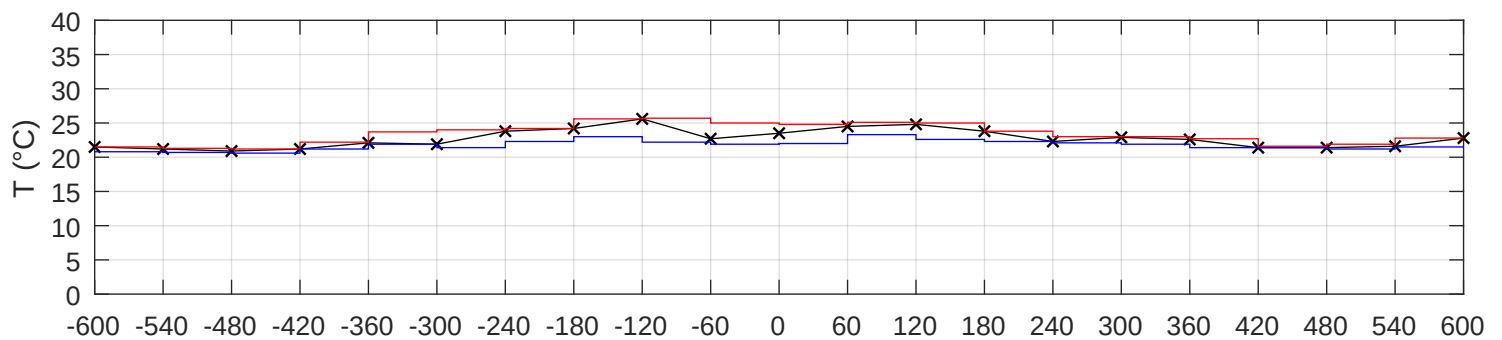
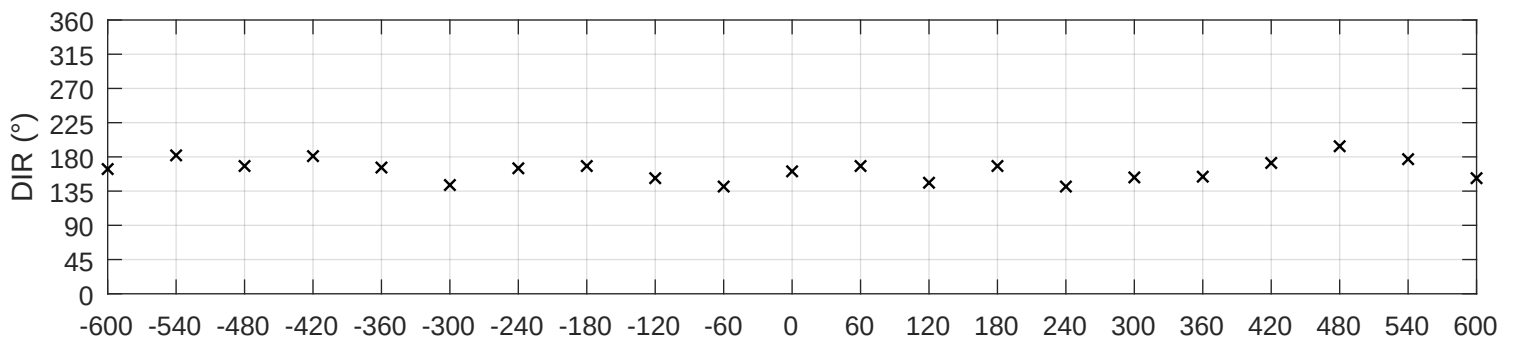
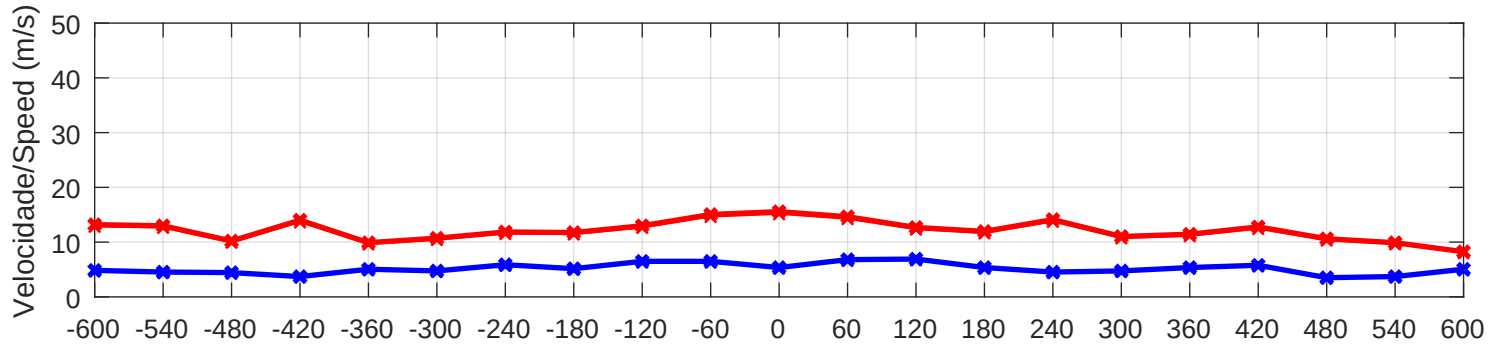
# A355/86619 EVENTO/EVENT 10 - 04/07/2016, 13:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                            | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|----------------------------------------------------|----------------------------------------|---------------------------------|
| $G_{obs} = 15.1 \text{ m/s}$   | $R_{G,-6} = 2.7$ $R_{V,-6} = 2.0$ | $T_{med,3} = 27.1 \text{ }^{\circ}\text{C}$        | $DIR = 98^{\circ}$                     | SINÓTICO                        |
| $V_{obs} = 3.8 \text{ m/s}$    | $R_{G,-3} = 2.4$ $R_{V,-3} = 2.0$ | $\Delta T_{min,3} = -4.8 \text{ }^{\circ}\text{C}$ | $\Delta DIR_{max,-3} = 21^{\circ}$     | SYNOPTIC                        |
| $G_V = 4.0$                    | $R_{G,+3} = 1.6$ $R_{V,+3} = 1.0$ | $\Delta P_{max,3} = 0.9 \text{ hPa}$               | $\Delta DIR_{max,+3} = 24^{\circ}$     | (21)                            |
| $G_{cor} = 15.6 \text{ m/s}$   | $R_{G,+6} = 1.6$ $R_{V,+6} = 0.9$ | $\Delta$ Grupo/Group = 2                           |                                        |                                 |
| $V_{cor} = 3.9 \text{ m/s}$    |                                   |                                                    |                                        |                                 |



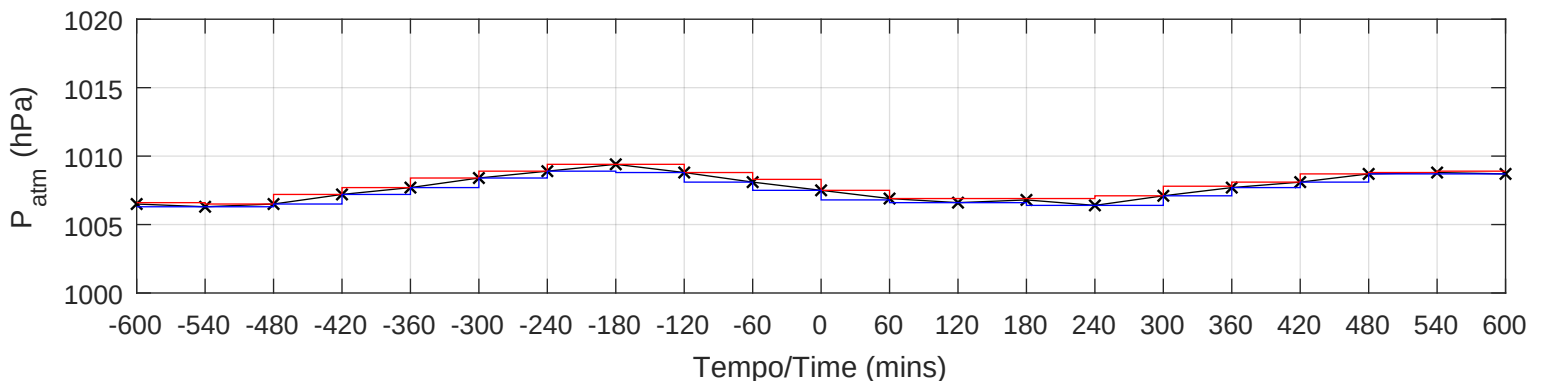
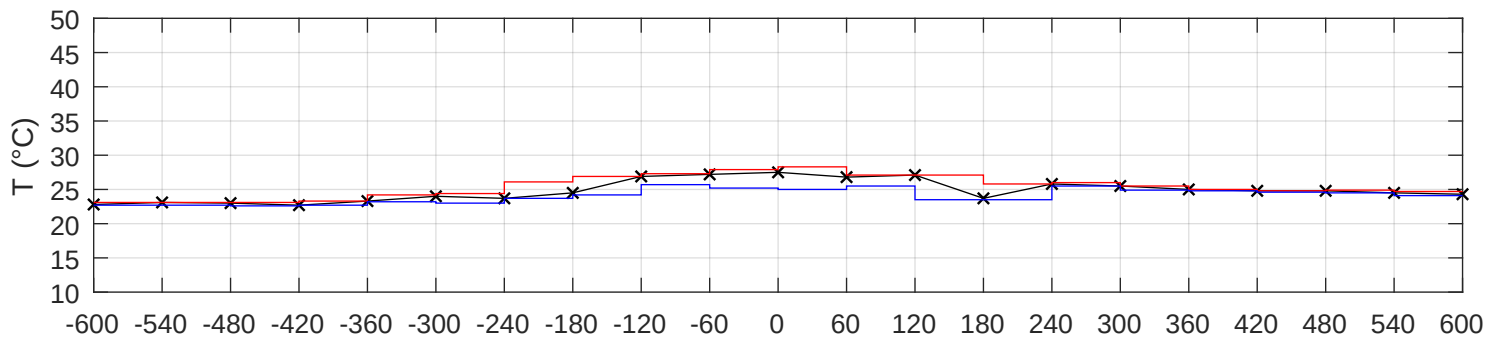
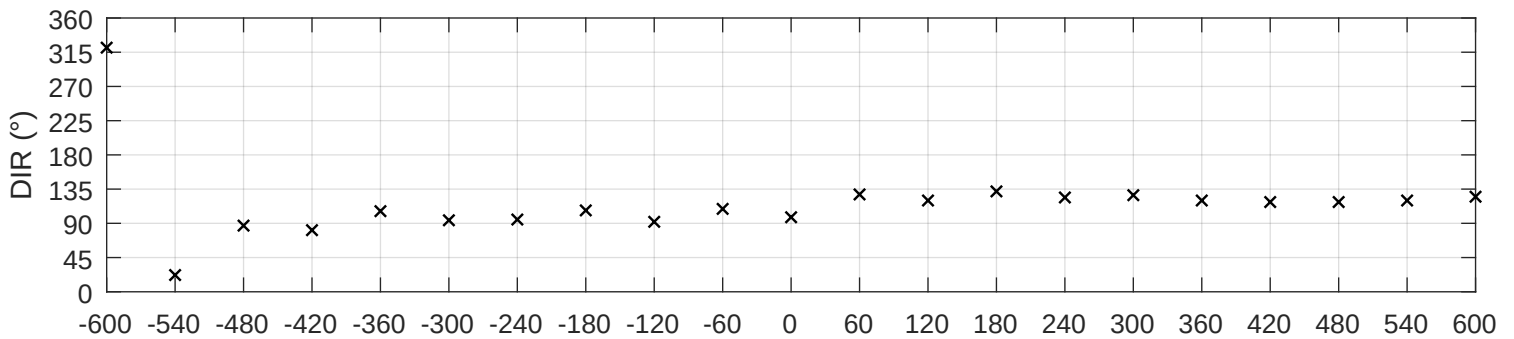
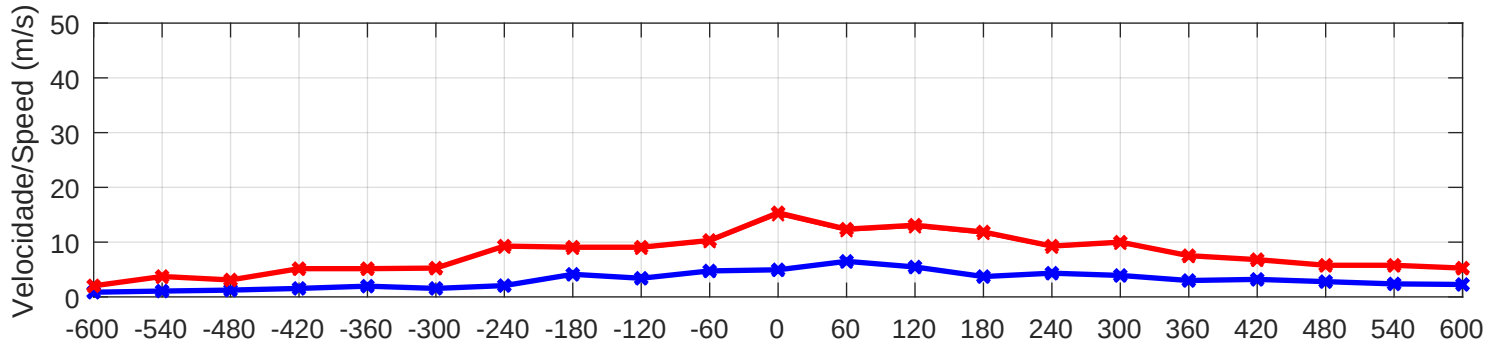
# A355/86619 EVENTO/EVENT 11 - 04/07/2017, 16:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                            | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|----------------------------------------------------|----------------------------------------|---------------------------------|
| $G_{obs} = 15.1 \text{ m/s}$   | $R_{G,-6} = 1.3$ $R_{V,-6} = 1.3$ | $T_{med,3} = 24.2 \text{ }^{\circ}\text{C}$        | $DIR = 161^{\circ}$                    | SINÓTICO                        |
| $V_{obs} = 6.3 \text{ m/s}$    | $R_{G,-3} = 1.2$ $R_{V,-3} = 1.1$ | $\Delta T_{min,3} = -3.8 \text{ }^{\circ}\text{C}$ | $\Delta DIR_{max,-3} = 20^{\circ}$     | SYNOPTIC                        |
| $G_V = 2.4$                    | $R_{G,+3} = 1.2$ $R_{V,+3} = 1.0$ | $\Delta P_{max,3} = 0.1 \text{ hPa}$               | $\Delta DIR_{max,+3} = 15^{\circ}$     | (22)                            |
| $G_{cor} = 15.6 \text{ m/s}$   | $R_{G,+6} = 1.2$ $R_{V,+6} = 1.2$ | $\Delta \text{ Grupo/Group} = 3$                   |                                        |                                 |
| $V_{cor} = 6.5 \text{ m/s}$    |                                   |                                                    |                                        |                                 |



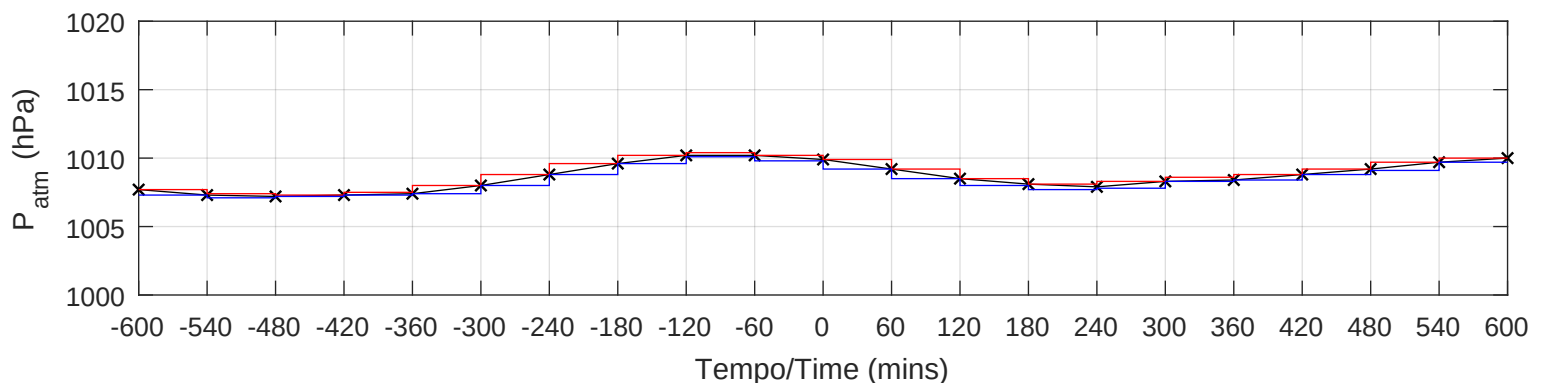
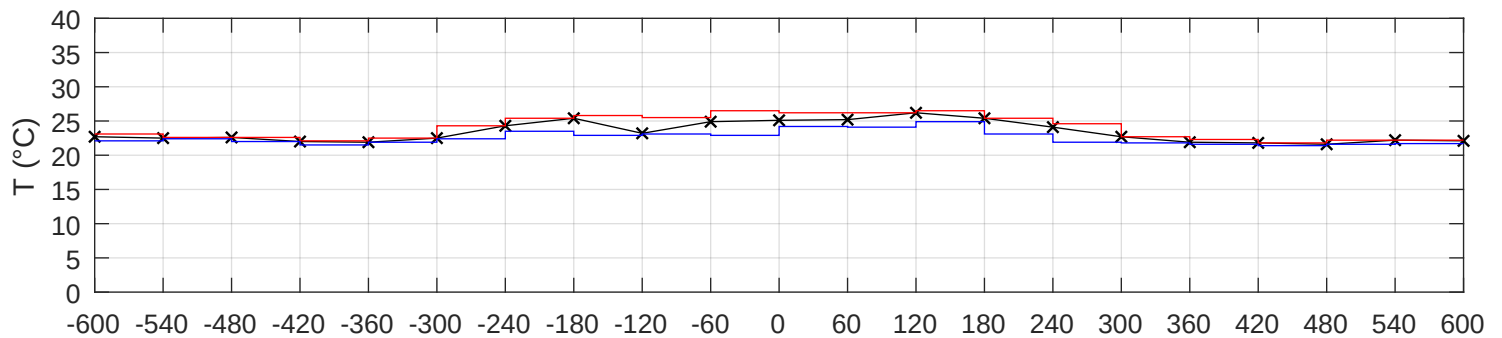
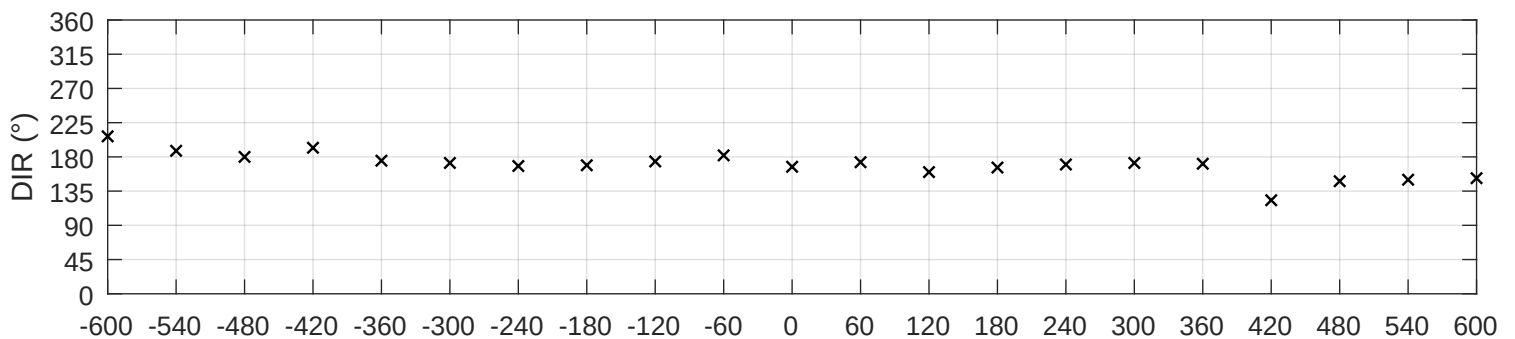
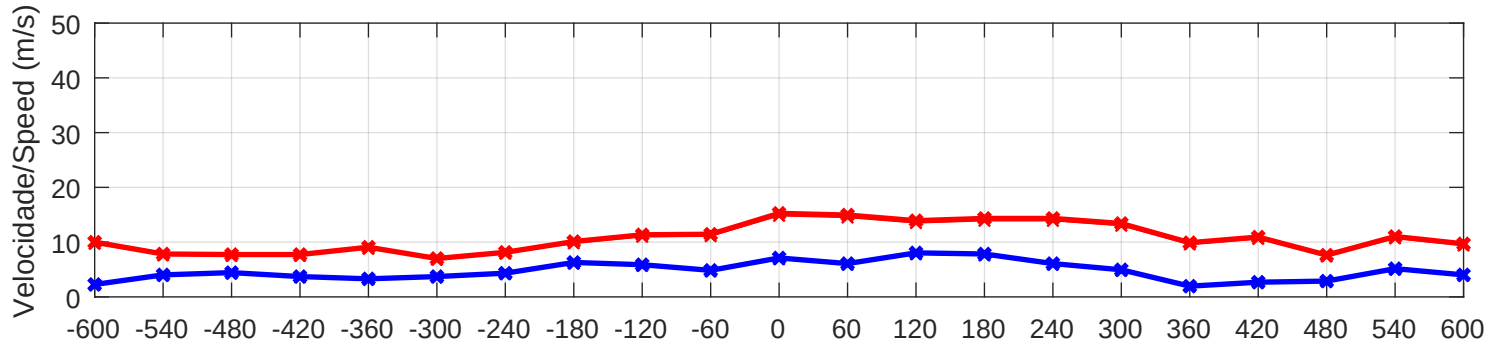
# A355/86619 EVENTO/EVENT 12 - 27/08/2016, 15:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                            | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|----------------------------------------------------|----------------------------------------|---------------------------------|
| $G_{obs} = 14.9 \text{ m/s}$   | $R_{G,-6} = 1.9$ $R_{V,-6} = 1.7$ | $T_{med,3} = 26.2 \text{ }^{\circ}\text{C}$        | $DIR = 98^{\circ}$                     | SINÓTICO                        |
| $V_{obs} = 4.8 \text{ m/s}$    | $R_{G,-3} = 1.6$ $R_{V,-3} = 1.2$ | $\Delta T_{min,3} = -2.9 \text{ }^{\circ}\text{C}$ | $\Delta DIR_{max,-3} = 11^{\circ}$     | SYNOPTIC                        |
| $G_V = 3.1$                    | $R_{G,+3} = 1.2$ $R_{V,+3} = 0.9$ | $\Delta P_{max,3} = 0.2 \text{ hPa}$               | $\Delta DIR_{max,+3} = 34^{\circ}$     | (22)                            |
| $G_{cor} = 15.4 \text{ m/s}$   | $R_{G,+6} = 1.4$ $R_{V,+6} = 1.1$ | $\Delta$ Grupo/Group = 3                           |                                        |                                 |
| $V_{cor} = 4.9 \text{ m/s}$    |                                   |                                                    |                                        |                                 |



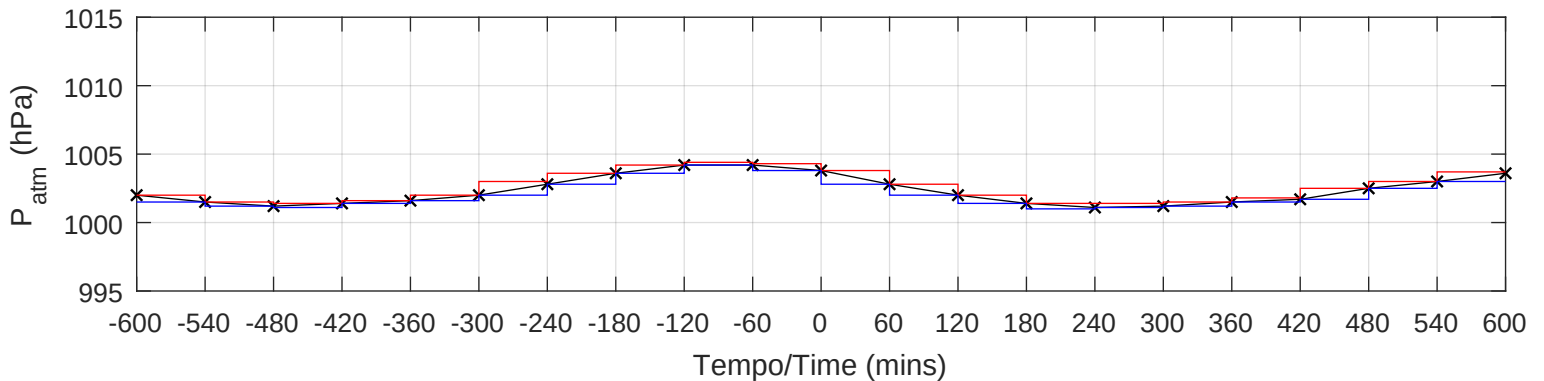
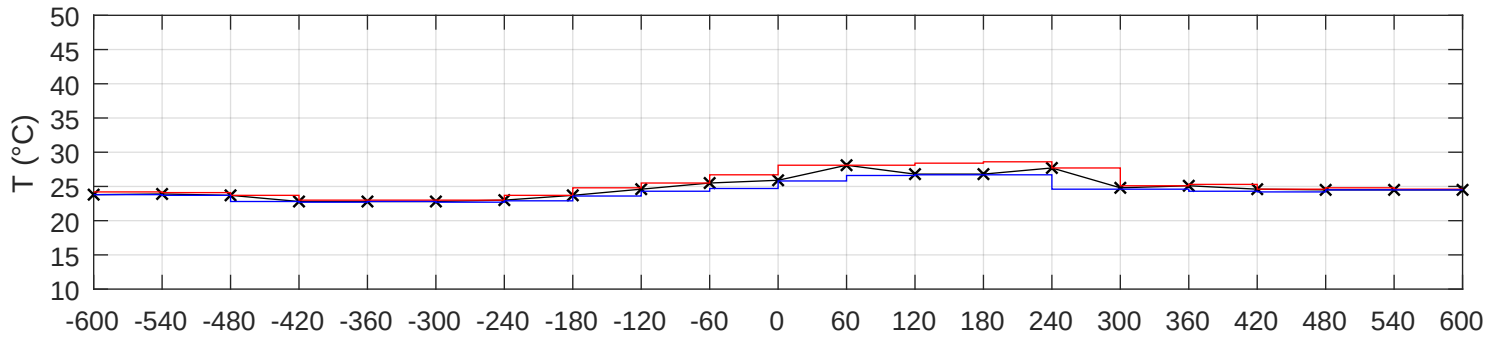
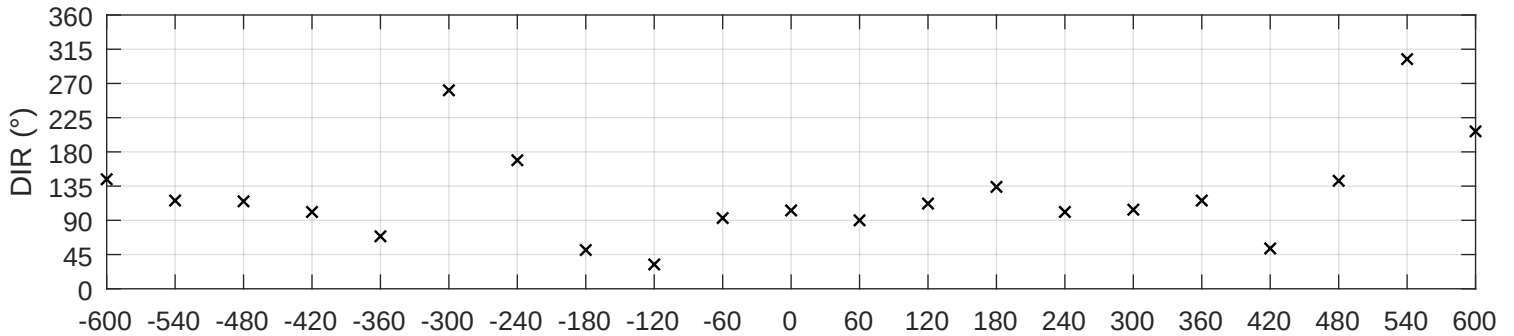
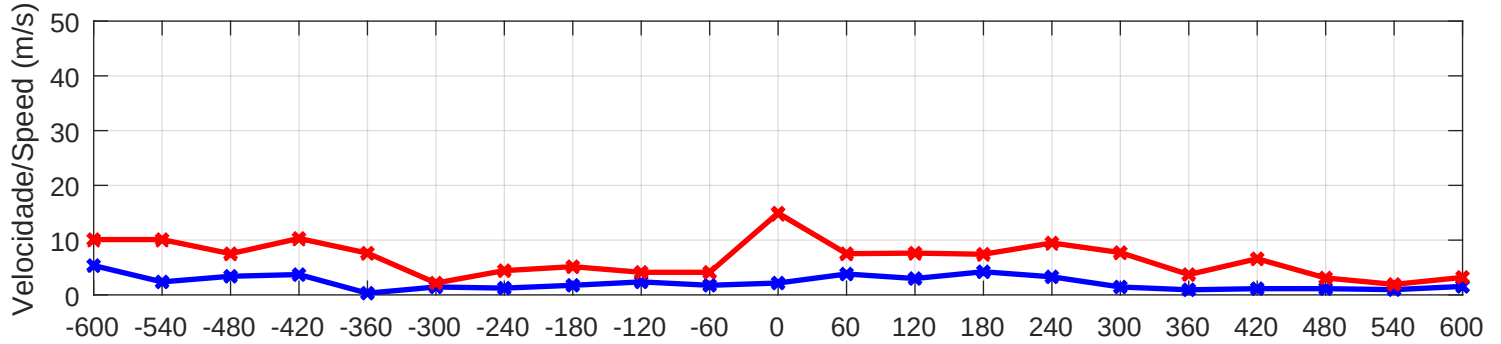
# A355/86619 EVENTO/EVENT 13 - 06/09/2014, 14:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                            | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|----------------------------------------------------|----------------------------------------|---------------------------------|
| $G_{obs} = 14.8 \text{ m/s}$   | $R_{G,-6} = 1.6$ $R_{V,-6} = 1.5$ | $T_{med,3} = 24.5 \text{ }^{\circ}\text{C}$        | $DIR = 167^{\circ}$                    | SINÓTICO                        |
| $V_{obs} = 6.9 \text{ m/s}$    | $R_{G,-3} = 1.4$ $R_{V,-3} = 1.3$ | $\Delta T_{min,3} = -2.7 \text{ }^{\circ}\text{C}$ | $\Delta DIR_{max,-3} = 15^{\circ}$     | SYNOPTIC                        |
| $G_V = 2.1$                    | $R_{G,+3} = 1.1$ $R_{V,+3} = 1.0$ | $\Delta P_{max,3} = 0.8 \text{ hPa}$               | $\Delta DIR_{max,+3} = 7^{\circ}$      | (22)                            |
| $G_{cor} = 15.3 \text{ m/s}$   | $R_{G,+6} = 1.1$ $R_{V,+6} = 1.2$ | $\Delta$ Grupo/Group = 3                           |                                        |                                 |
| $V_{cor} = 7.1 \text{ m/s}$    |                                   |                                                    |                                        |                                 |



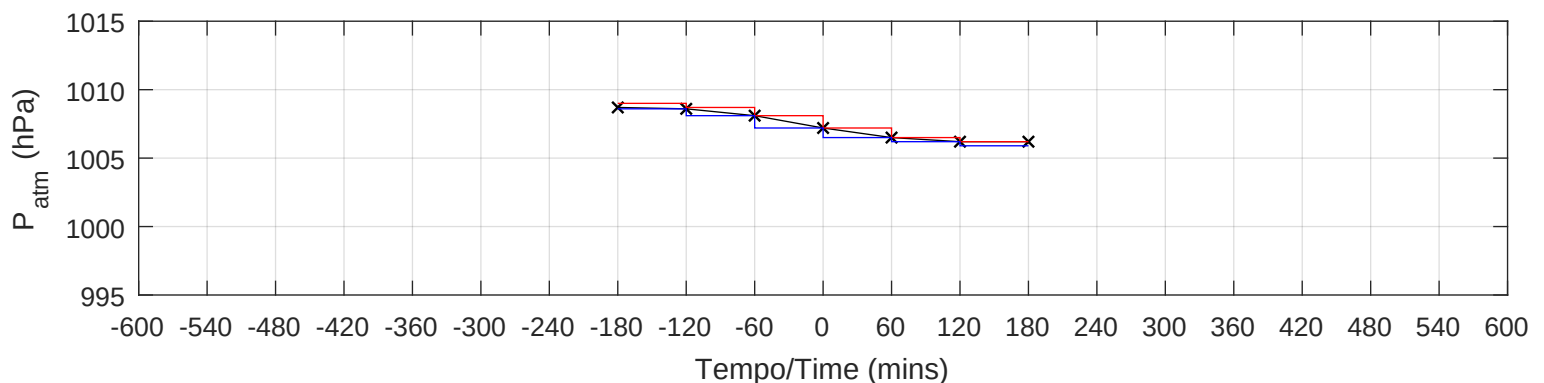
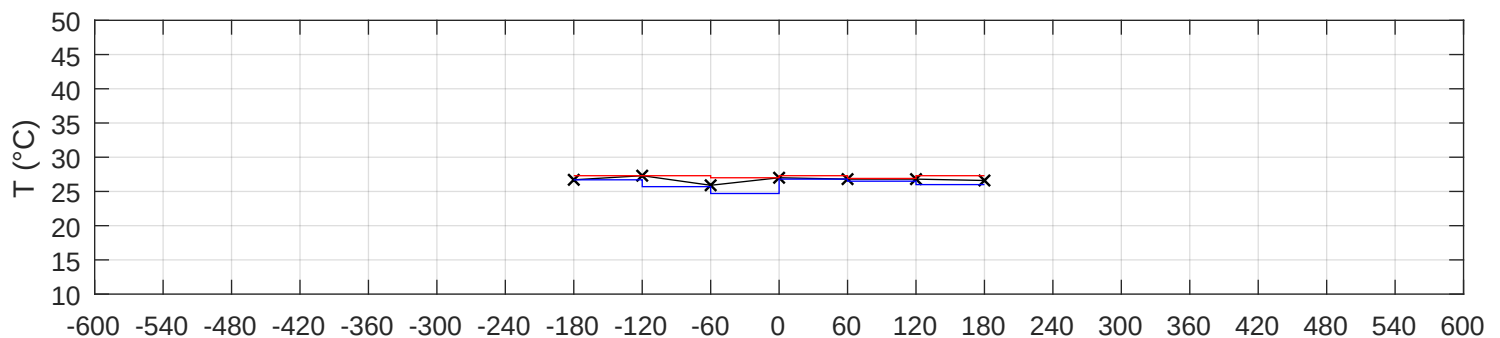
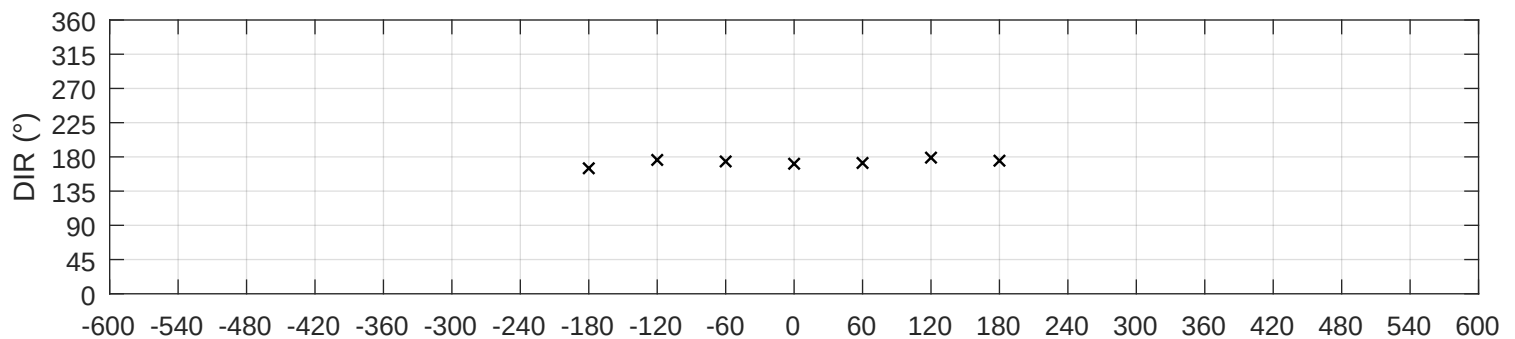
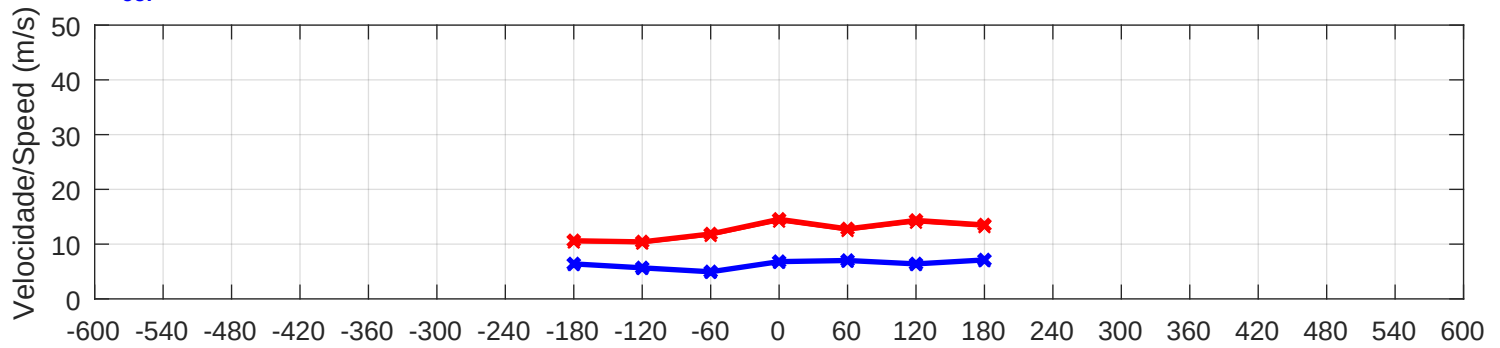
# A355/86619 EVENTO/EVENT 14 - 01/05/2014, 14:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                            | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|----------------------------------------------------|----------------------------------------|---------------------------------|
| $G_{obs} = 14.5 \text{ m/s}$   | $R_{G,-6} = 3.2$ $R_{V,-6} = 1.5$ | $T_{med,3} = 24.6 \text{ }^{\circ}\text{C}$        | $DIR = 103^{\circ}$                    | NÃO-SINÓTICO                    |
| $V_{obs} = 2.1 \text{ m/s}$    | $R_{G,-3} = 3.3$ $R_{V,-3} = 1.1$ | $\Delta T_{min,3} = -0.9 \text{ }^{\circ}\text{C}$ | $\Delta DIR_{max,-3} = 71^{\circ}$     | NON-SYNOPTIC                    |
| $G_V = 6.9$                    | $R_{G,+3} = 2.0$ $R_{V,+3} = 0.6$ | $\Delta P_{max,3} = 0.8 \text{ hPa}$               | $\Delta DIR_{max,+3} = 31^{\circ}$     | (12)                            |
| $G_{cor} = 14.9 \text{ m/s}$   | $R_{G,+6} = 2.1$ $R_{V,+6} = 0.8$ | $\Delta \text{ Grupo/Group} = 3$                   |                                        |                                 |
| $V_{cor} = 2.2 \text{ m/s}$    |                                   |                                                    |                                        |                                 |



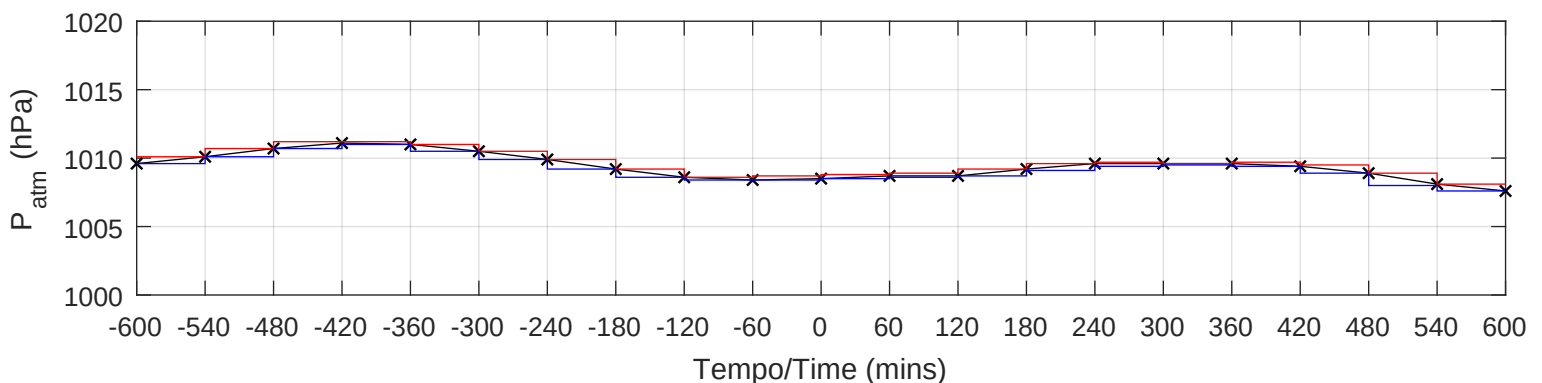
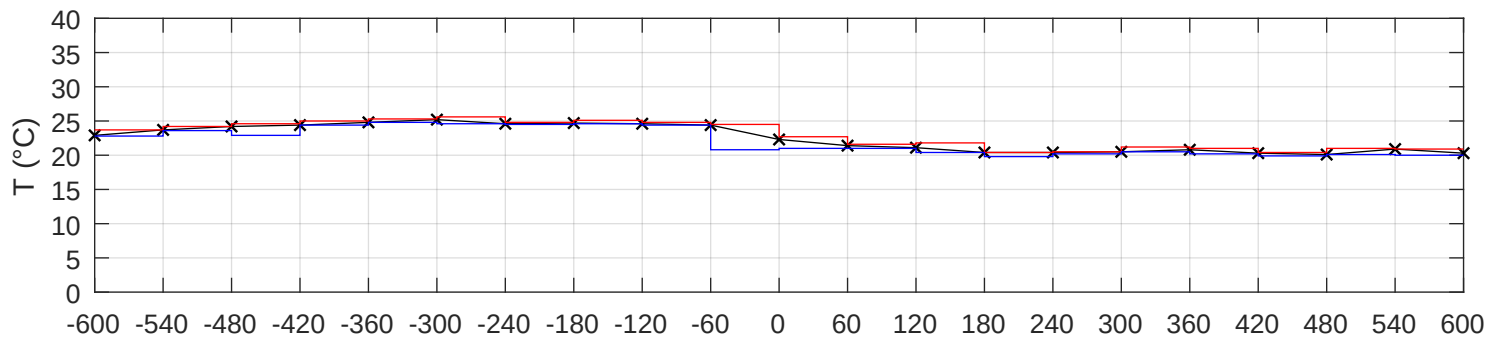
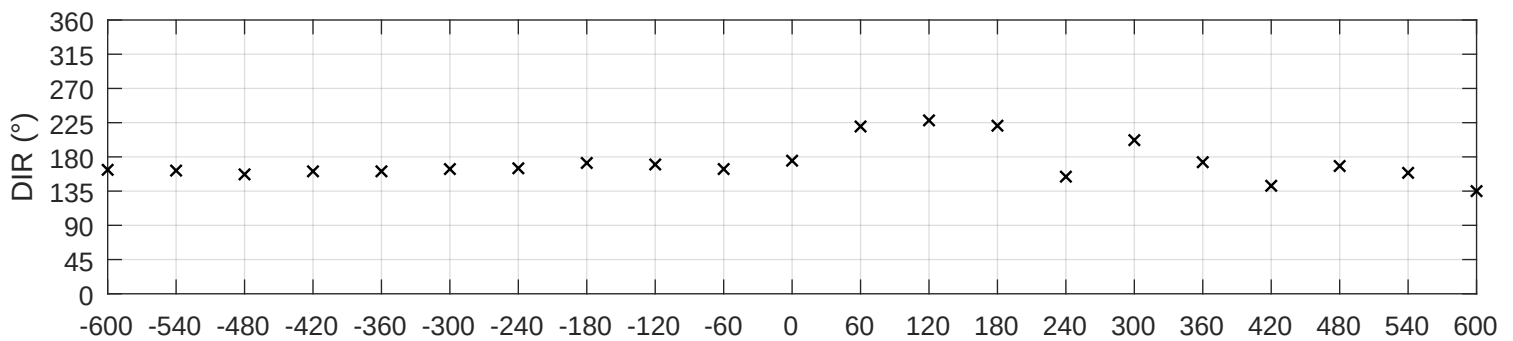
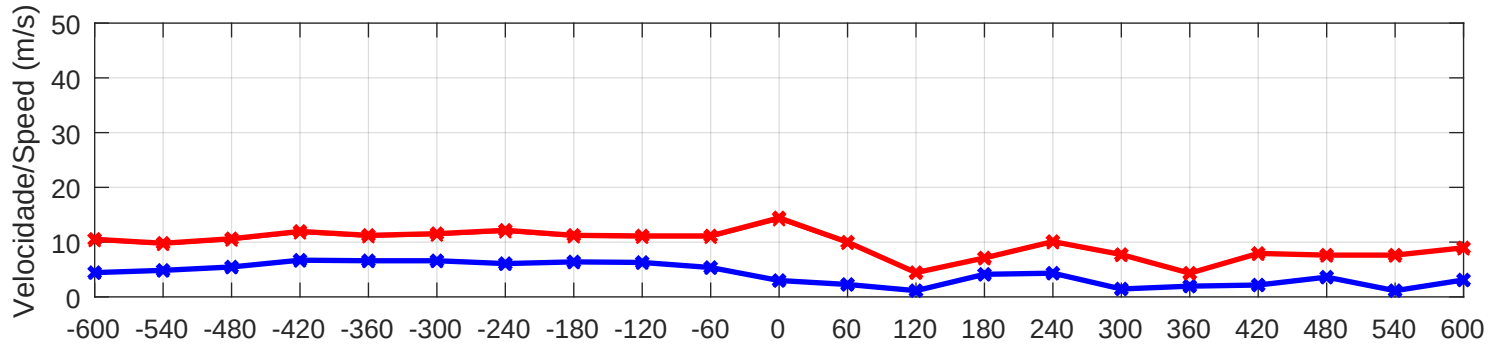
# A355/86619 EVENTO/EVENT 15 - 04/06/2010, 15:00 UTC (WRDS - DISME)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                            | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|----------------------------------------------------|----------------------------------------|---------------------------------|
| $G_{obs} = 14.1 \text{ m/s}$   | $R_{G,-6} = []$ $R_{V,-6} = []$   | $T_{med,3} = 26.6 \text{ }^{\circ}\text{C}$        | $DIR = 171^{\circ}$                    | SINÓTICO                        |
| $V_{obs} = 6.6 \text{ m/s}$    | $R_{G,-3} = 1.3$ $R_{V,-3} = 1.2$ | $\Delta T_{min,3} = -2.6 \text{ }^{\circ}\text{C}$ | $\Delta DIR_{max,-3} = 6^{\circ}$      | SYNOPTIC                        |
| $G_V = 2.1$                    | $R_{G,+3} = 1.1$ $R_{V,+3} = 1.0$ | $\Delta P_{max,3} = 0.1 \text{ hPa}$               | $\Delta DIR_{max,+3} = 8^{\circ}$      | (22)                            |
| $G_{cor} = 14.5 \text{ m/s}$   | $R_{G,+6} = []$ $R_{V,+6} = []$   | $\Delta$ Grupo/Group = 3                           |                                        |                                 |
| $V_{cor} = 6.8 \text{ m/s}$    |                                   |                                                    |                                        |                                 |



# A355/86619 EVENTO/EVENT 16 - 18/08/2010, 19:00 UTC (WRDS - DISME)

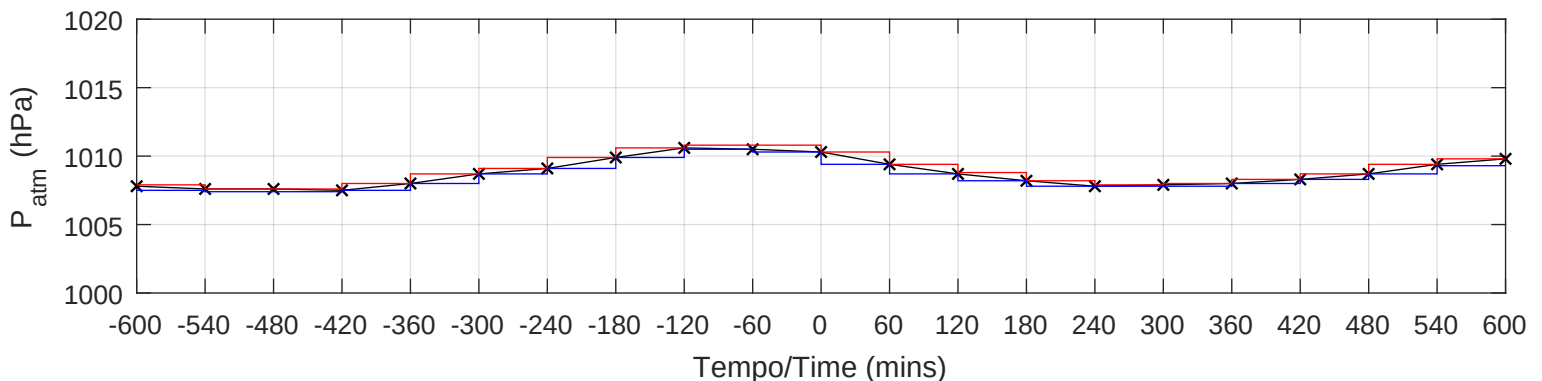
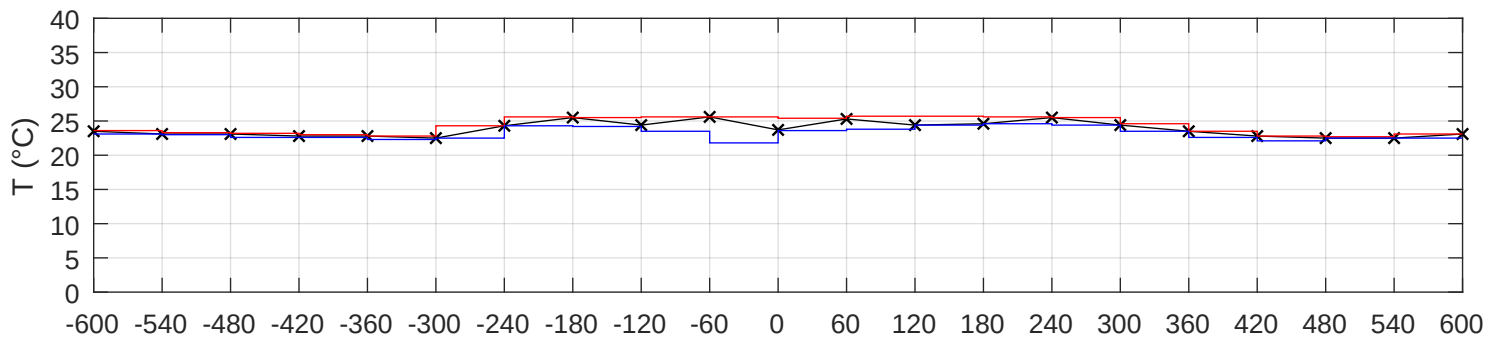
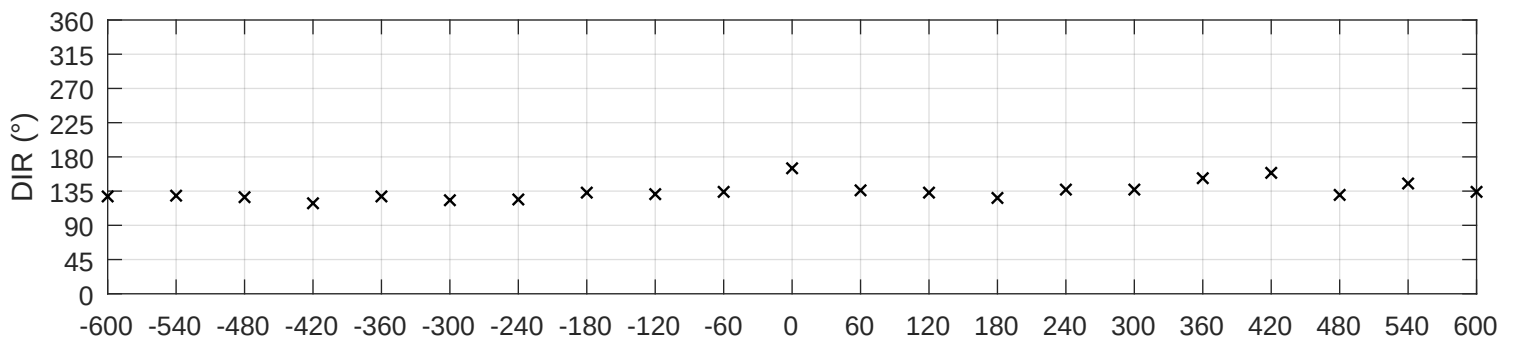
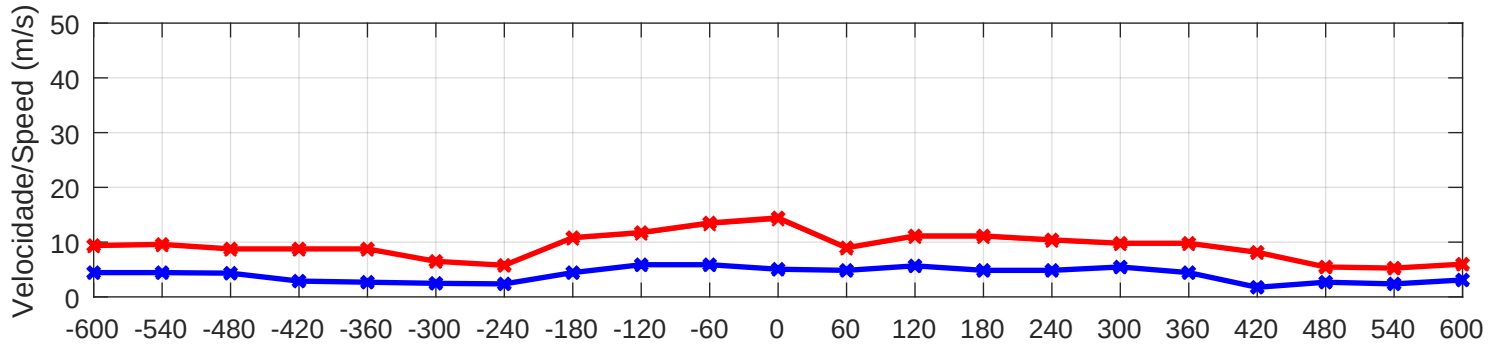
| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                            | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|----------------------------------------------------|----------------------------------------|---------------------------------|
| $G_{obs} = 14.0 \text{ m/s}$   | $R_{G,-6} = 1.3$ $R_{V,-6} = 0.8$ | $T_{med,3} = 24.6 \text{ }^{\circ}\text{C}$        | $DIR = 175^{\circ}$                    | SINÓTICO                        |
| $V_{obs} = 5.2 \text{ m/s}$    | $R_{G,-3} = 1.3$ $R_{V,-3} = 0.9$ | $\Delta T_{min,3} = -4.0 \text{ }^{\circ}\text{C}$ | $\Delta DIR_{max,-3} = 11^{\circ}$     | SYNOPTIC                        |
| $G_V = 2.7$                    | $R_{G,+3} = 2.0$ $R_{V,+3} = 2.5$ | $\Delta P_{max,3} = 0.4 \text{ hPa}$               | $\Delta DIR_{max,+3} = 53^{\circ}$     | (22)                            |
| $G_{cor} = 14.4 \text{ m/s}$   | $R_{G,+6} = 2.0$ $R_{V,+6} = 2.0$ | $\Delta$ Grupo/Group = 3                           |                                        |                                 |
| $V_{cor} = 5.4 \text{ m/s}$    |                                   |                                                    |                                        |                                 |





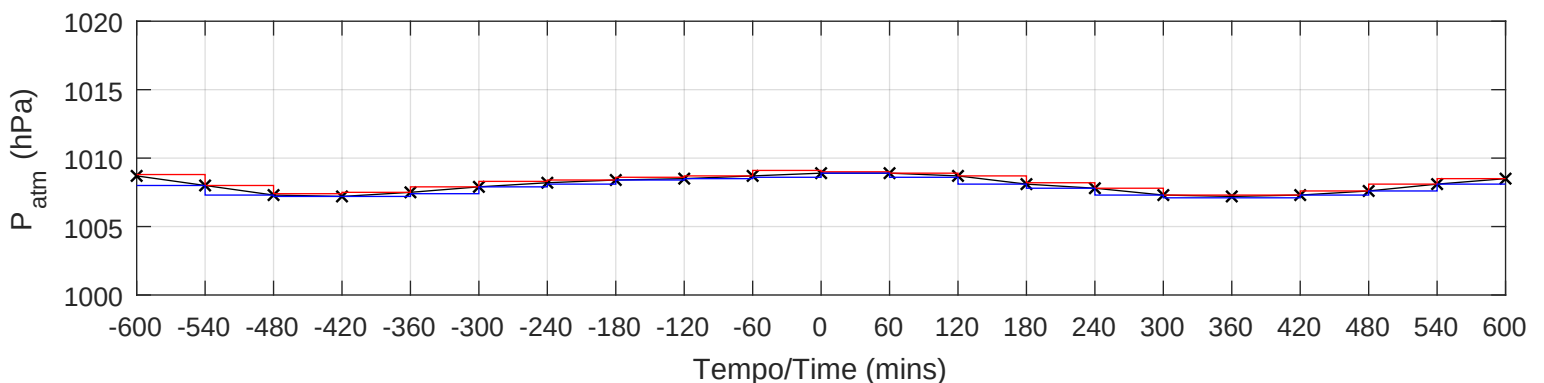
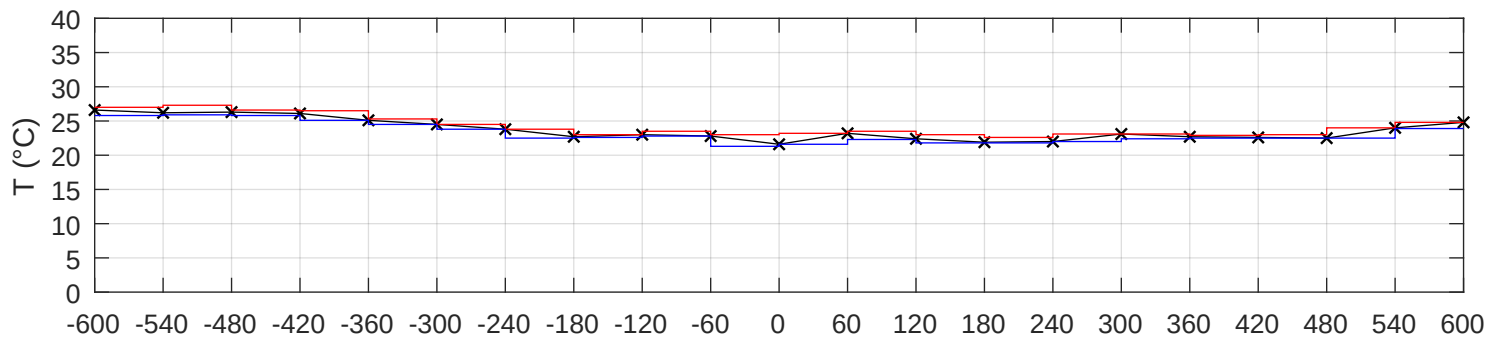
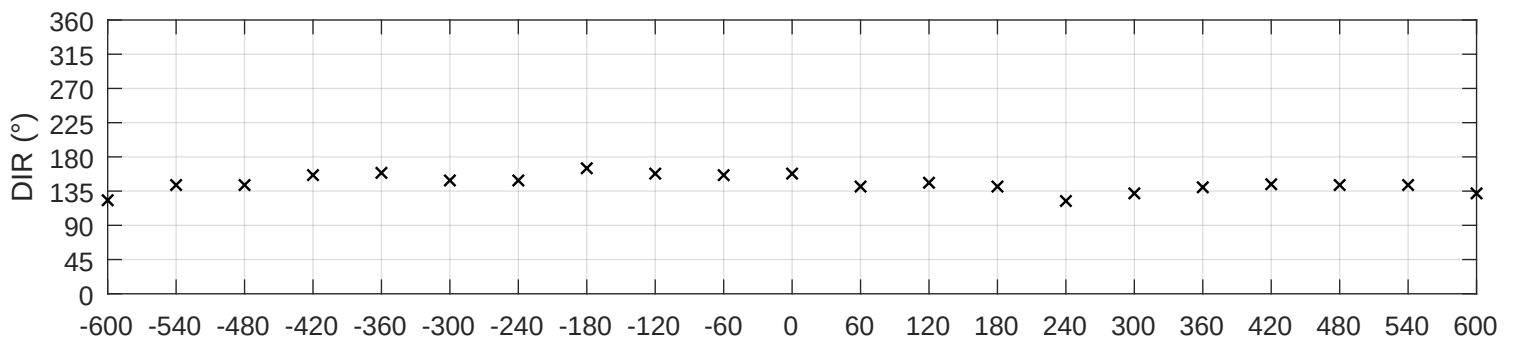
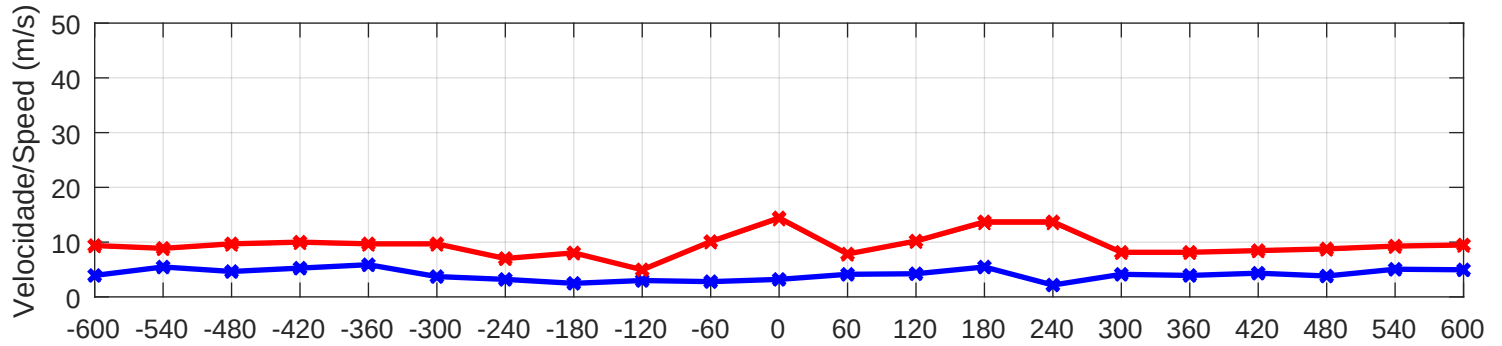
# A355/86619 EVENTO/EVENT 17 - 02/09/2010, 14:00 UTC (WRDS - DISME)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                            | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|----------------------------------------------------|----------------------------------------|---------------------------------|
| $G_{obs} = 14.0 \text{ m/s}$   | $R_{G,-6} = 1.5$ $R_{V,-6} = 1.7$ | $T_{med,3} = 25.2 \text{ }^{\circ}\text{C}$        | $DIR = 165^{\circ}$                    | SINÓTICO                        |
| $V_{obs} = 5.7 \text{ m/s}$    | $R_{G,-3} = 1.2$ $R_{V,-3} = 1.4$ | $\Delta T_{min,3} = -3.8 \text{ }^{\circ}\text{C}$ | $\Delta DIR_{max,-3} = 34^{\circ}$     | SYNOPTIC                        |
| $G_V = 2.5$                    | $R_{G,+3} = 1.4$ $R_{V,+3} = 1.1$ | $\Delta P_{max,3} = 0.9 \text{ hPa}$               | $\Delta DIR_{max,+3} = 39^{\circ}$     | (22)                            |
| $G_{cor} = 14.4 \text{ m/s}$   | $R_{G,+6} = 1.4$ $R_{V,+6} = 1.1$ | $\Delta$ Grupo/Group = 3                           |                                        |                                 |
| $V_{cor} = 5.9 \text{ m/s}$    |                                   |                                                    |                                        |                                 |



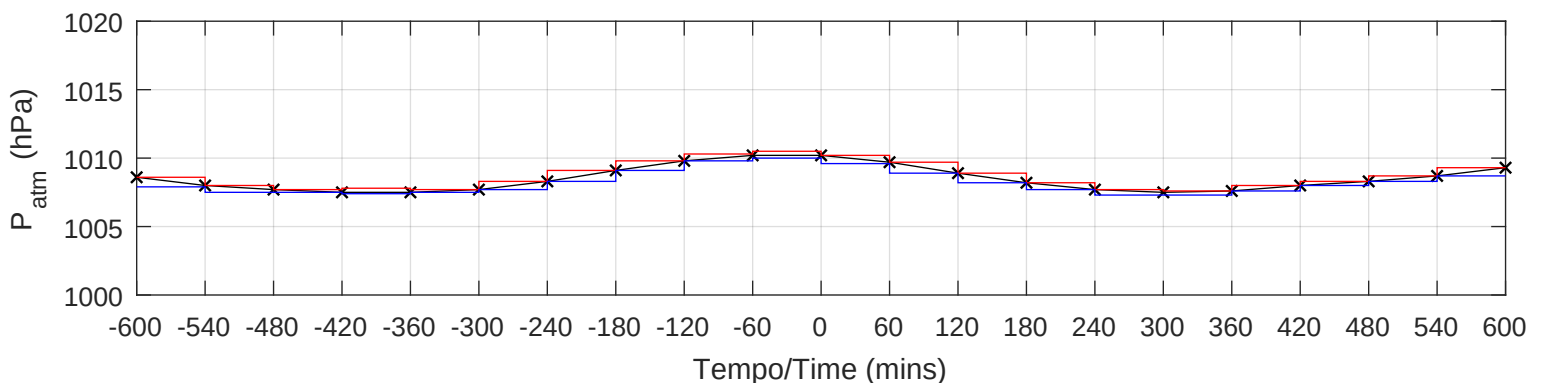
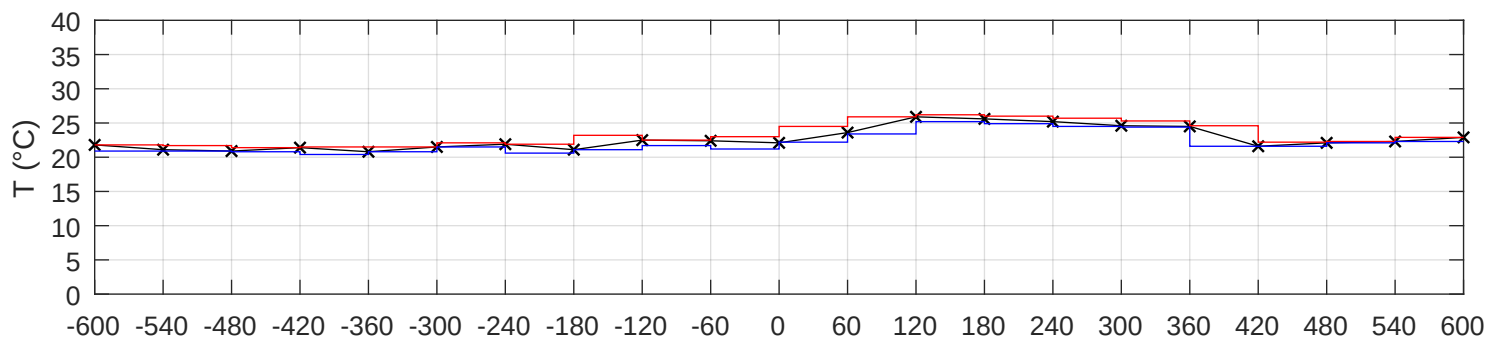
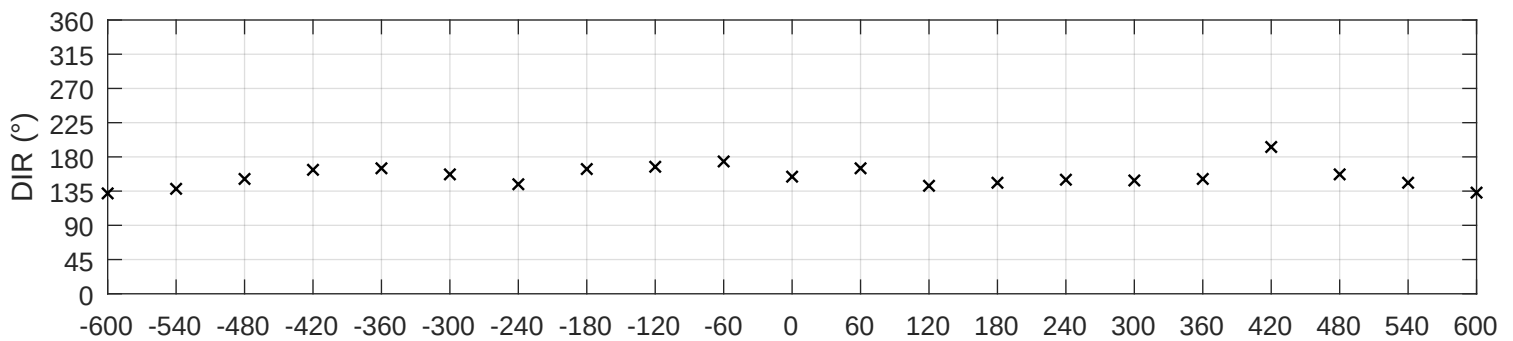
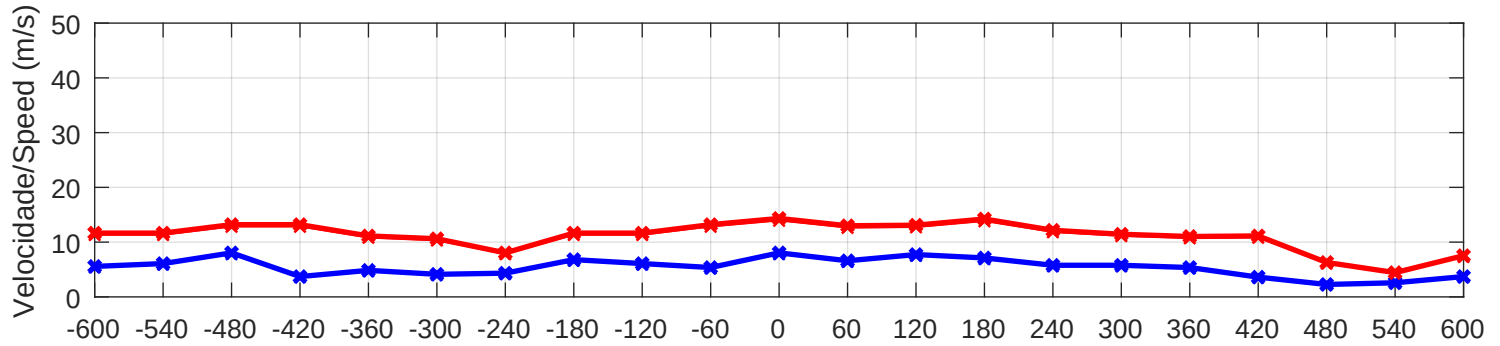
# A355/86619 EVENTO/EVENT 18 - 27/07/2017, 01:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                            | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|----------------------------------------------------|----------------------------------------|---------------------------------|
| $G_{obs} = 14.0 \text{ m/s}$   | $R_{G,-6} = 1.8$ $R_{V,-6} = 0.9$ | $T_{med,3} = 22.8 \text{ }^{\circ}\text{C}$        | $DIR = 158^{\circ}$                    | SINÓTICO                        |
| $V_{obs} = 3.1 \text{ m/s}$    | $R_{G,-3} = 1.9$ $R_{V,-3} = 1.2$ | $\Delta T_{min,3} = -2.2 \text{ }^{\circ}\text{C}$ | $\Delta DIR_{max,-3} = 7^{\circ}$      | SYNOPTIC                        |
| $G_V = 4.5$                    | $R_{G,+3} = 1.4$ $R_{V,+3} = 0.7$ | $\Delta P_{max,3} = 0.6 \text{ hPa}$               | $\Delta DIR_{max,+3} = 17^{\circ}$     | (22)                            |
| $G_{cor} = 14.4 \text{ m/s}$   | $R_{G,+6} = 1.4$ $R_{V,+6} = 0.8$ | $\Delta$ Grupo/Group = 3                           |                                        |                                 |
| $V_{cor} = 3.2 \text{ m/s}$    |                                   |                                                    |                                        |                                 |



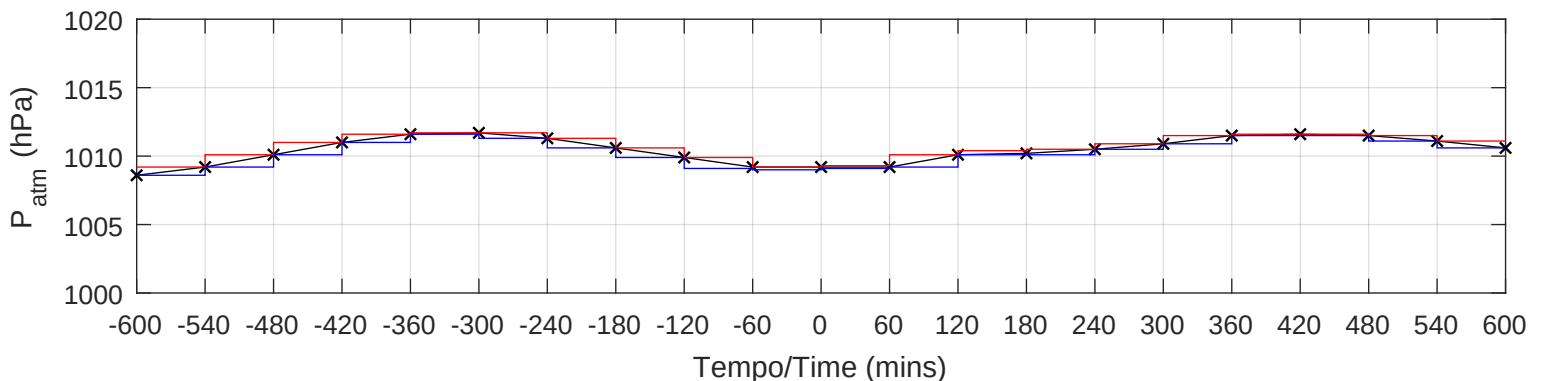
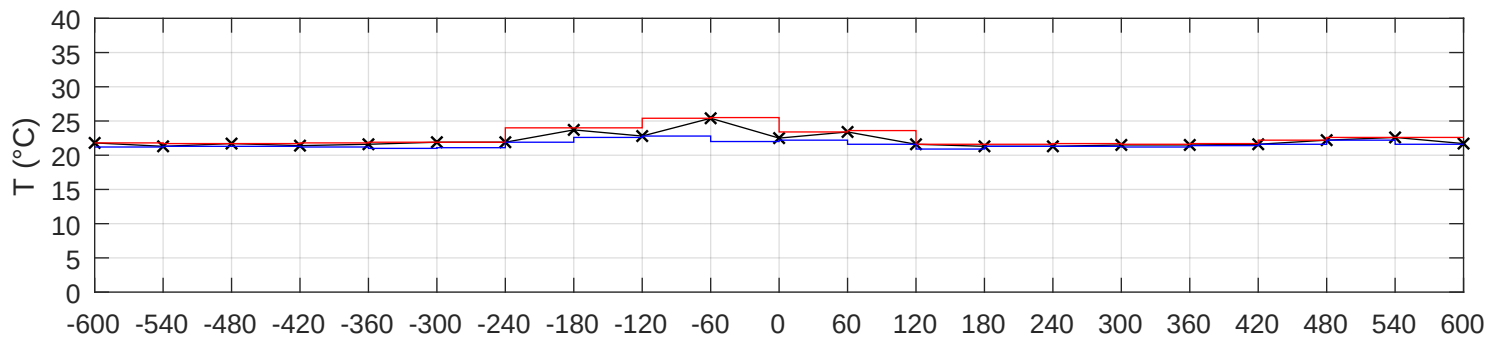
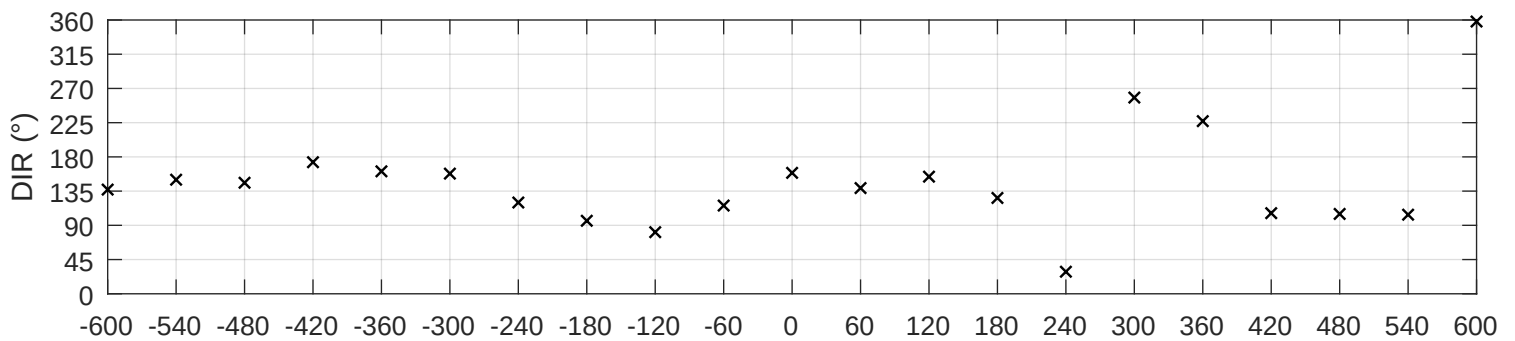
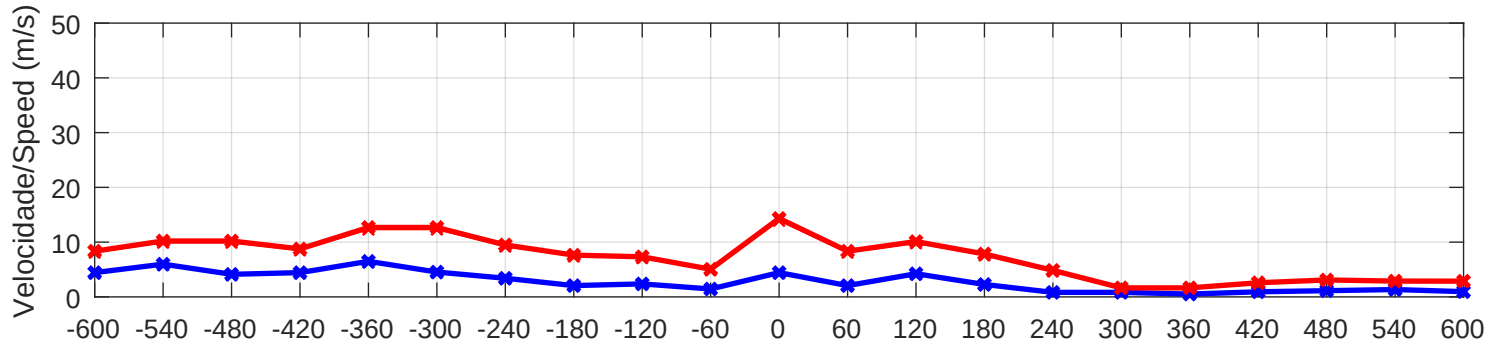
# A355/86619 EVENTO/EVENT 19 - 18/09/2011, 13:00 UTC (WRDS - DISME)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                            | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|----------------------------------------------------|----------------------------------------|---------------------------------|
| $G_{obs} = 13.9 \text{ m/s}$   | $R_{G,-6} = 1.3$ $R_{V,-6} = 1.5$ | $T_{med,3} = 22.0 \text{ }^{\circ}\text{C}$        | $DIR = 154^{\circ}$                    | SINÓTICO                        |
| $V_{obs} = 7.8 \text{ m/s}$    | $R_{G,-3} = 1.2$ $R_{V,-3} = 1.3$ | $\Delta T_{min,3} = -1.5 \text{ }^{\circ}\text{C}$ | $\Delta DIR_{max,-3} = 20^{\circ}$     | SYNOPTIC                        |
| $G_V = 1.8$                    | $R_{G,+3} = 1.1$ $R_{V,+3} = 1.1$ | $\Delta P_{max,3} = 1.2 \text{ hPa}$               | $\Delta DIR_{max,+3} = 12^{\circ}$     | (22)                            |
| $G_{cor} = 14.3 \text{ m/s}$   | $R_{G,+6} = 1.1$ $R_{V,+6} = 1.3$ | $\Delta$ Grupo/Group = 3                           |                                        |                                 |
| $V_{cor} = 8.0 \text{ m/s}$    |                                   |                                                    |                                        |                                 |



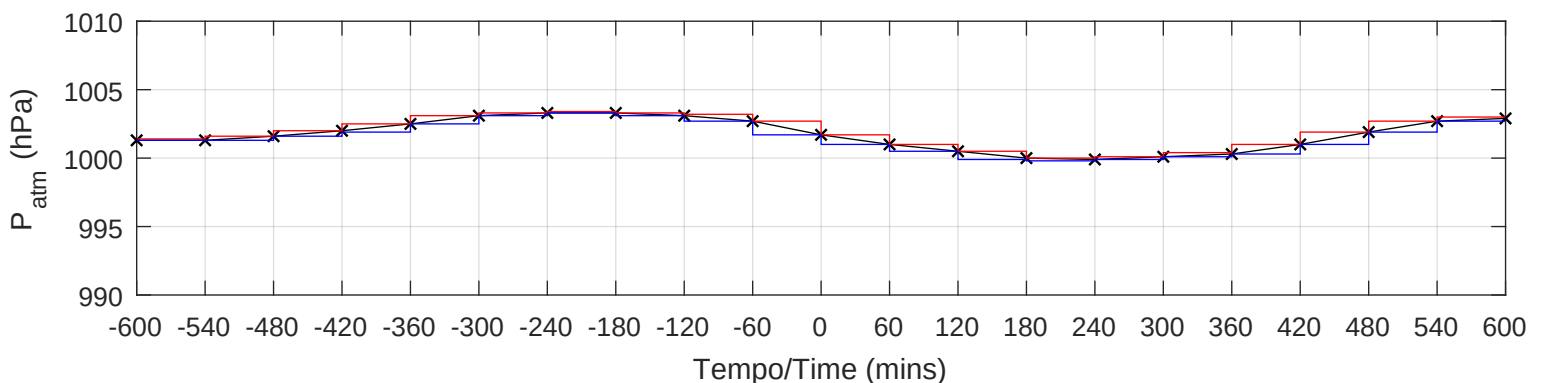
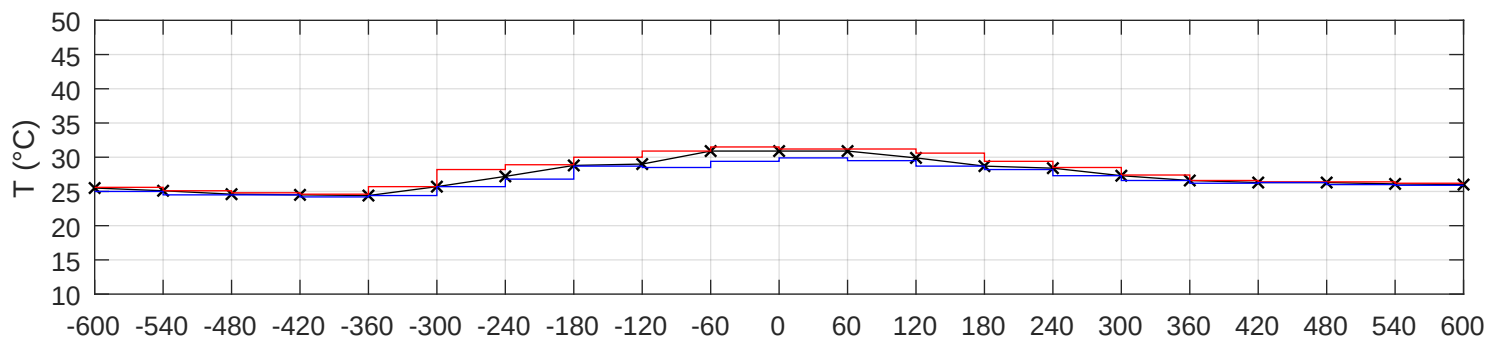
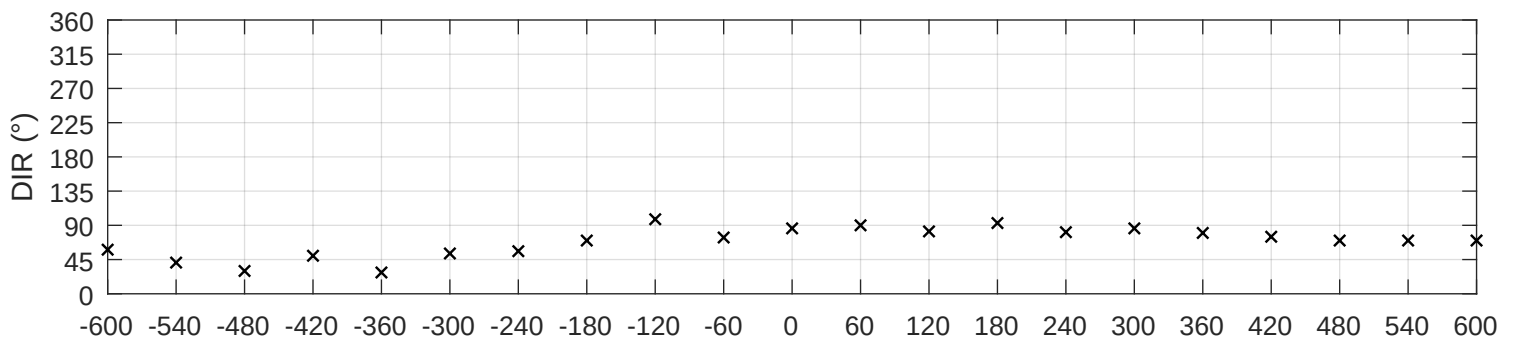
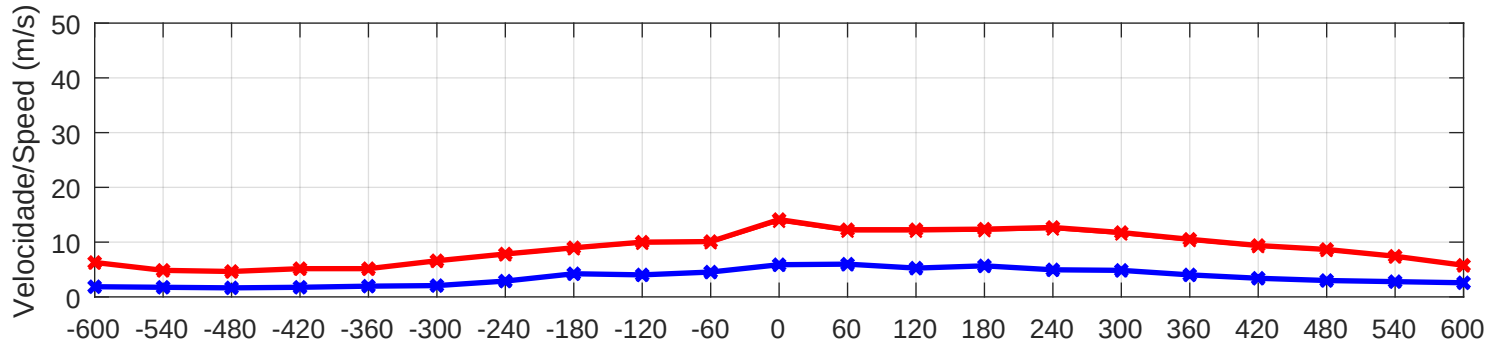
# A355/86619 EVENTO/EVENT 20 - 23/07/2017, 18:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                            | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|----------------------------------------------------|----------------------------------------|---------------------------------|
| $G_{obs} = 13.9 \text{ m/s}$   | $R_{G,-6} = 1.6$ $R_{V,-6} = 1.3$ | $T_{med,3} = 24.0 \text{ }^{\circ}\text{C}$        | $DIR = 159^{\circ}$                    | SINÓTICO                        |
| $V_{obs} = 4.3 \text{ m/s}$    | $R_{G,-3} = 2.1$ $R_{V,-3} = 2.3$ | $\Delta T_{min,3} = -3.4 \text{ }^{\circ}\text{C}$ | $\Delta DIR_{max,-3} = 78^{\circ}$     | SYNOPTIC                        |
| $G_V = 3.2$                    | $R_{G,+3} = 1.6$ $R_{V,+3} = 1.6$ | $\Delta P_{max,3} = 0.3 \text{ hPa}$               | $\Delta DIR_{max,+3} = 33^{\circ}$     | (22)                            |
| $G_{cor} = 14.3 \text{ m/s}$   | $R_{G,+6} = 2.5$ $R_{V,+6} = 2.5$ | $\Delta \text{ Grupo/Group} = 3$                   |                                        |                                 |
| $V_{cor} = 4.4 \text{ m/s}$    |                                   |                                                    |                                        |                                 |



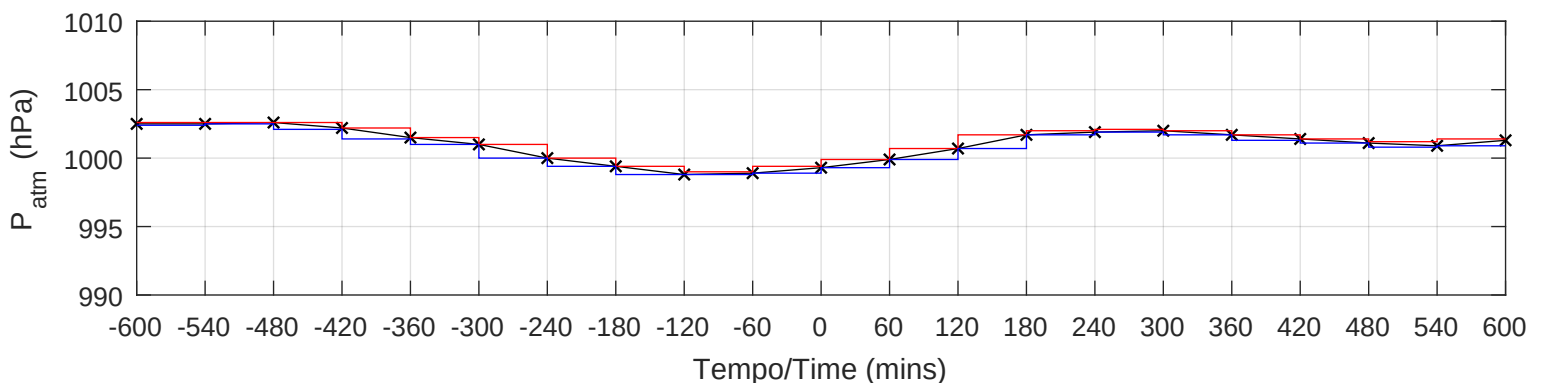
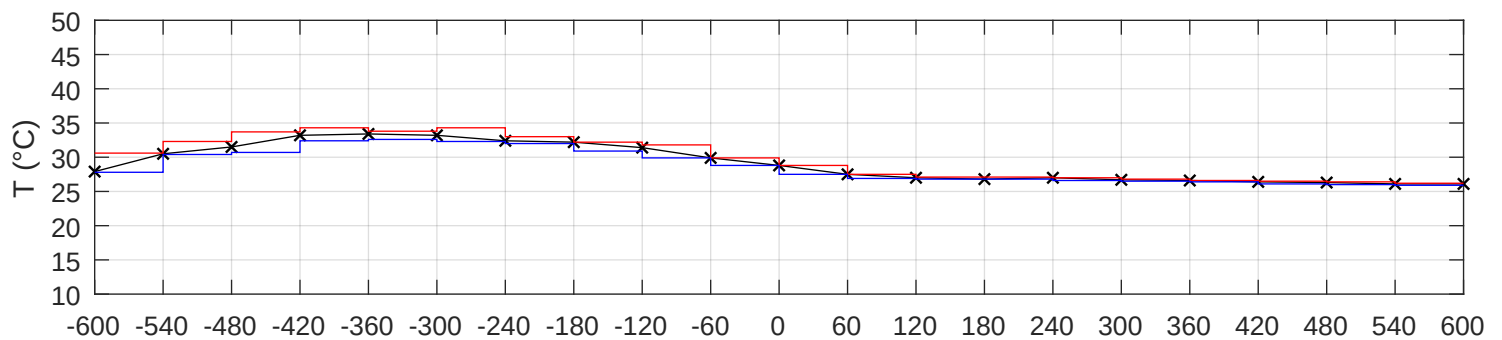
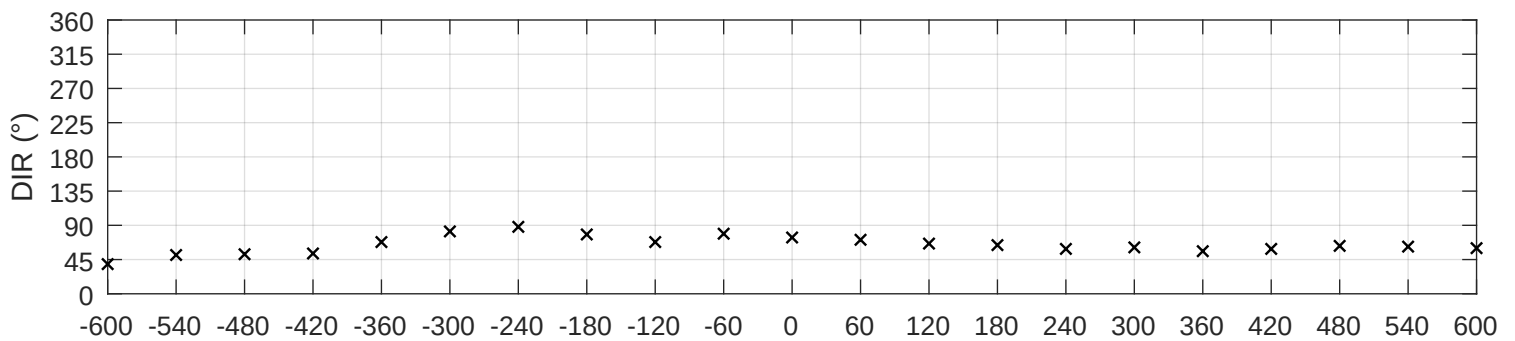
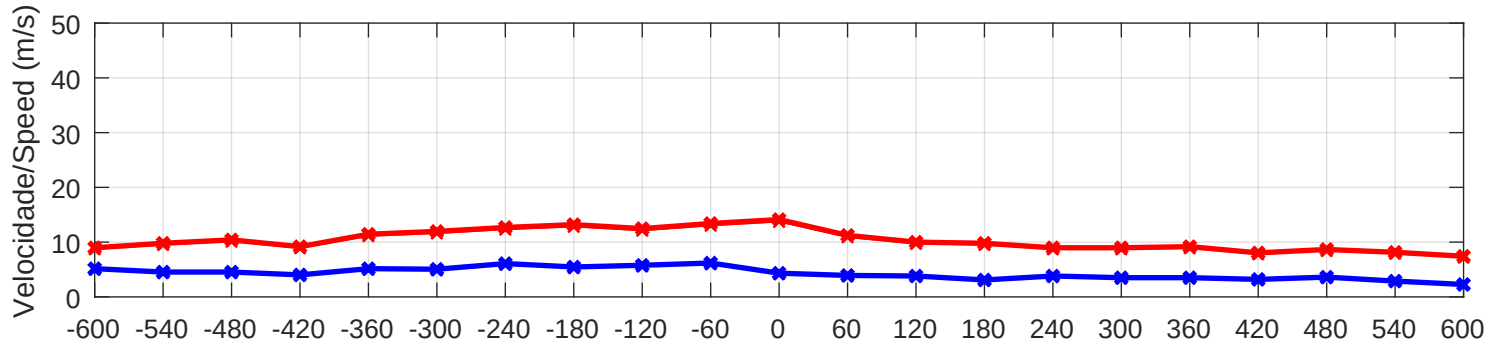
# A355/86619 EVENTO/EVENT 21 - 12/11/2016, 15:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                            | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|----------------------------------------------------|----------------------------------------|---------------------------------|
| $G_{obs} = 13.7 \text{ m/s}$   | $R_{G,-6} = 1.7$ $R_{V,-6} = 1.8$ | $T_{med,3} = 29.6 \text{ }^{\circ}\text{C}$        | $DIR = 86^{\circ}$                     | SINÓTICO                        |
| $V_{obs} = 5.7 \text{ m/s}$    | $R_{G,-3} = 1.5$ $R_{V,-3} = 1.4$ | $\Delta T_{min,3} = -1.6 \text{ }^{\circ}\text{C}$ | $\Delta DIR_{max,-3} = 16^{\circ}$     | SYNOPTIC                        |
| $G_V = 2.4$                    | $R_{G,+3} = 1.1$ $R_{V,+3} = 1.0$ | $\Delta P_{max,3} = 0.1 \text{ hPa}$               | $\Delta DIR_{max,+3} = 7^{\circ}$      | (22)                            |
| $G_{cor} = 14.1 \text{ m/s}$   | $R_{G,+6} = 1.2$ $R_{V,+6} = 1.1$ | $\Delta$ Grupo/Group = 3                           |                                        |                                 |
| $V_{cor} = 5.9 \text{ m/s}$    |                                   |                                                    |                                        |                                 |



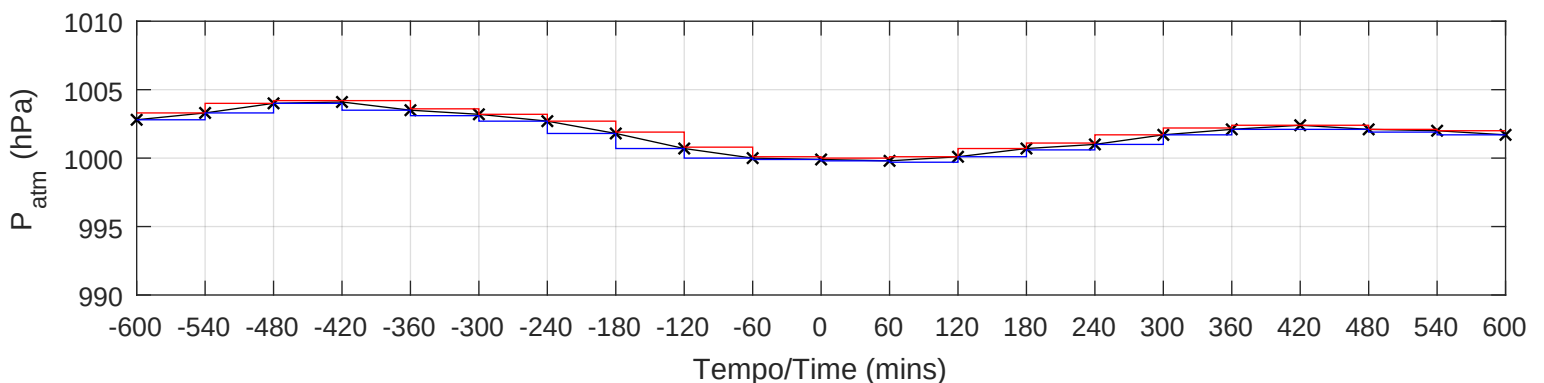
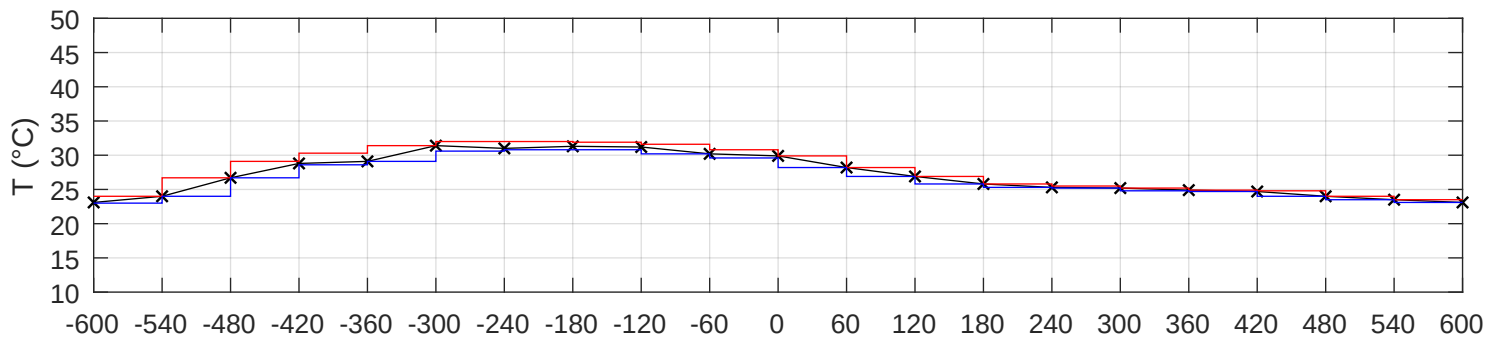
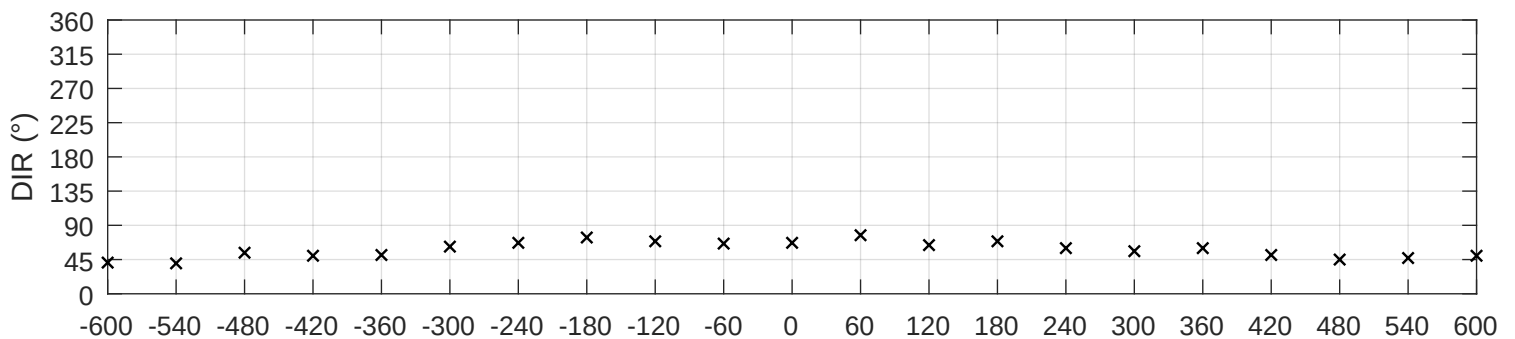
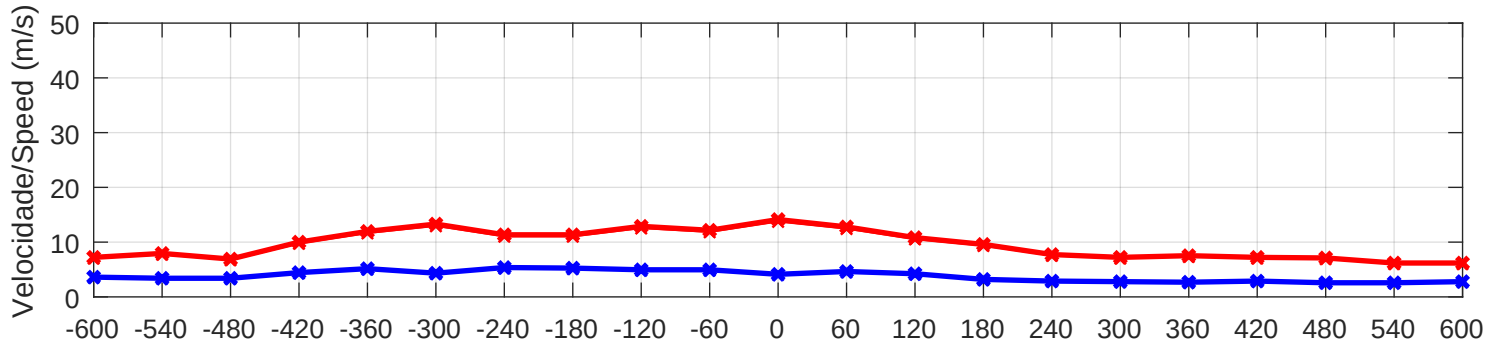
# A355/86619 EVENTO/EVENT 22 - 12/12/2016, 20:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                            | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|----------------------------------------------------|----------------------------------------|---------------------------------|
| $G_{obs} = 13.7 \text{ m/s}$   | $R_{G,-6} = 1.1$ $R_{V,-6} = 1.2$ | $T_{med,3} = 31.2 \text{ }^{\circ}\text{C}$        | $DIR = 74^{\circ}$                     | SINÓTICO                        |
| $V_{obs} = 6.0 \text{ m/s}$    | $R_{G,-3} = 1.1$ $R_{V,-3} = 1.1$ | $\Delta T_{min,3} = -3.0 \text{ }^{\circ}\text{C}$ | $\Delta DIR_{max,-3} = 6^{\circ}$      | SYNOPTIC                        |
| $G_V = 2.3$                    | $R_{G,+3} = 1.4$ $R_{V,+3} = 1.5$ | $\Delta P_{max,3} = 1.0 \text{ hPa}$               | $\Delta DIR_{max,+3} = 10^{\circ}$     | (22)                            |
| $G_{cor} = 14.1 \text{ m/s}$   | $R_{G,+6} = 1.5$ $R_{V,+6} = 1.7$ | $\Delta \text{ Grupo/Group} = 3$                   |                                        |                                 |
| $V_{cor} = 6.2 \text{ m/s}$    |                                   |                                                    |                                        |                                 |



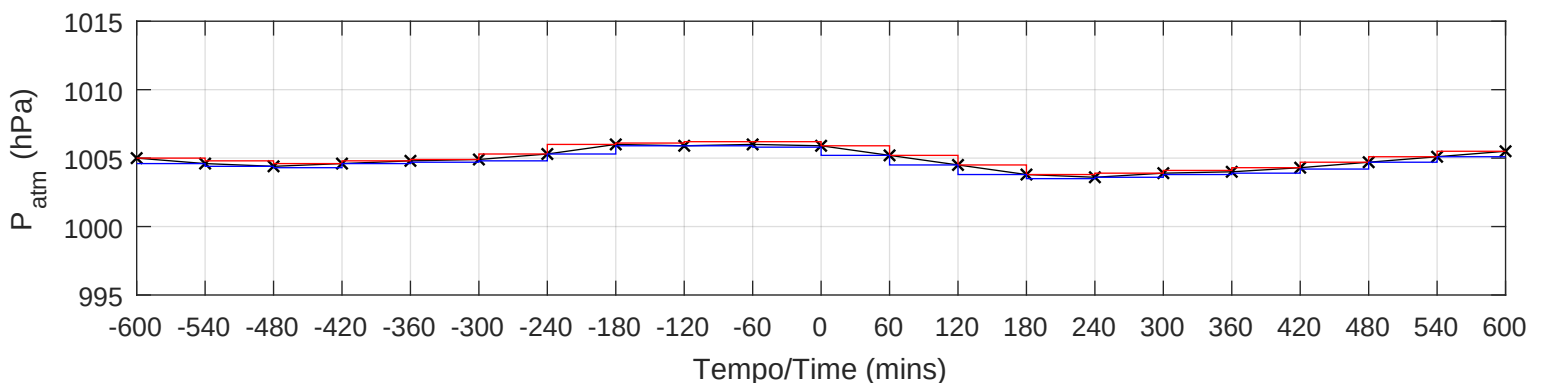
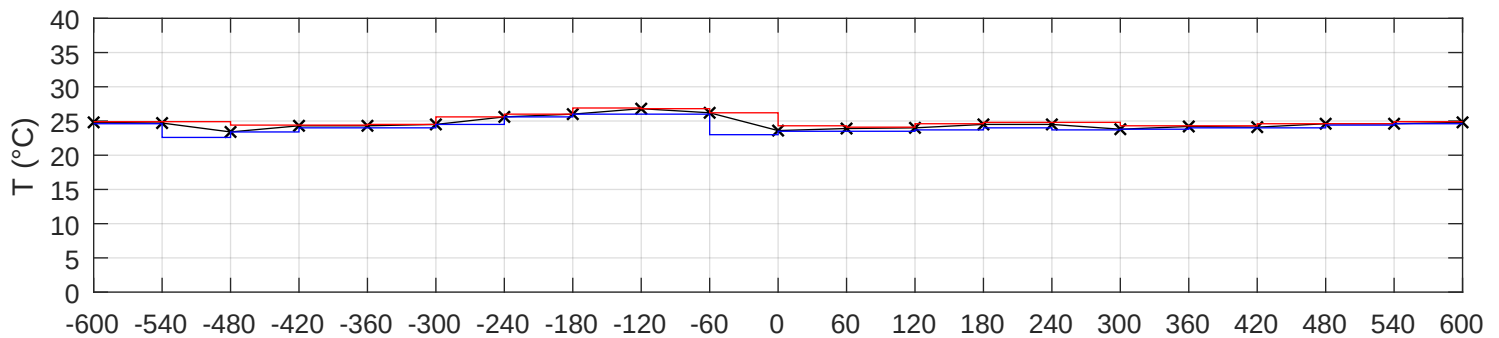
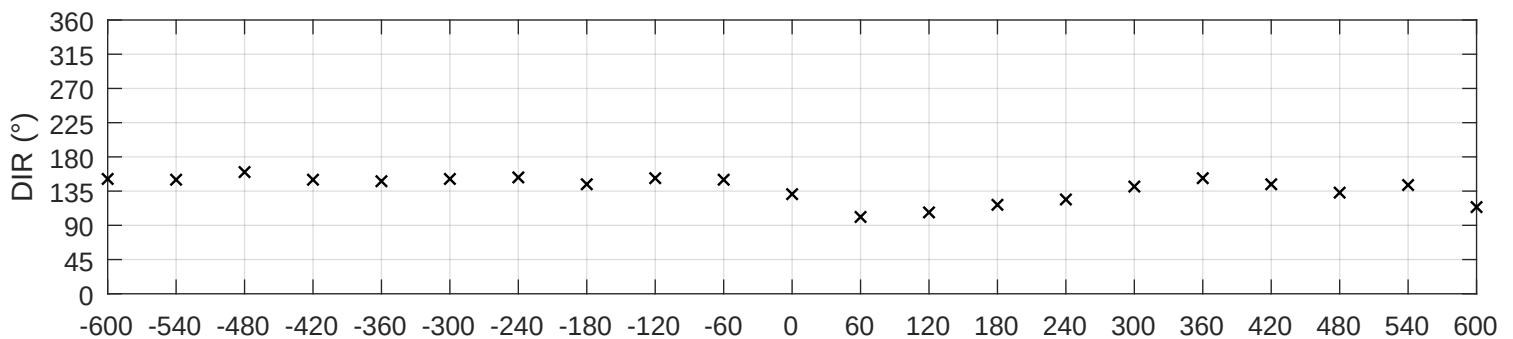
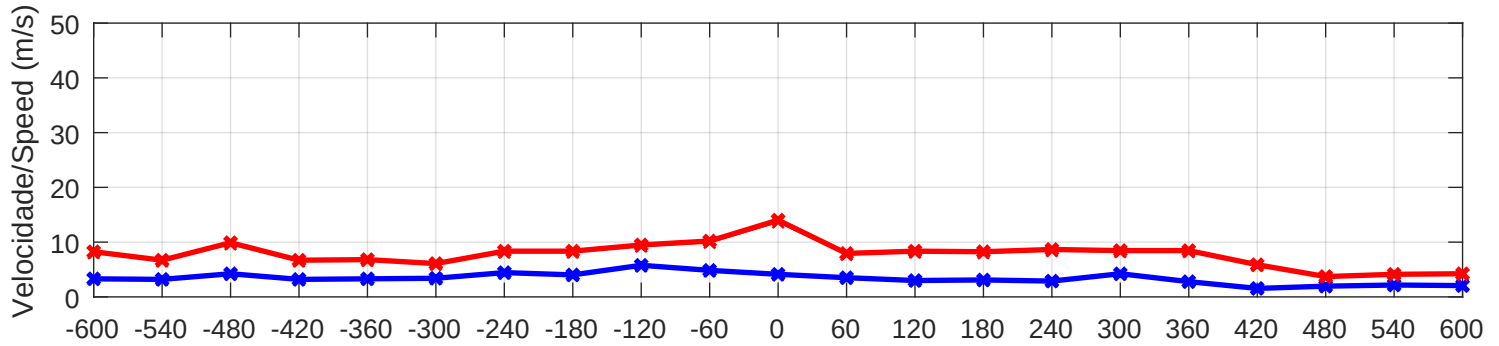
# A355/86619 EVENTO/EVENT 23 - 27/10/2018, 18:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                            | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|----------------------------------------------------|----------------------------------------|---------------------------------|
| $G_{obs} = 13.7 \text{ m/s}$   | $R_{G,-6} = 1.2$ $R_{V,-6} = 1.0$ | $T_{med,3} = 30.9 \text{ }^{\circ}\text{C}$        | $DIR = 67^{\circ}$                     | SINÓTICO                        |
| $V_{obs} = 4.8 \text{ m/s}$    | $R_{G,-3} = 1.2$ $R_{V,-3} = 1.0$ | $\Delta T_{min,3} = -2.6 \text{ }^{\circ}\text{C}$ | $\Delta DIR_{max,-3} = 7^{\circ}$      | SYNOPTIC                        |
| $G_V = 2.9$                    | $R_{G,+3} = 1.3$ $R_{V,+3} = 1.1$ | $\Delta P_{max,3} = 0.1 \text{ hPa}$               | $\Delta DIR_{max,+3} = 10^{\circ}$     | (22)                            |
| $G_{cor} = 14.1 \text{ m/s}$   | $R_{G,+6} = 1.5$ $R_{V,+6} = 1.4$ | $\Delta$ Grupo/Group = 3                           |                                        |                                 |
| $V_{cor} = 4.9 \text{ m/s}$    |                                   |                                                    |                                        |                                 |



# A355/86619 EVENTO/EVENT 24 - 18/06/2010, 14:00 UTC (WRDS - DISME)

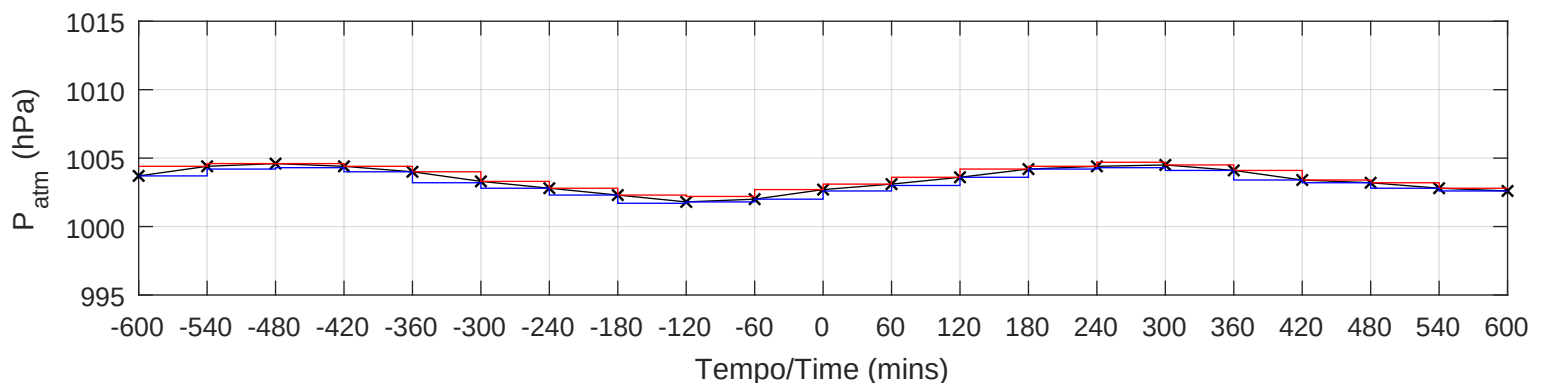
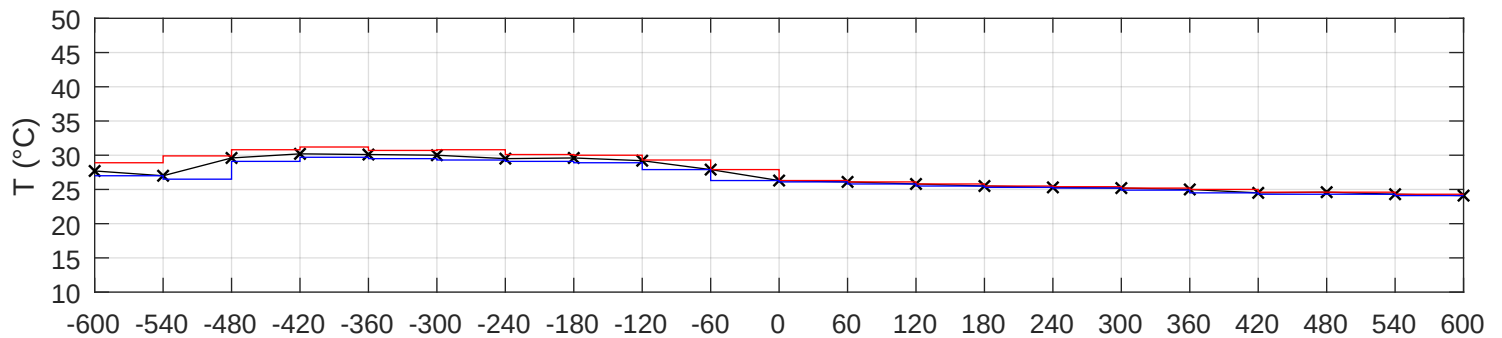
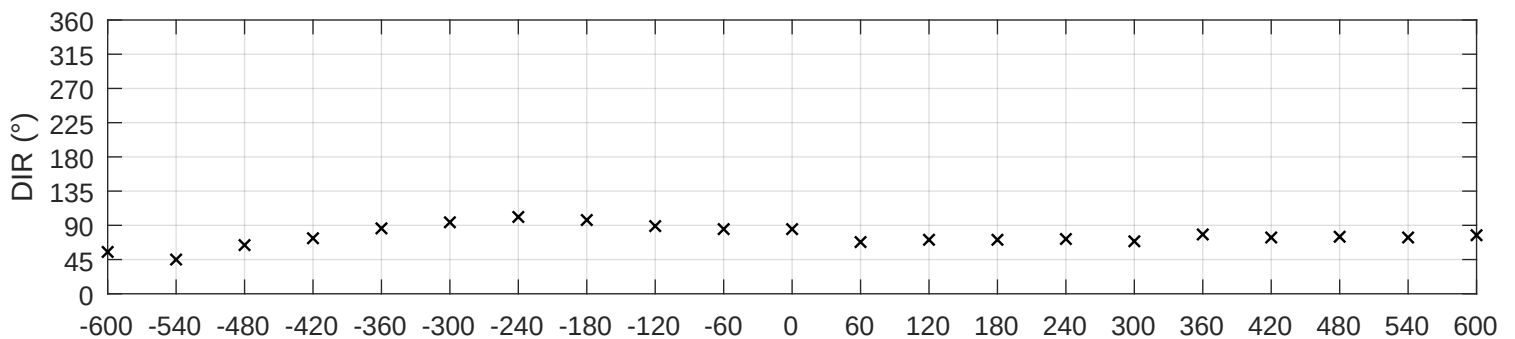
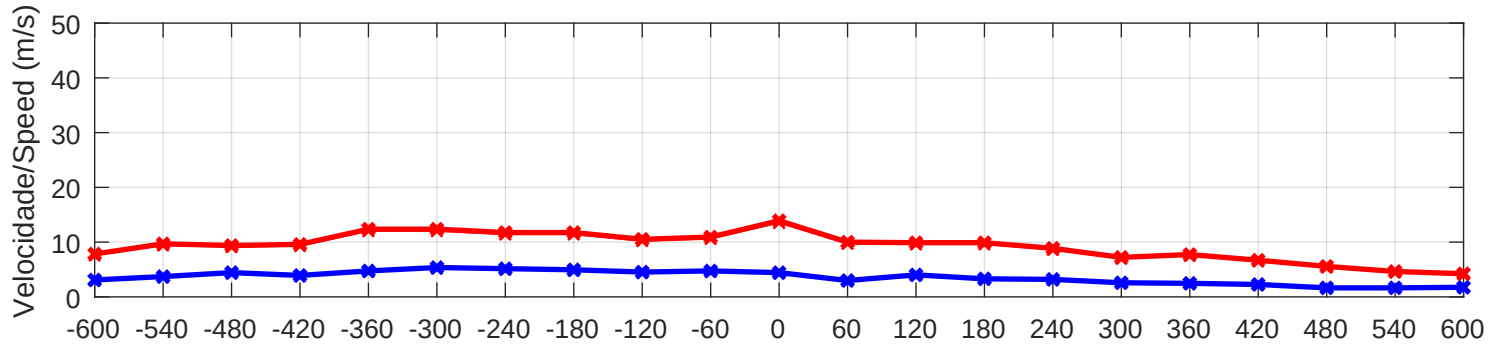
| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                            | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|----------------------------------------------------|----------------------------------------|---------------------------------|
| $G_{obs} = 13.6 \text{ m/s}$   | $R_{G,-6} = 1.7$ $R_{V,-6} = 1.2$ | $T_{med,3} = 26.3 \text{ }^{\circ}\text{C}$        | $DIR = 131^{\circ}$                    | SINÓTICO                        |
| $V_{obs} = 4.7 \text{ m/s}$    | $R_{G,-3} = 1.5$ $R_{V,-3} = 1.0$ | $\Delta T_{min,3} = -3.8 \text{ }^{\circ}\text{C}$ | $\Delta DIR_{max,-3} = 21^{\circ}$     | SYNOPTIC                        |
| $G_V = 2.9$                    | $R_{G,+3} = 1.7$ $R_{V,+3} = 1.4$ | $\Delta P_{max,3} = 0.3 \text{ hPa}$               | $\Delta DIR_{max,+3} = 30^{\circ}$     | (22)                            |
| $G_{cor} = 14.0 \text{ m/s}$   | $R_{G,+6} = 1.7$ $R_{V,+6} = 1.4$ | $\Delta$ Grupo/Group = 3                           |                                        |                                 |
| $V_{cor} = 4.8 \text{ m/s}$    |                                   |                                                    |                                        |                                 |





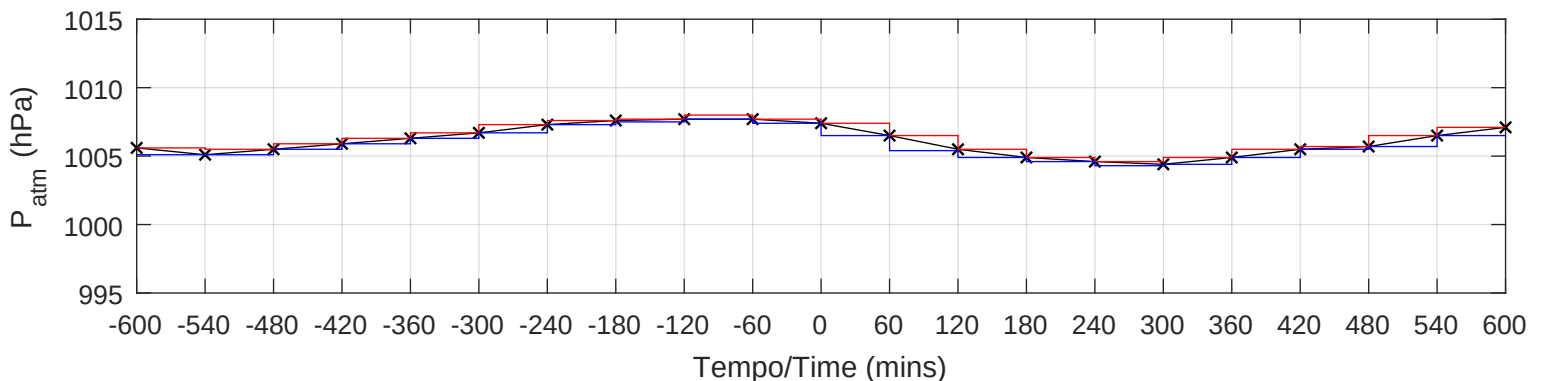
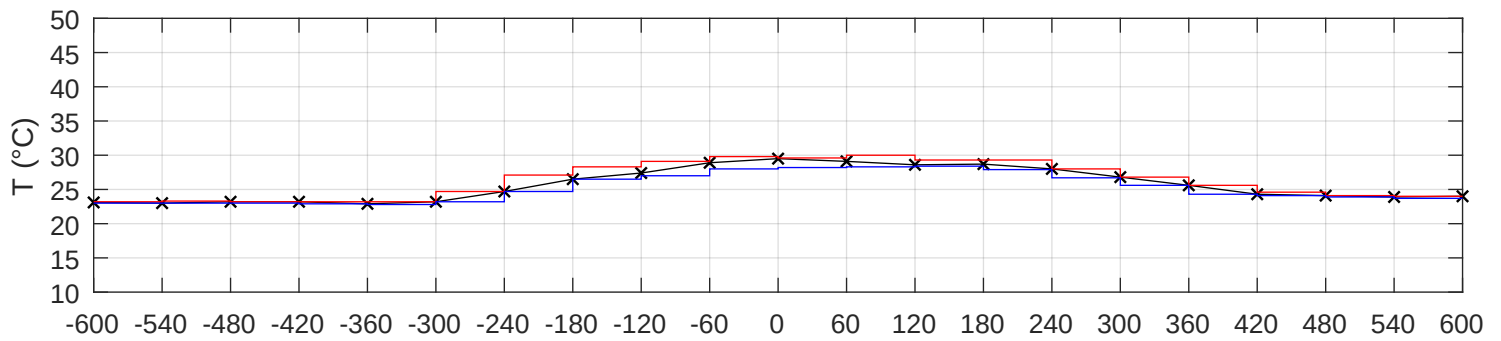
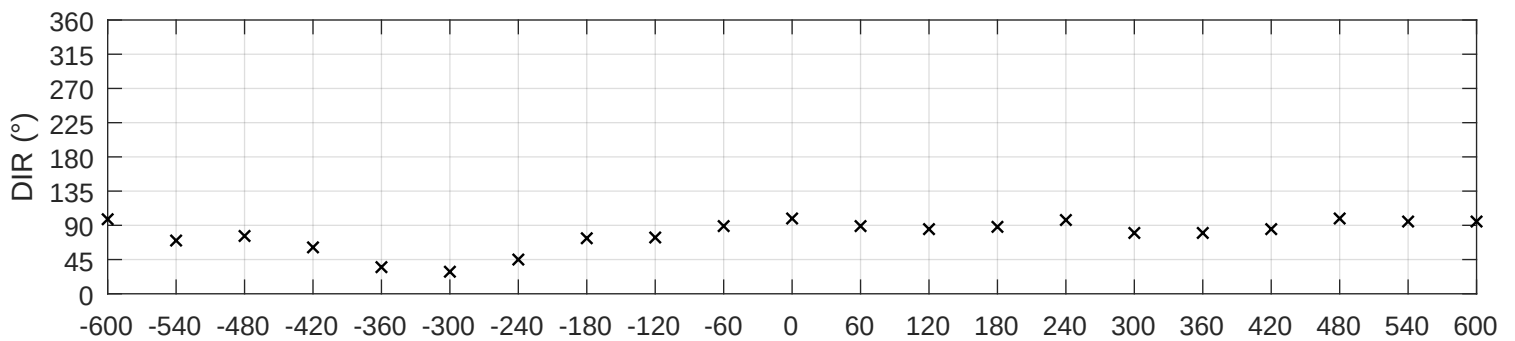
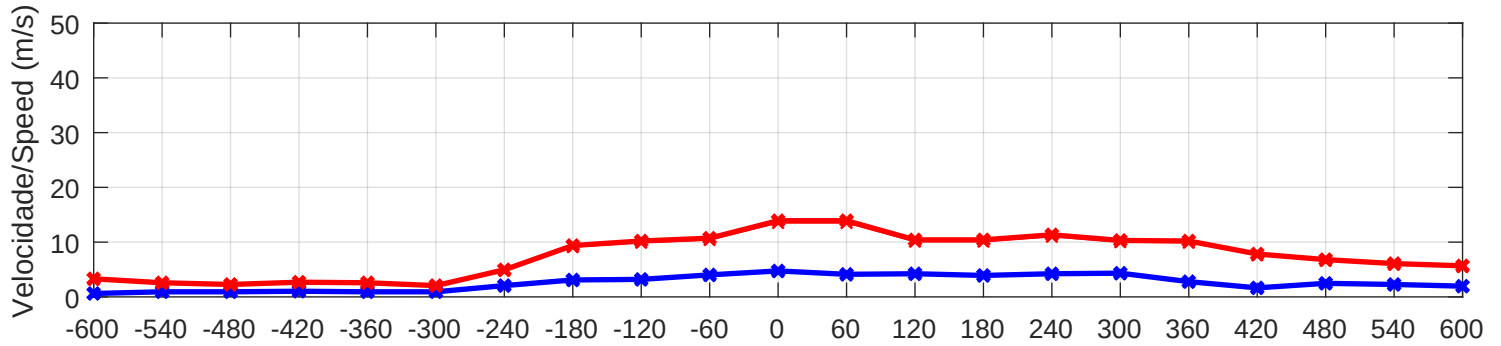
# A355/86619 EVENTO/EVENT 25 - 25/11/2008, 20:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                            | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|----------------------------------------------------|----------------------------------------|---------------------------------|
| $G_{obs} = 13.5 \text{ m/s}$   | $R_{G,-6} = 1.2$ $R_{V,-6} = 1.0$ | $T_{med,3} = 28.9 \text{ }^{\circ}\text{C}$        | $DIR = 85^{\circ}$                     | SINÓTICO                        |
| $V_{obs} = 4.6 \text{ m/s}$    | $R_{G,-3} = 1.3$ $R_{V,-3} = 1.0$ | $\Delta T_{min,3} = -3.0 \text{ }^{\circ}\text{C}$ | $\Delta DIR_{max,-3} = 12^{\circ}$     | SYNOPTIC                        |
| $G_V = 2.9$                    | $R_{G,+3} = 1.4$ $R_{V,+3} = 1.2$ | $\Delta P_{max,3} = 1.1 \text{ hPa}$               | $\Delta DIR_{max,+3} = 17^{\circ}$     | (22)                            |
| $G_{cor} = 13.9 \text{ m/s}$   | $R_{G,+6} = 1.6$ $R_{V,+6} = 1.4$ | $\Delta \text{ Grupo/Group} = 3$                   |                                        |                                 |
| $V_{cor} = 4.7 \text{ m/s}$    |                                   |                                                    |                                        |                                 |



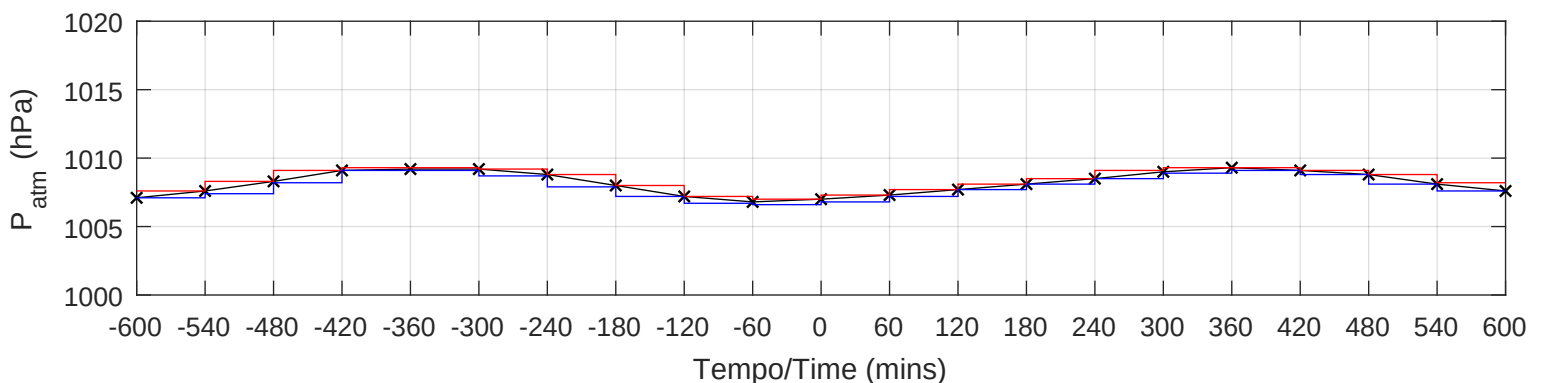
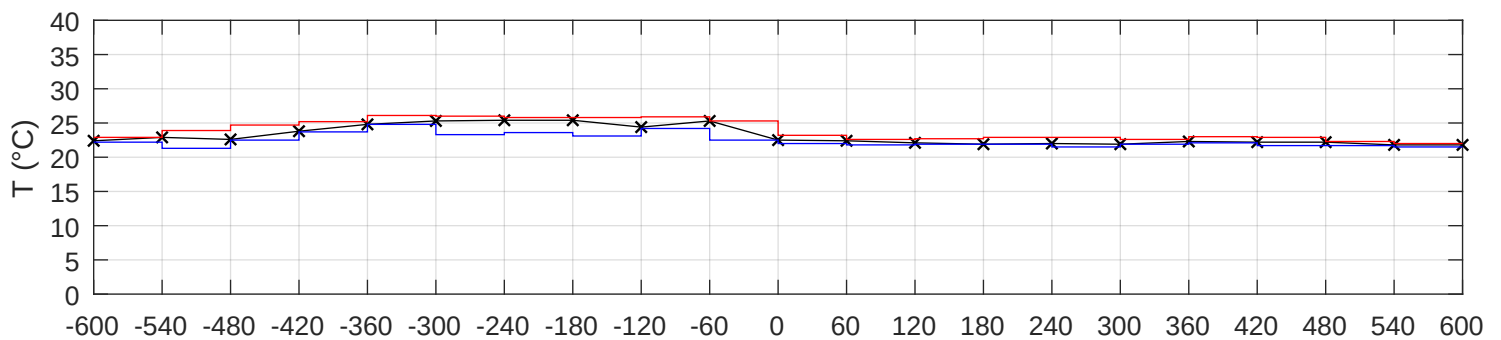
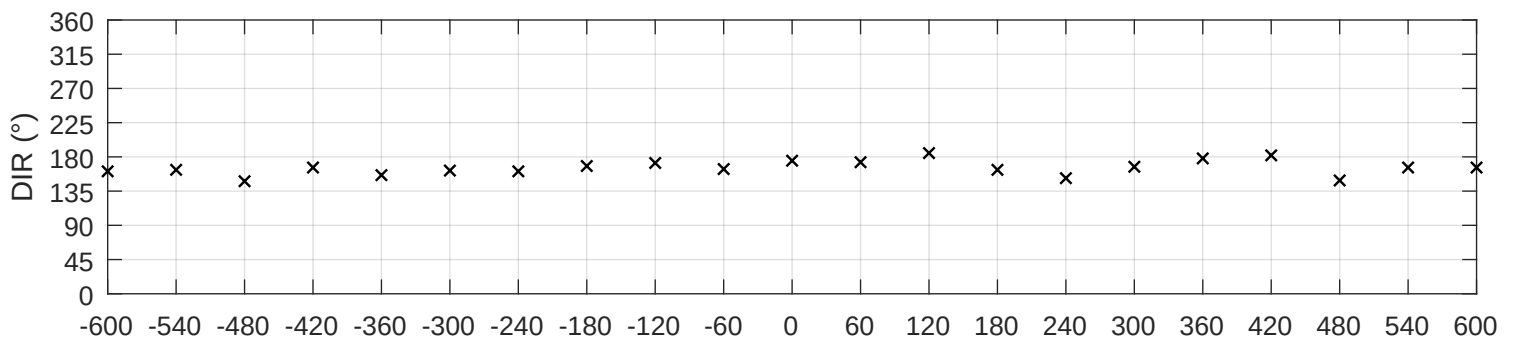
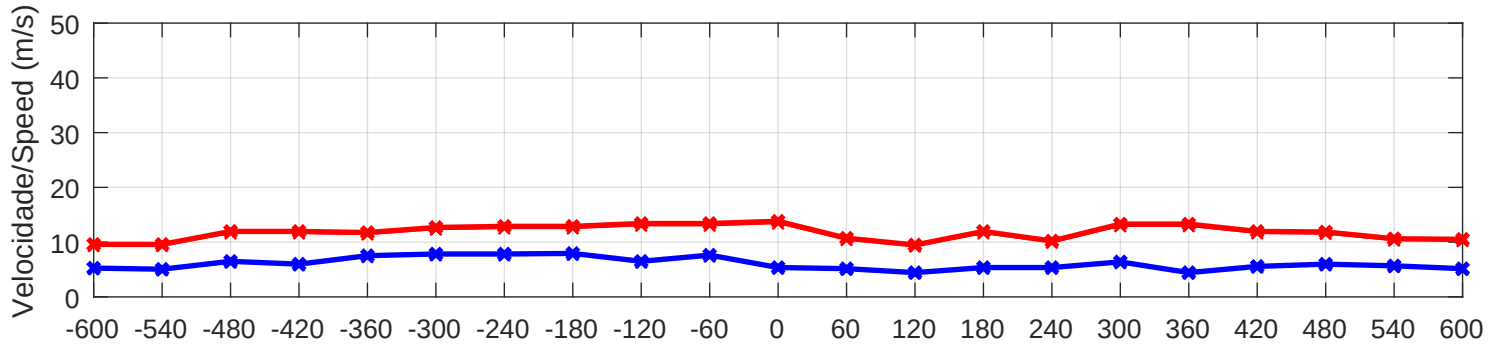
# A355/86619 EVENTO/EVENT 26 - 17/10/2012, 14:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                            | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|----------------------------------------------------|----------------------------------------|---------------------------------|
| $G_{obs} = 13.5 \text{ m/s}$   | $R_{G,-6} = 2.1$ $R_{V,-6} = 2.0$ | $T_{med,3} = 27.6 \text{ }^{\circ}\text{C}$        | $DIR = 99^{\circ}$                     | SINÓTICO                        |
| $V_{obs} = 4.6 \text{ m/s}$    | $R_{G,-3} = 1.4$ $R_{V,-3} = 1.4$ | $\Delta T_{min,3} = -1.6 \text{ }^{\circ}\text{C}$ | $\Delta DIR_{max,-3} = 26^{\circ}$     | SYNOPTIC                        |
| $G_V = 2.9$                    | $R_{G,+3} = 1.2$ $R_{V,+3} = 1.2$ | $\Delta P_{max,3} = 0.5 \text{ hPa}$               | $\Delta DIR_{max,+3} = 14^{\circ}$     | (22)                            |
| $G_{cor} = 13.9 \text{ m/s}$   | $R_{G,+6} = 1.3$ $R_{V,+6} = 1.2$ | $\Delta \text{ Grupo/Group} = 3$                   |                                        |                                 |
| $V_{cor} = 4.7 \text{ m/s}$    |                                   |                                                    |                                        |                                 |



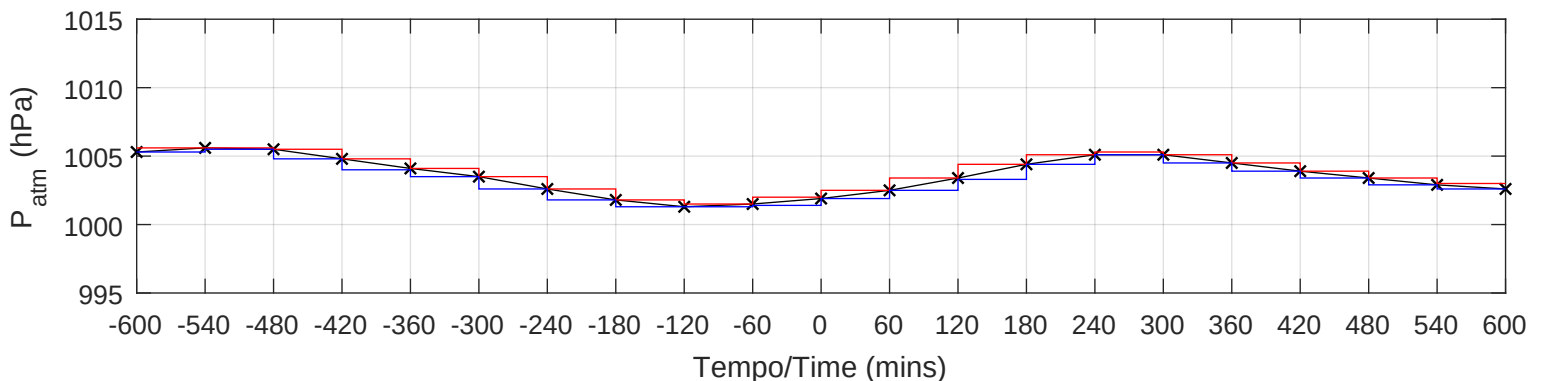
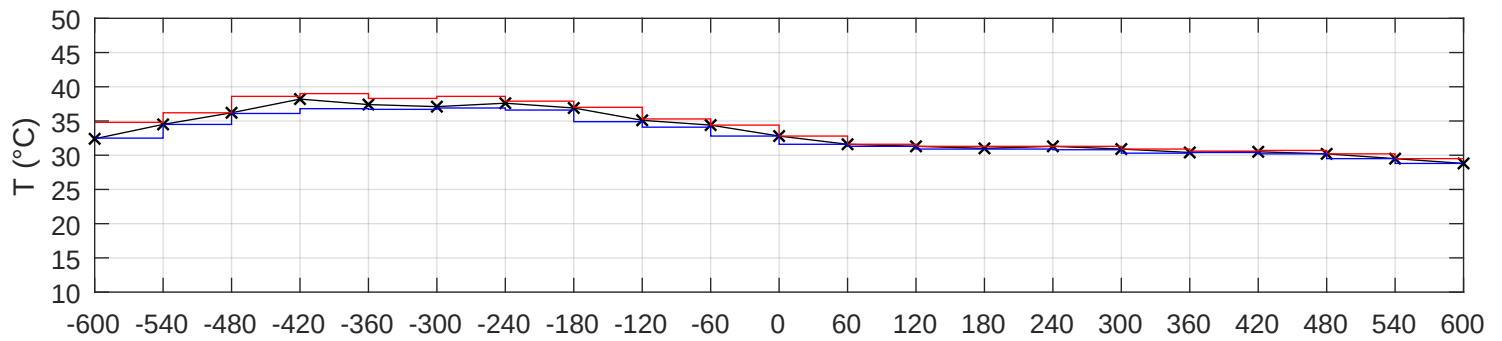
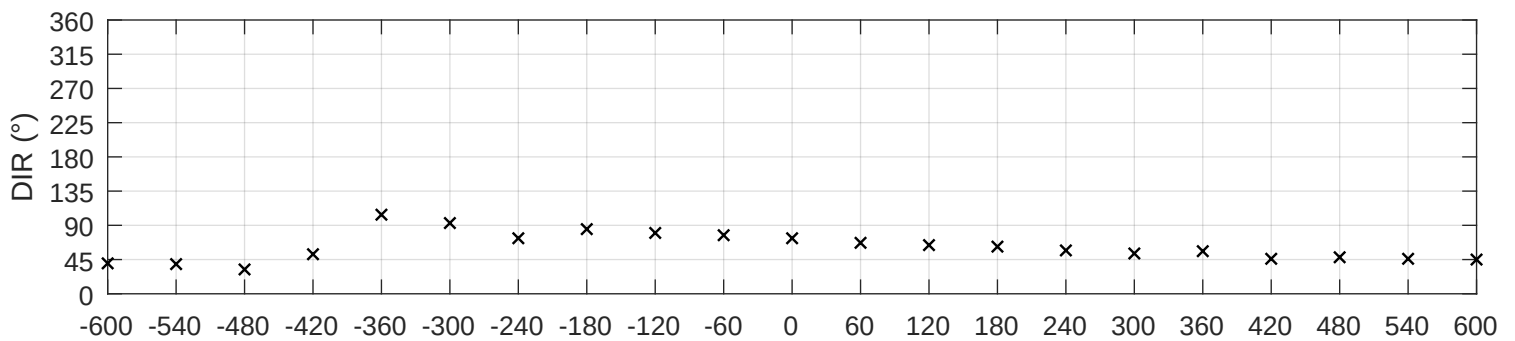
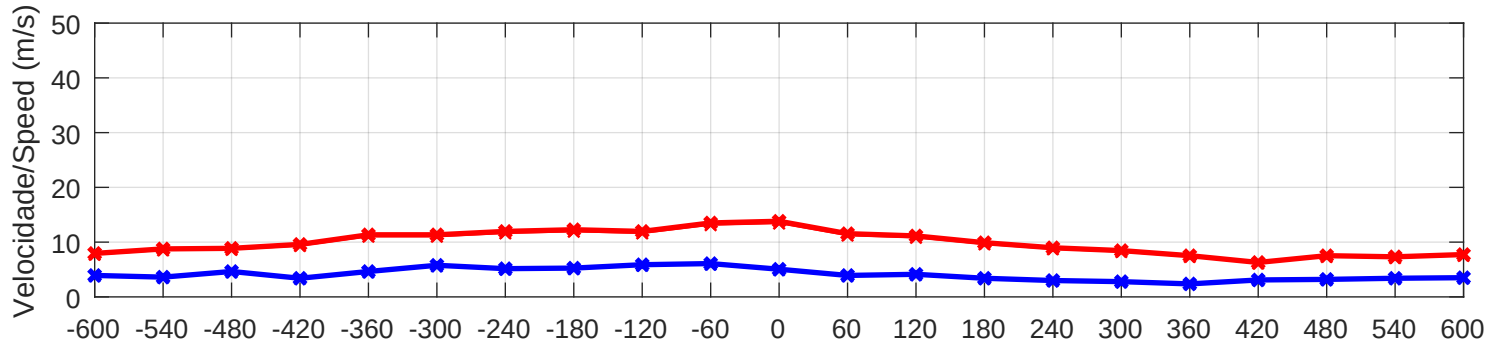
# A355/86619 EVENTO/EVENT 27 - 05/10/2014, 18:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                            | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|----------------------------------------------------|----------------------------------------|---------------------------------|
| $G_{obs} = 13.4 \text{ m/s}$   | $R_{G,-6} = 1.1$ $R_{V,-6} = 1.0$ | $T_{med,3} = 25.0 \text{ }^{\circ}\text{C}$        | $DIR = 175^{\circ}$                    | SINÓTICO                        |
| $V_{obs} = 7.4 \text{ m/s}$    | $R_{G,-3} = 1.0$ $R_{V,-3} = 1.0$ | $\Delta T_{min,3} = -3.4 \text{ }^{\circ}\text{C}$ | $\Delta DIR_{max,-3} = 11^{\circ}$     | SYNOPTIC                        |
| $G_V = 1.8$                    | $R_{G,+3} = 1.3$ $R_{V,+3} = 1.5$ | $\Delta P_{max,3} = 0.7 \text{ hPa}$               | $\Delta DIR_{max,+3} = 12^{\circ}$     | (22)                            |
| $G_{cor} = 13.8 \text{ m/s}$   | $R_{G,+6} = 1.2$ $R_{V,+6} = 1.4$ | $\Delta$ Grupo/Group = 3                           |                                        |                                 |
| $V_{cor} = 7.6 \text{ m/s}$    |                                   |                                                    |                                        |                                 |



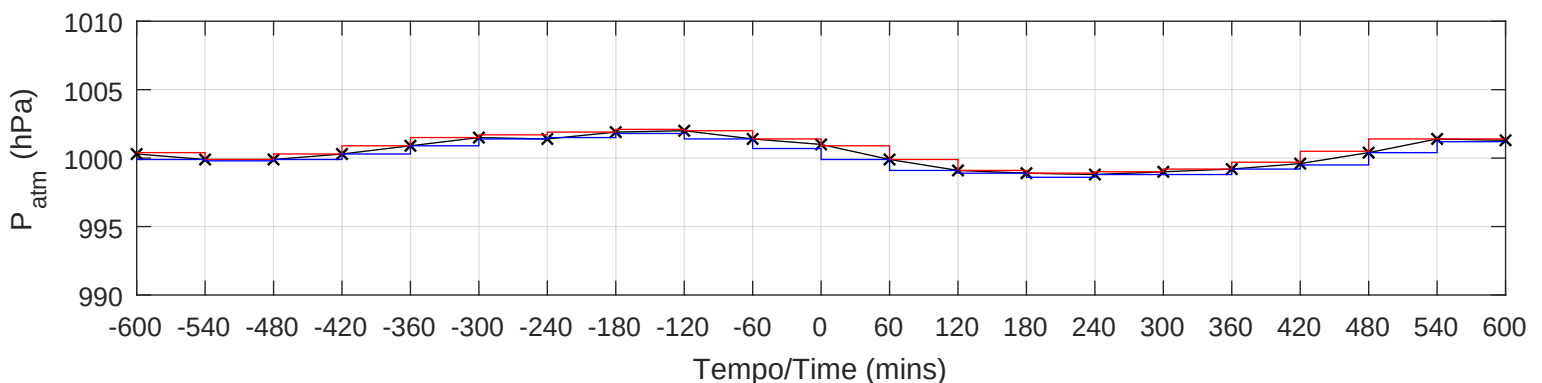
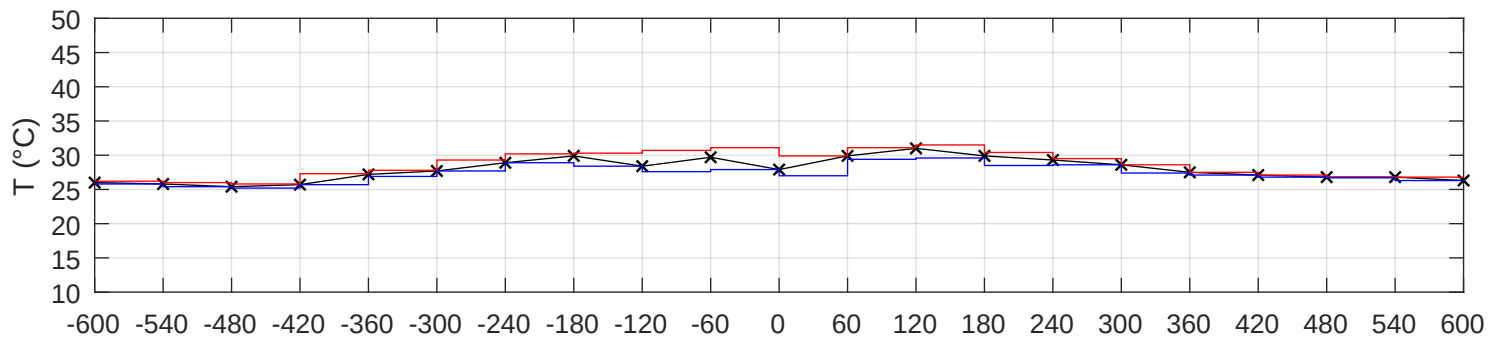
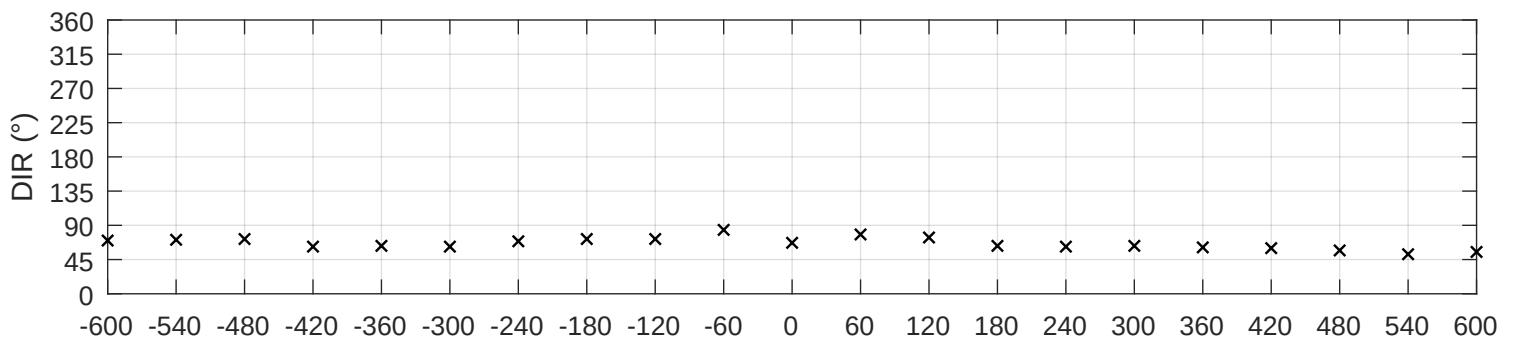
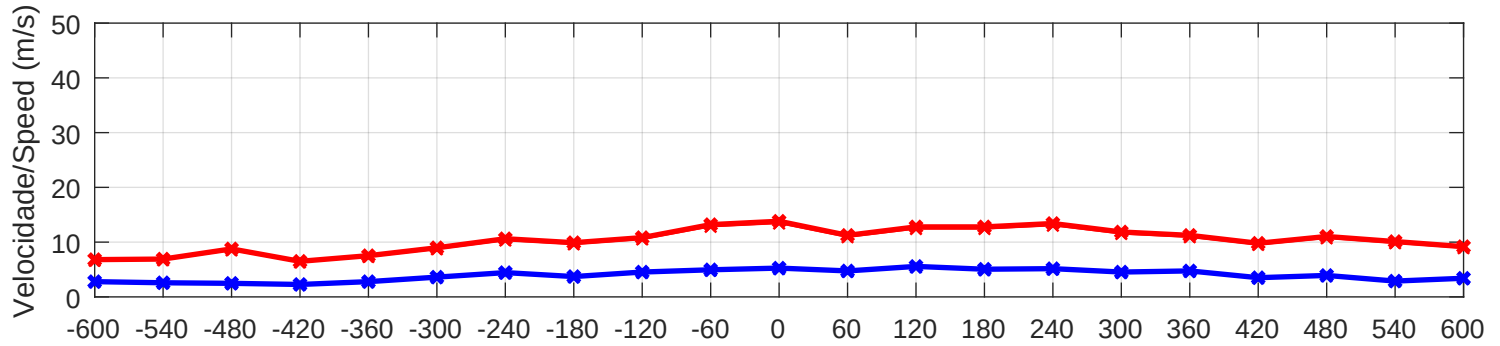
# A355/86619 EVENTO/EVENT 28 - 06/12/2015, 20:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                            | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|----------------------------------------------------|----------------------------------------|---------------------------------|
| $G_{obs} = 13.4 \text{ m/s}$   | $R_{G,-6} = 1.1$ $R_{V,-6} = 1.2$ | $T_{med,3} = 35.5 \text{ }^{\circ}\text{C}$        | $DIR = 73^{\circ}$                     | SINÓTICO                        |
| $V_{obs} = 5.9 \text{ m/s}$    | $R_{G,-3} = 1.1$ $R_{V,-3} = 1.1$ | $\Delta T_{min,3} = -2.9 \text{ }^{\circ}\text{C}$ | $\Delta DIR_{max,-3} = 12^{\circ}$     | SYNOPTIC                        |
| $G_V = 2.3$                    | $R_{G,+3} = 1.3$ $R_{V,+3} = 1.4$ | $\Delta P_{max,3} = 1.1 \text{ hPa}$               | $\Delta DIR_{max,+3} = 11^{\circ}$     | (22)                            |
| $G_{cor} = 13.8 \text{ m/s}$   | $R_{G,+6} = 1.4$ $R_{V,+6} = 1.6$ | $\Delta$ Grupo/Group = 3                           |                                        |                                 |
| $V_{cor} = 6.1 \text{ m/s}$    |                                   |                                                    |                                        |                                 |



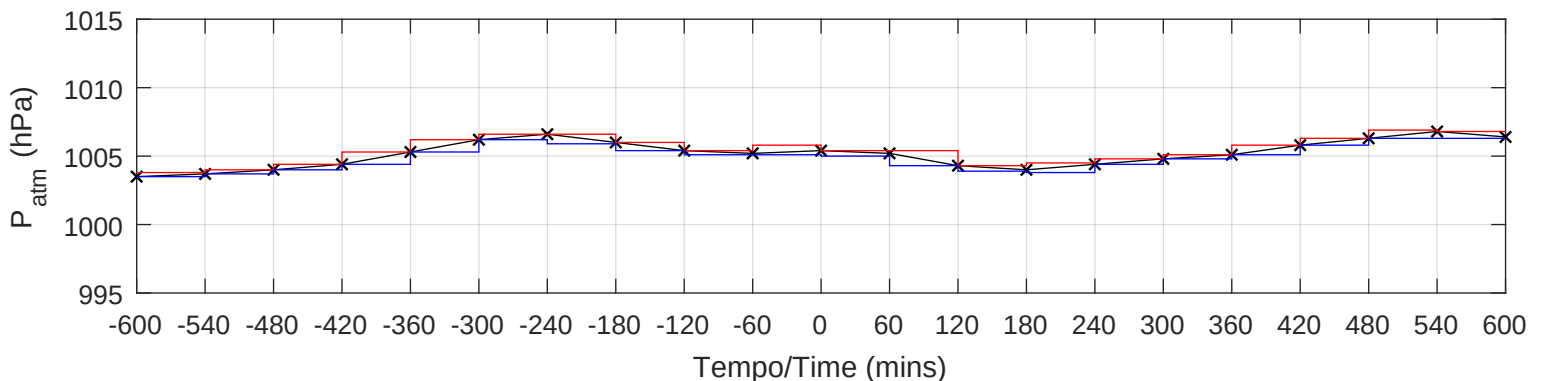
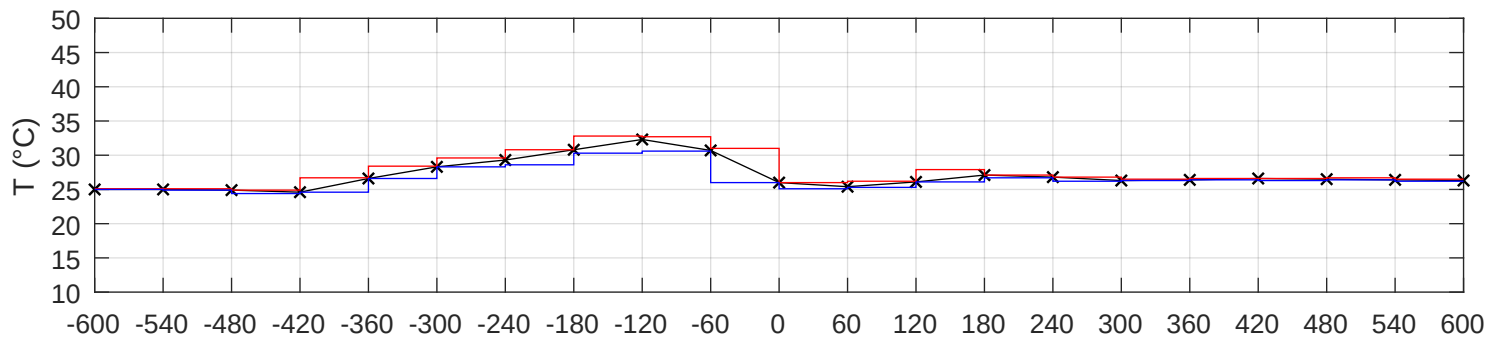
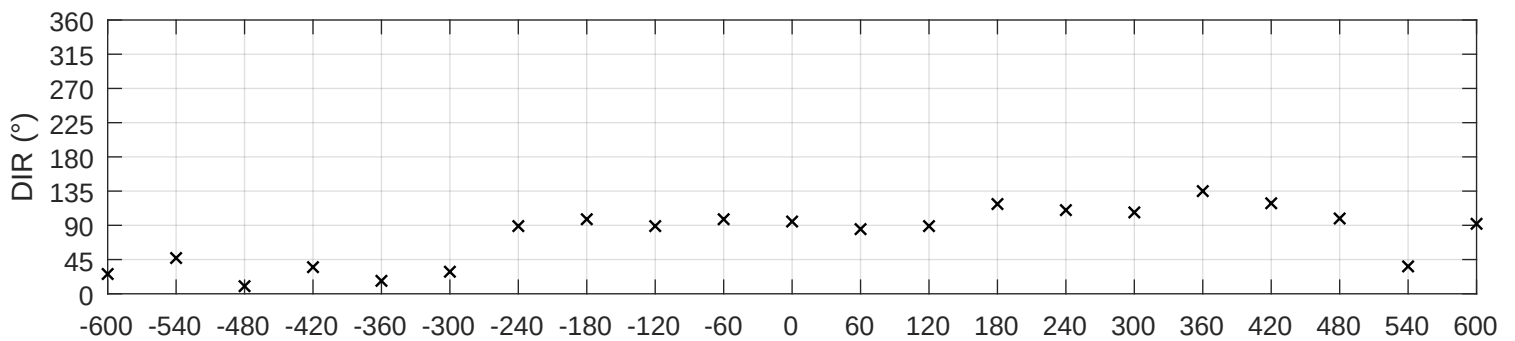
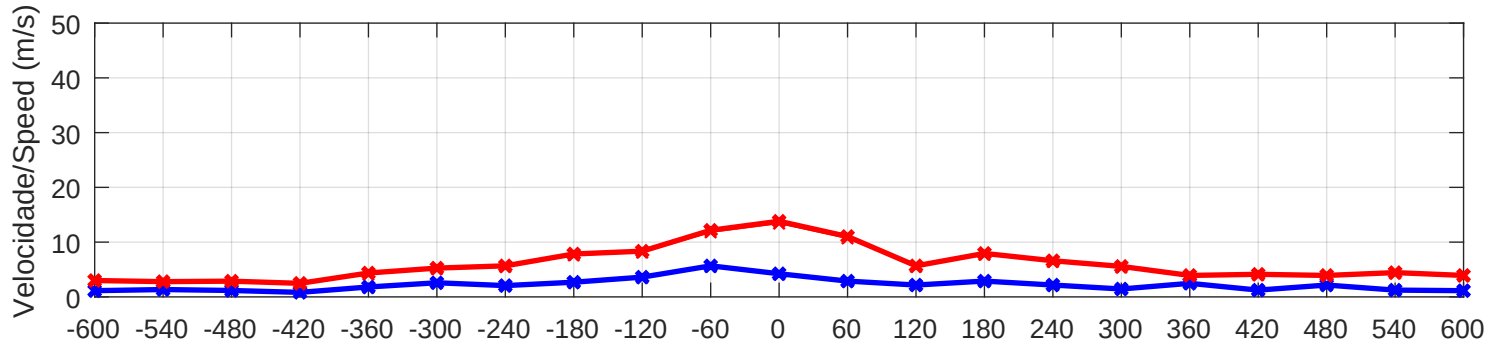
# A355/86619 EVENTO/EVENT 29 - 15/11/2016, 15:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                            | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|----------------------------------------------------|----------------------------------------|---------------------------------|
| $G_{obs} = 13.4 \text{ m/s}$   | $R_{G,-6} = 1.4$ $R_{V,-6} = 1.3$ | $T_{med,3} = 29.3 \text{ }^{\circ}\text{C}$        | $DIR = 67^{\circ}$                     | SINÓTICO                        |
| $V_{obs} = 5.1 \text{ m/s}$    | $R_{G,-3} = 1.2$ $R_{V,-3} = 1.2$ | $\Delta T_{min,3} = -4.1 \text{ }^{\circ}\text{C}$ | $\Delta DIR_{max,-3} = 17^{\circ}$     | SYNOPTIC                        |
| $G_V = 2.6$                    | $R_{G,+3} = 1.1$ $R_{V,+3} = 1.0$ | $\Delta P_{max,3} = 0.2 \text{ hPa}$               | $\Delta DIR_{max,+3} = 11^{\circ}$     | (22)                            |
| $G_{cor} = 13.8 \text{ m/s}$   | $R_{G,+6} = 1.1$ $R_{V,+6} = 1.1$ | $\Delta \text{ Grupo/Group} = 3$                   |                                        |                                 |
| $V_{cor} = 5.3 \text{ m/s}$    |                                   |                                                    |                                        |                                 |



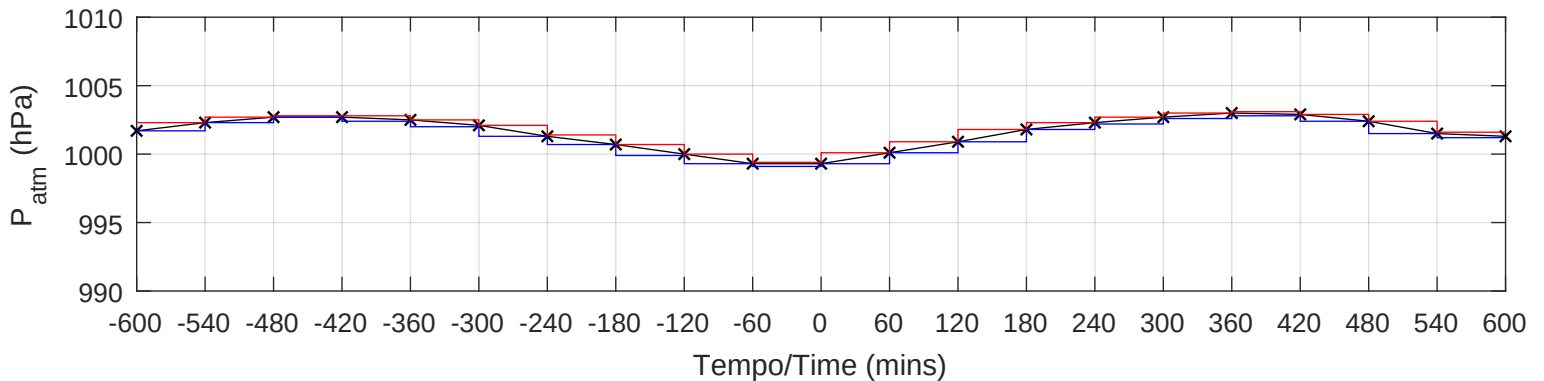
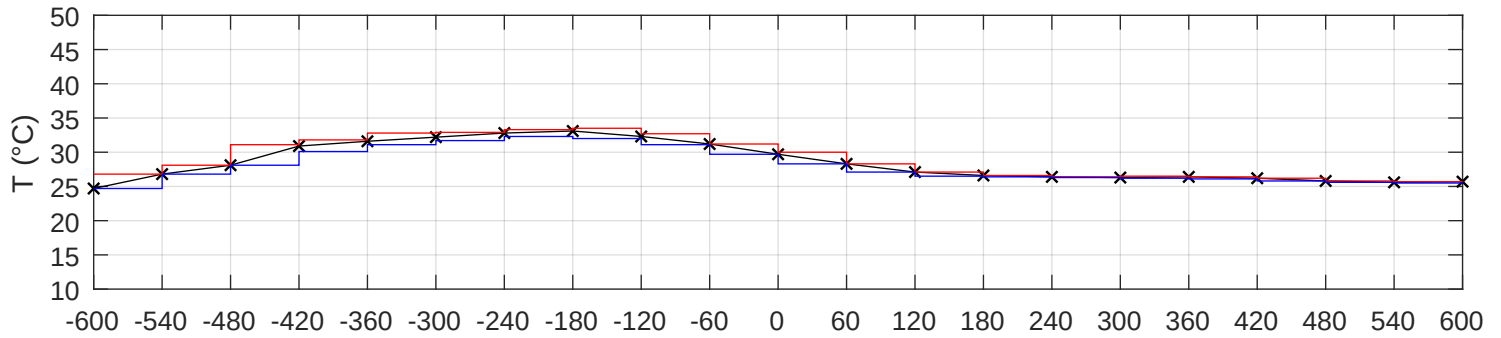
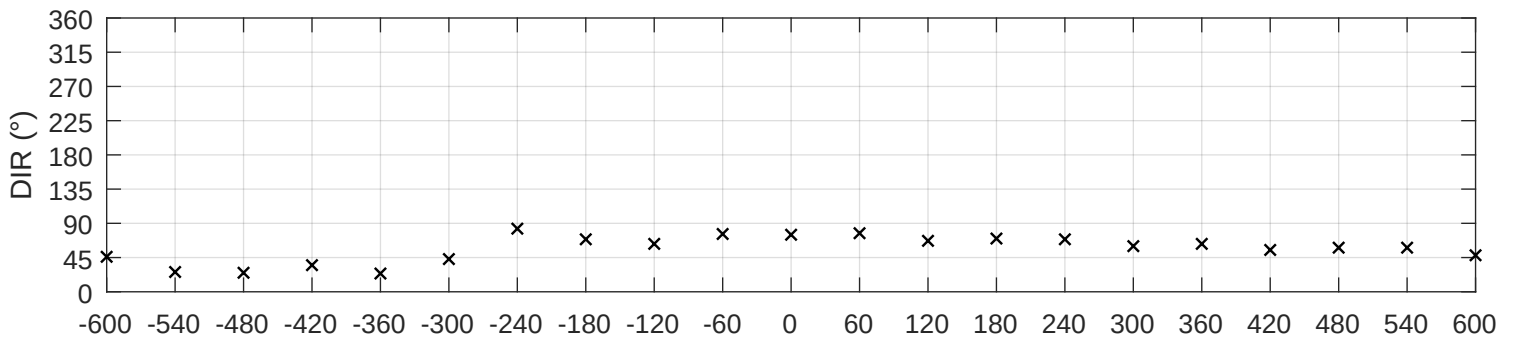
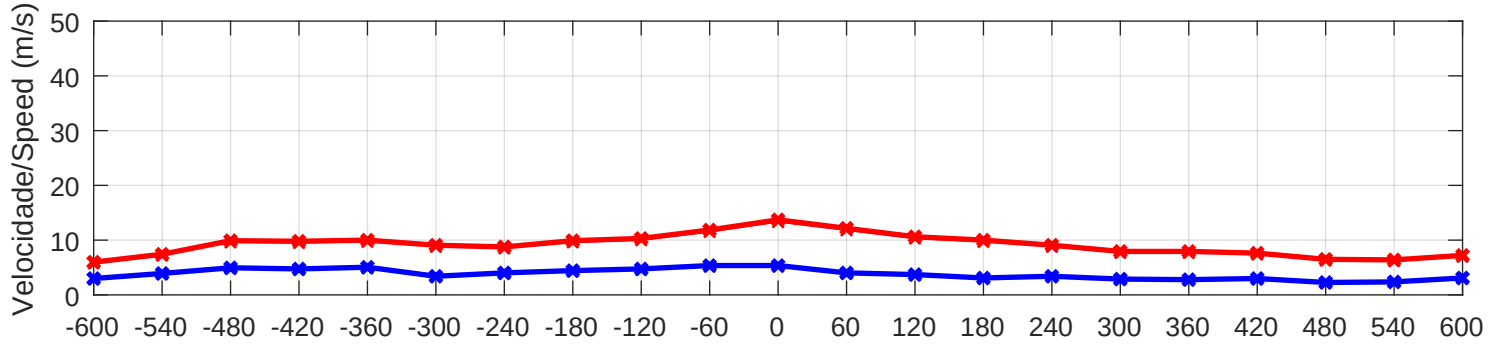
# A355/86619 EVENTO/EVENT 30 - 04/03/2019, 16:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                            | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|----------------------------------------------------|----------------------------------------|---------------------------------|
| $G_{obs} = 13.4 \text{ m/s}$   | $R_{G,-6} = 1.9$ $R_{V,-6} = 2.5$ | $T_{med,3} = 31.3 \text{ }^{\circ}\text{C}$        | $DIR = 95^{\circ}$                     | SINÓTICO                        |
| $V_{obs} = 5.5 \text{ m/s}$    | $R_{G,-3} = 1.5$ $R_{V,-3} = 2.0$ | $\Delta T_{min,3} = -6.7 \text{ }^{\circ}\text{C}$ | $\Delta DIR_{max,-3} = 6^{\circ}$      | SYNOPTIC                        |
| $G_V = 2.4$                    | $R_{G,+3} = 1.7$ $R_{V,+3} = 1.8$ | $\Delta P_{max,3} = 0.7 \text{ hPa}$               | $\Delta DIR_{max,+3} = 23^{\circ}$     | (21)                            |
| $G_{cor} = 13.8 \text{ m/s}$   | $R_{G,+6} = 2.0$ $R_{V,+6} = 2.2$ | $\Delta \text{ Grupo/Group} = 2$                   |                                        |                                 |
| $V_{cor} = 5.7 \text{ m/s}$    |                                   |                                                    |                                        |                                 |



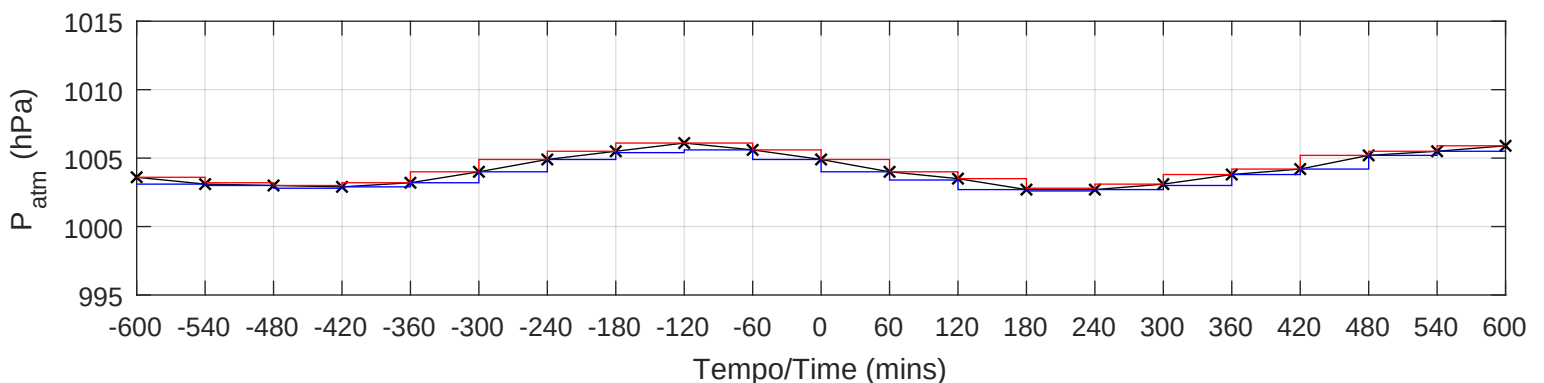
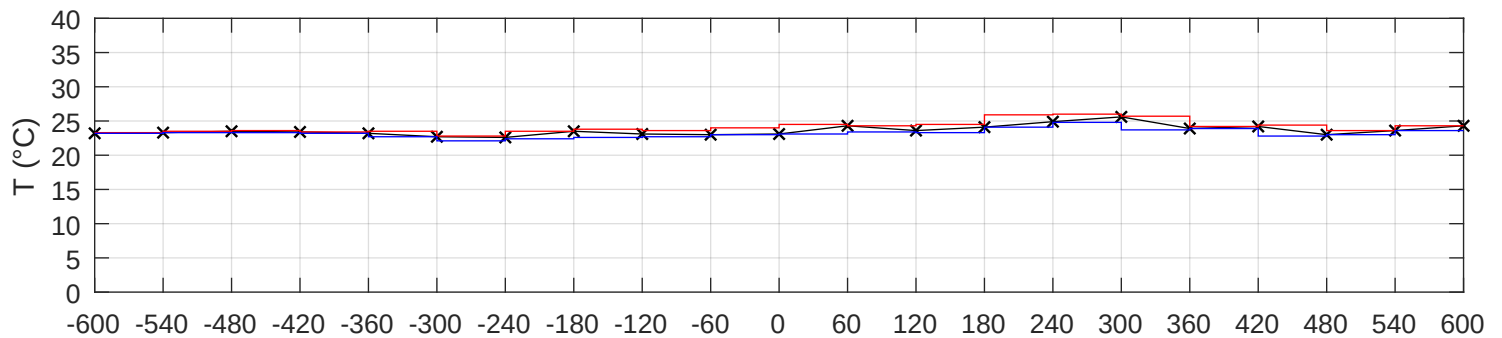
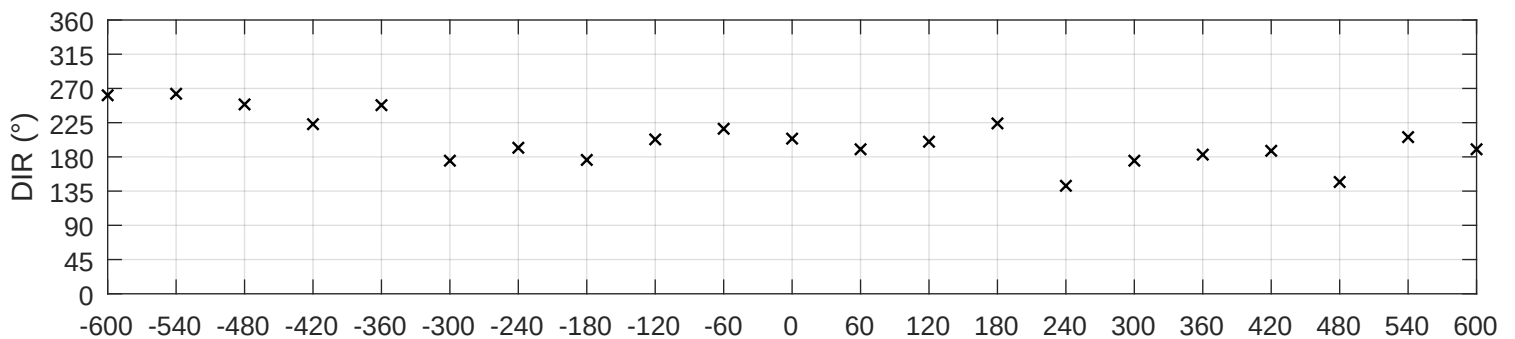
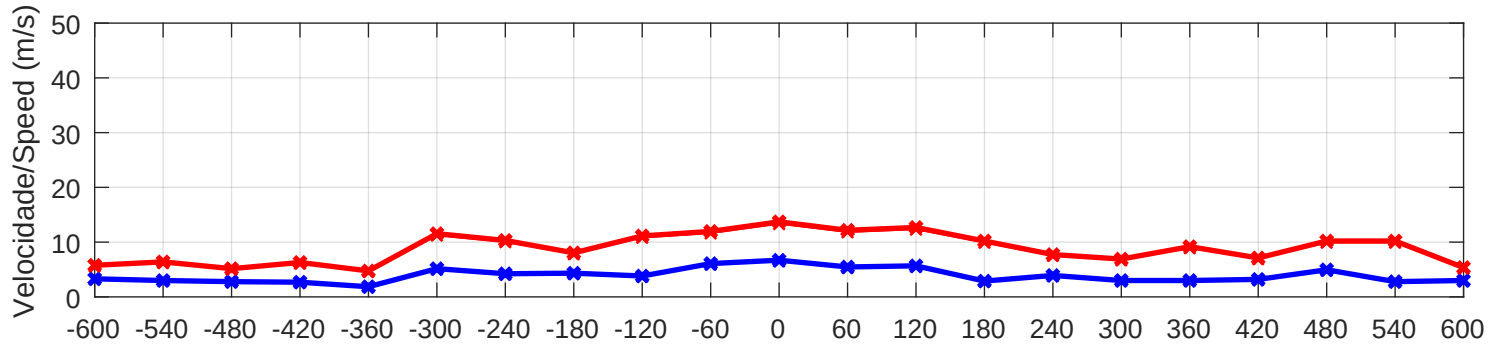
# A355/86619 EVENTO/EVENT 31 - 05/01/2009, 19:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                            | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|----------------------------------------------------|----------------------------------------|---------------------------------|
| $G_{obs} = 13.3 \text{ m/s}$   | $R_{G,-6} = 1.4$ $R_{V,-6} = 1.2$ | $T_{med,3} = 32.2 \text{ }^{\circ}\text{C}$        | $DIR = 75^{\circ}$                     | SINÓTICO                        |
| $V_{obs} = 5.2 \text{ m/s}$    | $R_{G,-3} = 1.3$ $R_{V,-3} = 1.2$ | $\Delta T_{min,3} = -3.0 \text{ }^{\circ}\text{C}$ | $\Delta DIR_{max,-3} = 12^{\circ}$     | SYNOPTIC                        |
| $G_V = 2.6$                    | $R_{G,+3} = 1.3$ $R_{V,+3} = 1.2$ | $\Delta P_{max,3} = 1.0 \text{ hPa}$               | $\Delta DIR_{max,+3} = 8^{\circ}$      | (22)                            |
| $G_{cor} = 13.7 \text{ m/s}$   | $R_{G,+6} = 1.4$ $R_{V,+6} = 1.4$ | $\Delta \text{ Grupo/Group} = 3$                   |                                        |                                 |
| $V_{cor} = 5.4 \text{ m/s}$    |                                   |                                                    |                                        |                                 |



# A355/86619 EVENTO/EVENT 32 - 22/04/2013, 14:00 UTC (WRDS - WEB)

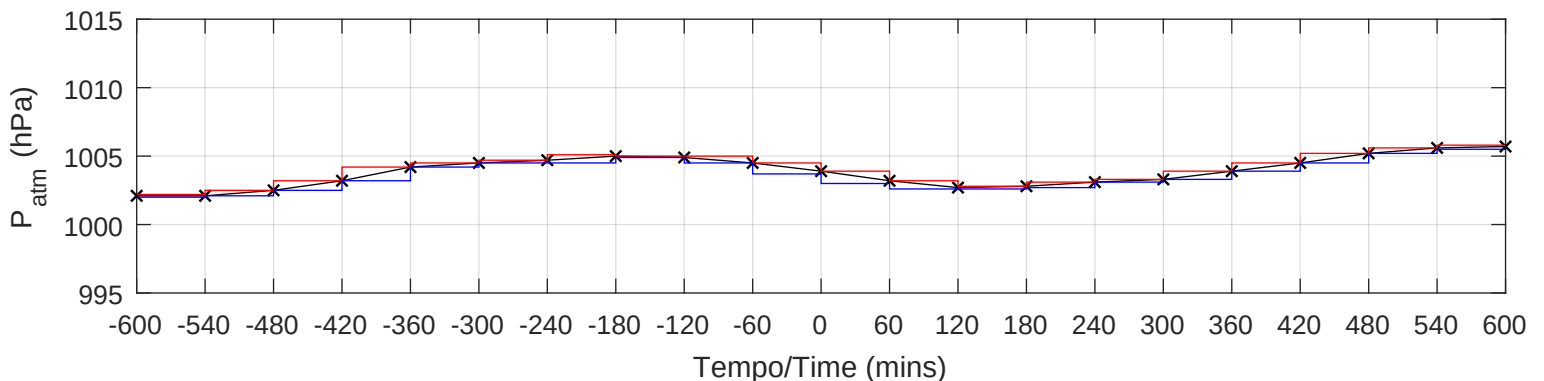
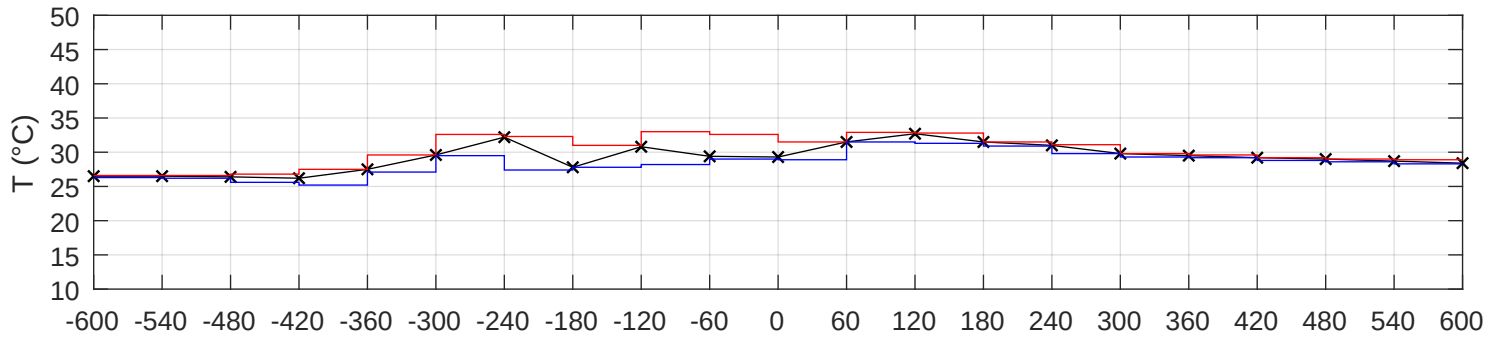
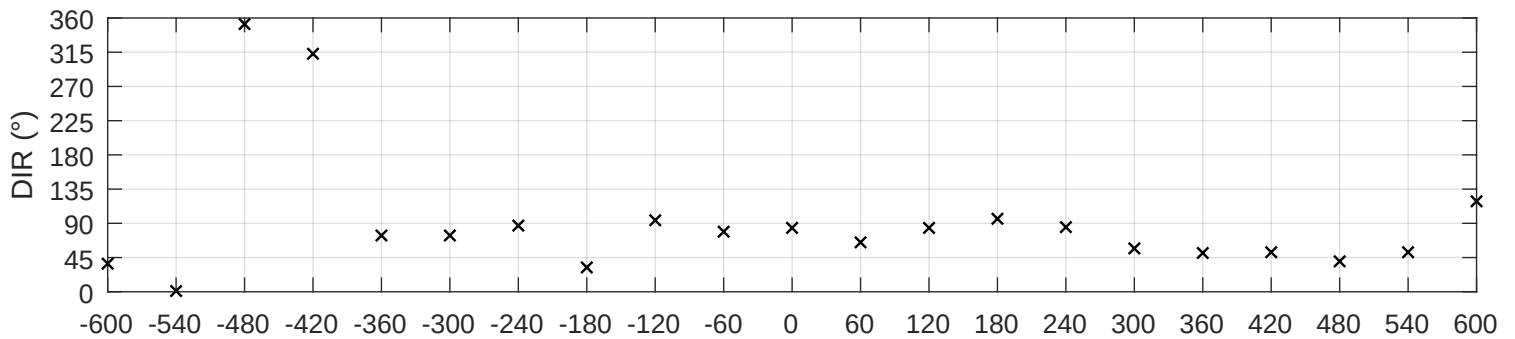
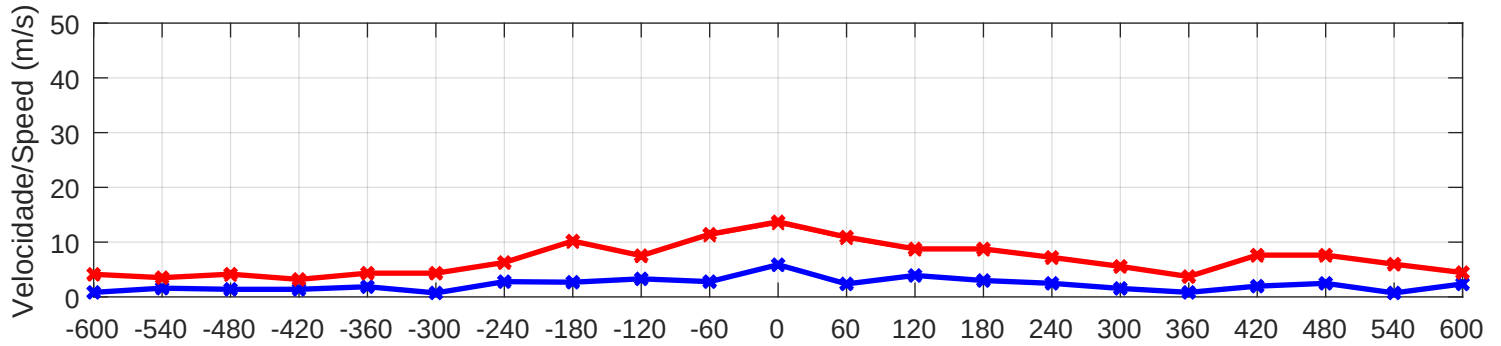
| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                            | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|----------------------------------------------------|----------------------------------------|---------------------------------|
| $G_{obs} = 13.3 \text{ m/s}$   | $R_{G,-6} = 1.4$ $R_{V,-6} = 1.6$ | $T_{med,3} = 23.2 \text{ }^{\circ}\text{C}$        | $DIR = 204^{\circ}$                    | SINÓTICO                        |
| $V_{obs} = 6.5 \text{ m/s}$    | $R_{G,-3} = 1.3$ $R_{V,-3} = 1.4$ | $\Delta T_{min,3} = -1.1 \text{ }^{\circ}\text{C}$ | $\Delta DIR_{max,-3} = 28^{\circ}$     | SYNOPTIC                        |
| $G_V = 2.0$                    | $R_{G,+3} = 1.2$ $R_{V,+3} = 1.4$ | $\Delta P_{max,3} = 0.7 \text{ hPa}$               | $\Delta DIR_{max,+3} = 20^{\circ}$     | (22)                            |
| $G_{cor} = 13.7 \text{ m/s}$   | $R_{G,+6} = 1.4$ $R_{V,+6} = 1.7$ | $\Delta$ Grupo/Group = 3                           |                                        |                                 |
| $V_{cor} = 6.7 \text{ m/s}$    |                                   |                                                    |                                        |                                 |





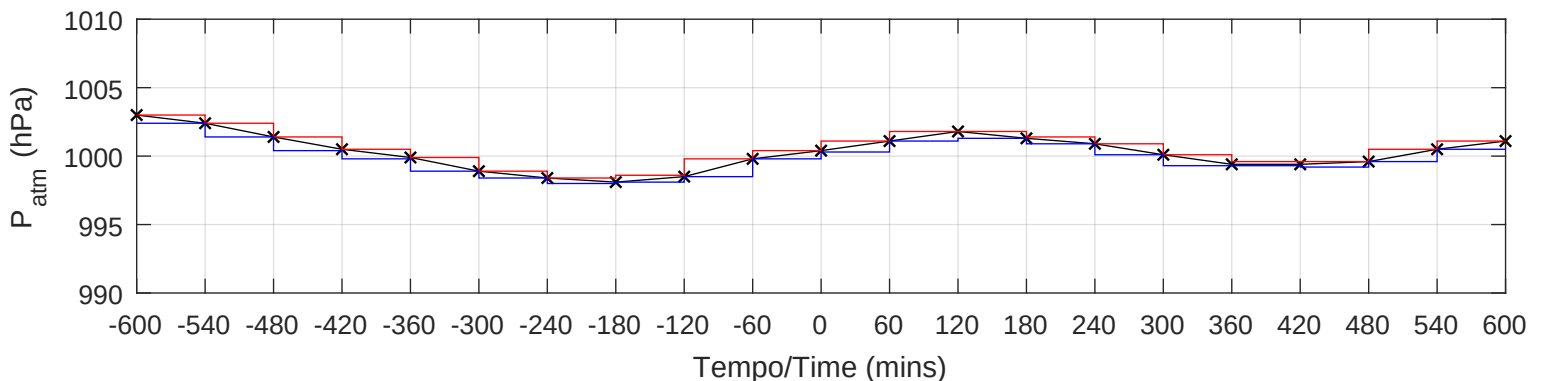
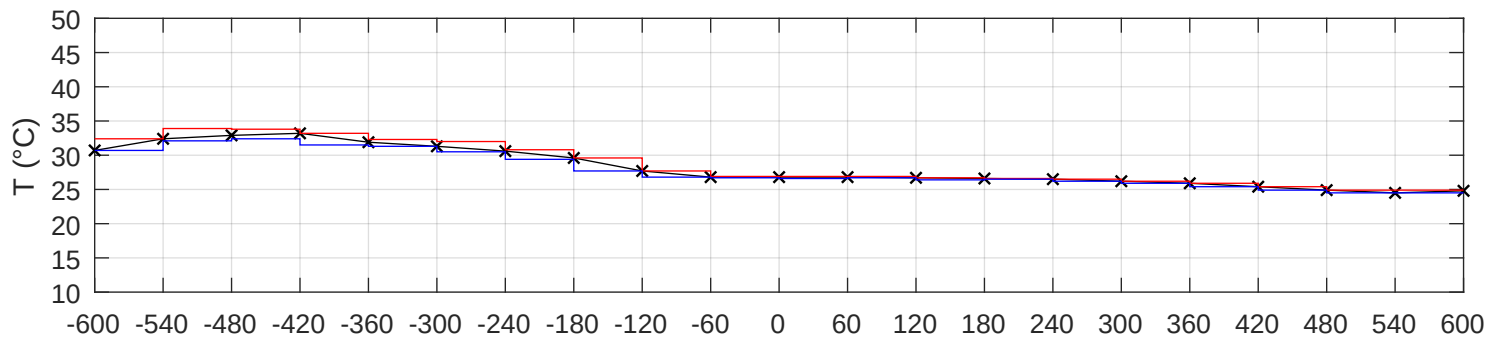
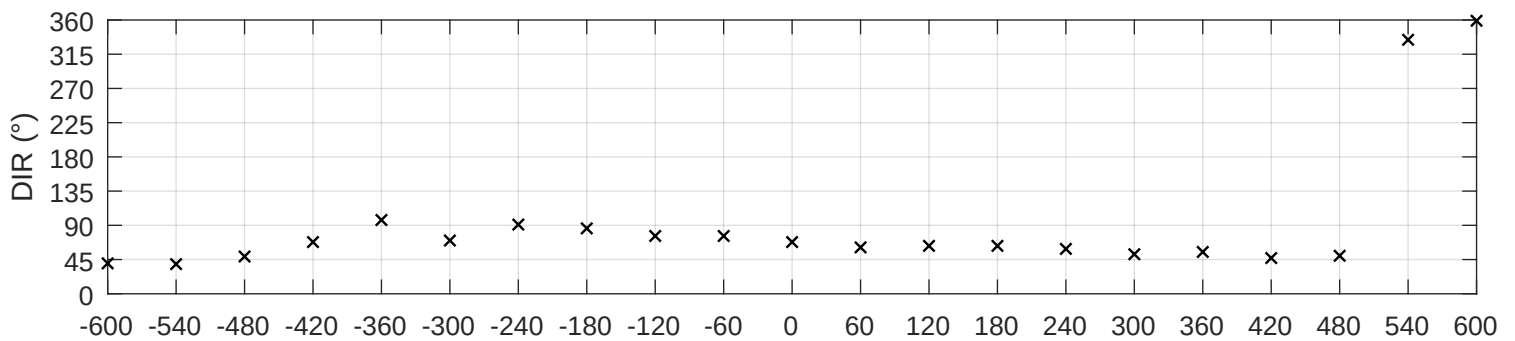
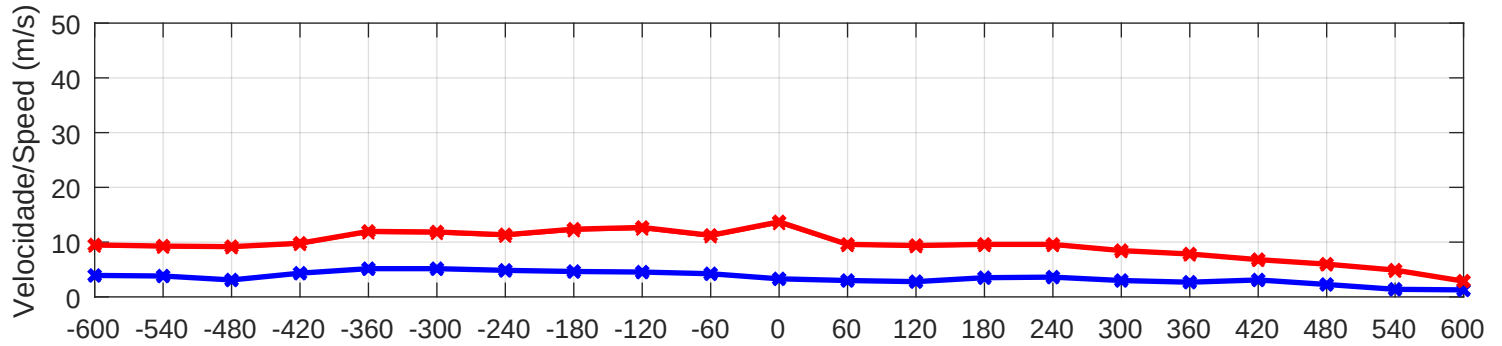
# A355/86619 EVENTO/EVENT 33 - 23/02/2015, 16:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                            | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|----------------------------------------------------|----------------------------------------|---------------------------------|
| $G_{obs} = 13.3 \text{ m/s}$   | $R_{G,-6} = 1.9$ $R_{V,-6} = 2.5$ | $T_{med,3} = 29.3 \text{ }^{\circ}\text{C}$        | $DIR = 84^{\circ}$                     | SINÓTICO                        |
| $V_{obs} = 5.7 \text{ m/s}$    | $R_{G,-3} = 1.4$ $R_{V,-3} = 2.0$ | $\Delta T_{min,3} = -4.0 \text{ }^{\circ}\text{C}$ | $\Delta DIR_{max,-3} = 52^{\circ}$     | SYNOPTIC                        |
| $G_V = 2.3$                    | $R_{G,+3} = 1.4$ $R_{V,+3} = 1.9$ | $\Delta P_{max,3} = 0.2 \text{ hPa}$               | $\Delta DIR_{max,+3} = 19^{\circ}$     | (22)                            |
| $G_{cor} = 13.7 \text{ m/s}$   | $R_{G,+6} = 1.8$ $R_{V,+6} = 2.5$ | $\Delta \text{ Grupo/Group} = 3$                   |                                        |                                 |
| $V_{cor} = 5.9 \text{ m/s}$    |                                   |                                                    |                                        |                                 |



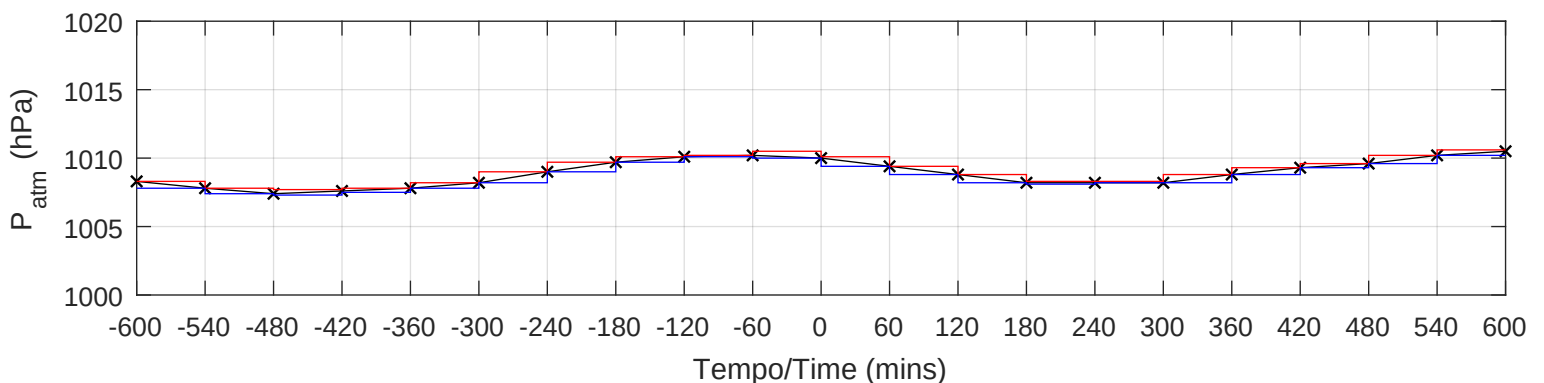
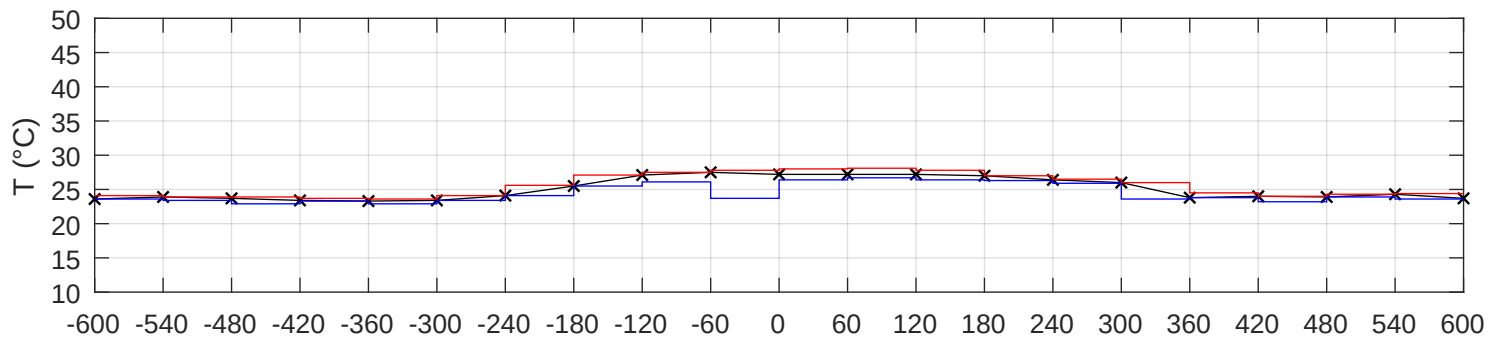
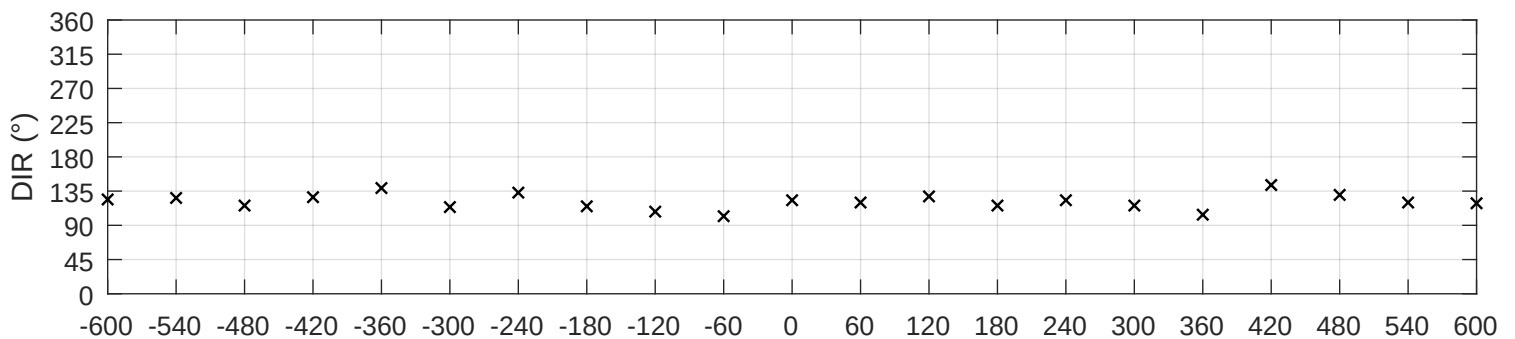
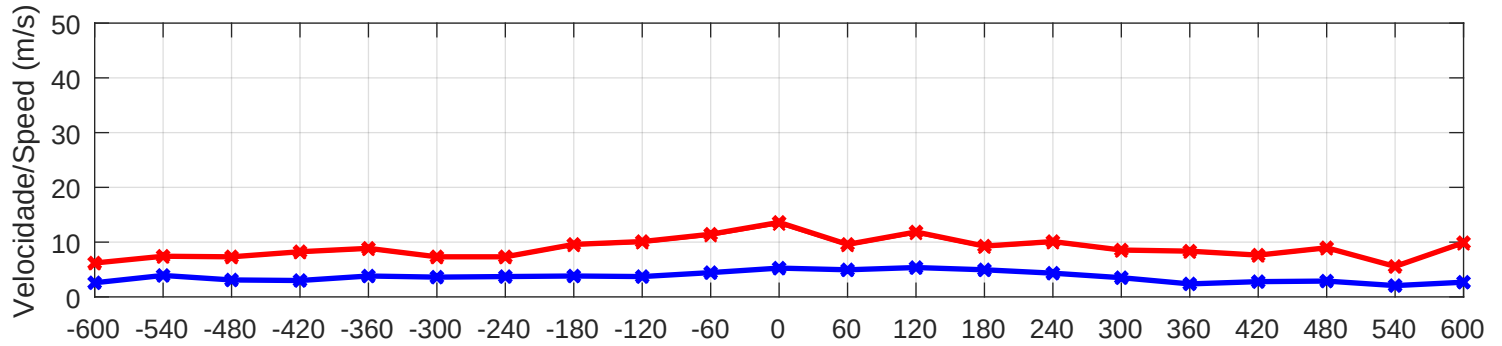
# A355/86619 EVENTO/EVENT 34 - 02/12/2018, 22:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                            | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|----------------------------------------------------|----------------------------------------|---------------------------------|
| $G_{obs} = 13.3 \text{ m/s}$   | $R_{G,-6} = 1.2$ $R_{V,-6} = 0.9$ | $T_{med,3} = 28.0 \text{ }^{\circ}\text{C}$        | $DIR = 68^{\circ}$                     | SINÓTICO                        |
| $V_{obs} = 4.1 \text{ m/s}$    | $R_{G,-3} = 1.1$ $R_{V,-3} = 0.9$ | $\Delta T_{min,3} = -2.8 \text{ }^{\circ}\text{C}$ | $\Delta DIR_{max,-3} = 18^{\circ}$     | SYNOPTIC                        |
| $G_V = 3.2$                    | $R_{G,+3} = 1.4$ $R_{V,+3} = 1.4$ | $\Delta P_{max,3} = 1.9 \text{ hPa}$               | $\Delta DIR_{max,+3} = 7^{\circ}$      | (21)                            |
| $G_{cor} = 13.7 \text{ m/s}$   | $R_{G,+6} = 1.5$ $R_{V,+6} = 1.3$ | $\Delta \text{ Grupo/Group} = 2$                   |                                        |                                 |
| $V_{cor} = 4.2 \text{ m/s}$    |                                   |                                                    |                                        |                                 |



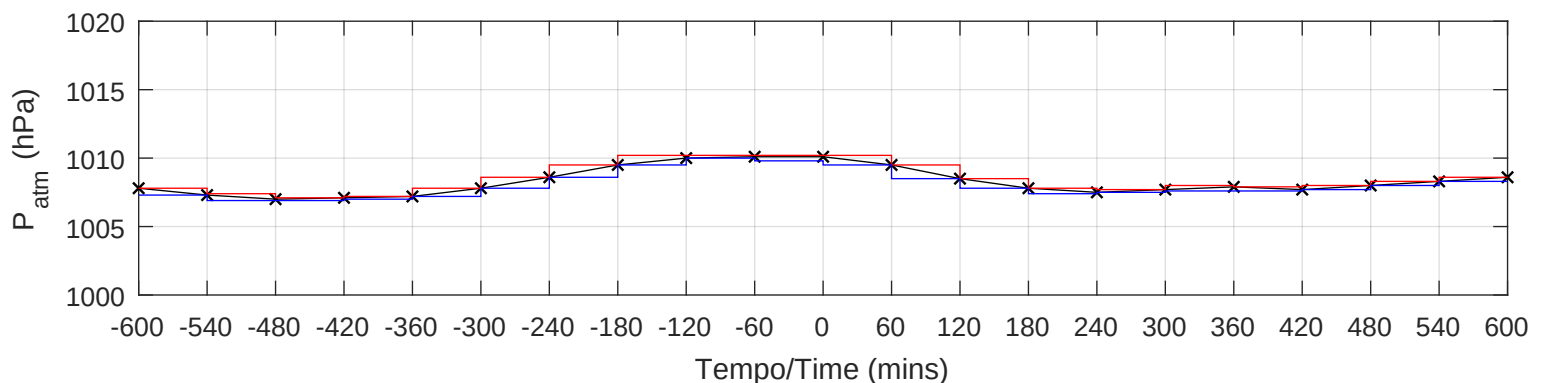
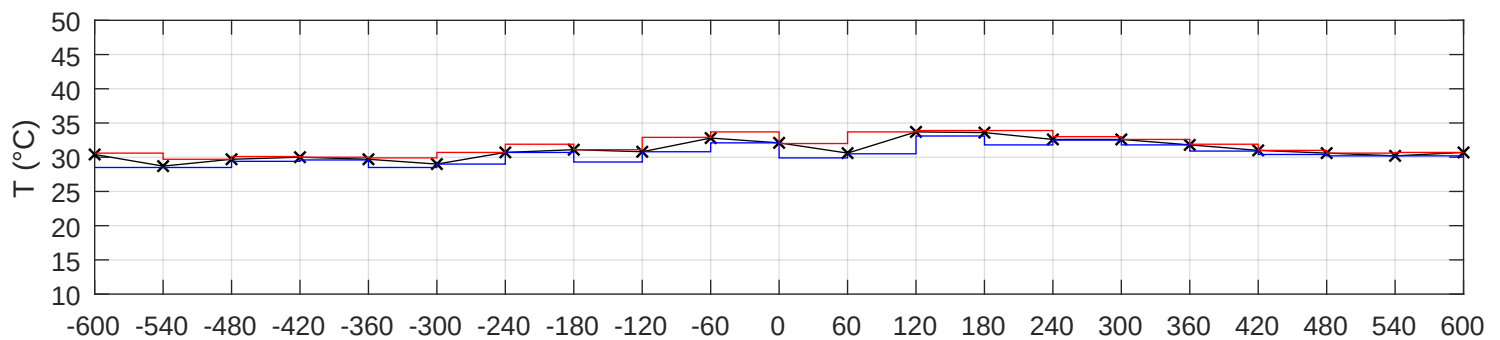
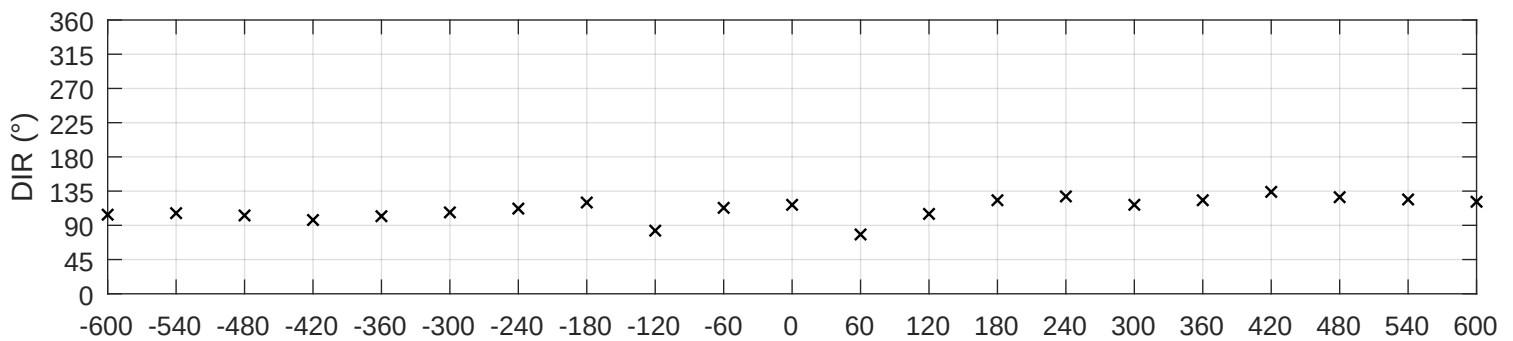
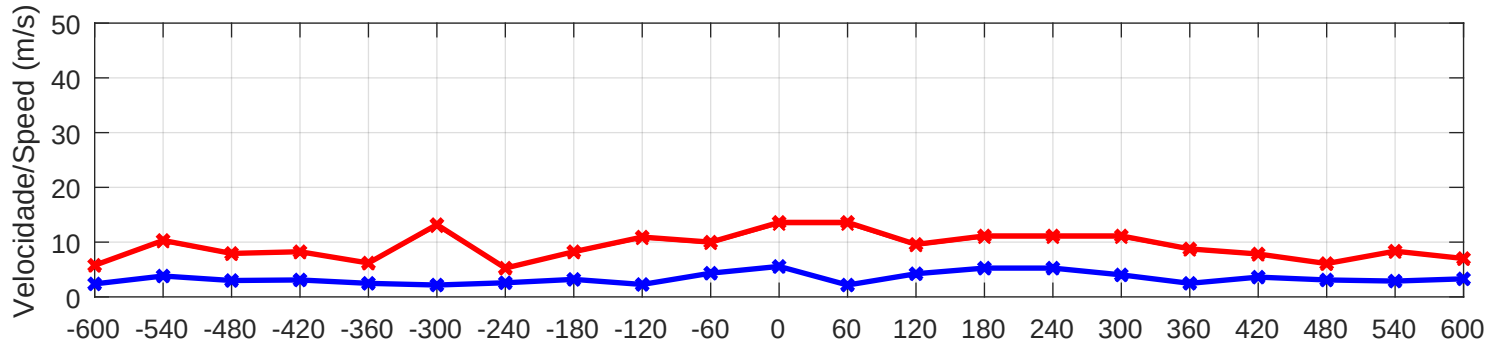
# A355/86619 EVENTO/EVENT 35 - 23/06/2014, 14:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                            | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|----------------------------------------------------|----------------------------------------|---------------------------------|
| $G_{obs} = 13.2 \text{ m/s}$   | $R_{G,-6} = 1.5$ $R_{V,-6} = 1.4$ | $T_{med,3} = 26.7 \text{ }^{\circ}\text{C}$        | $DIR = 123^{\circ}$                    | SINÓTICO                        |
| $V_{obs} = 5.1 \text{ m/s}$    | $R_{G,-3} = 1.3$ $R_{V,-3} = 1.3$ | $\Delta T_{min,3} = -3.8 \text{ }^{\circ}\text{C}$ | $\Delta DIR_{max,-3} = 21^{\circ}$     | SYNOPTIC                        |
| $G_V = 2.6$                    | $R_{G,+3} = 1.3$ $R_{V,+3} = 1.0$ | $\Delta P_{max,3} = 0.5 \text{ hPa}$               | $\Delta DIR_{max,+3} = 7^{\circ}$      | (22)                            |
| $G_{cor} = 13.6 \text{ m/s}$   | $R_{G,+6} = 1.4$ $R_{V,+6} = 1.2$ | $\Delta$ Grupo/Group = 3                           |                                        |                                 |
| $V_{cor} = 5.3 \text{ m/s}$    |                                   |                                                    |                                        |                                 |



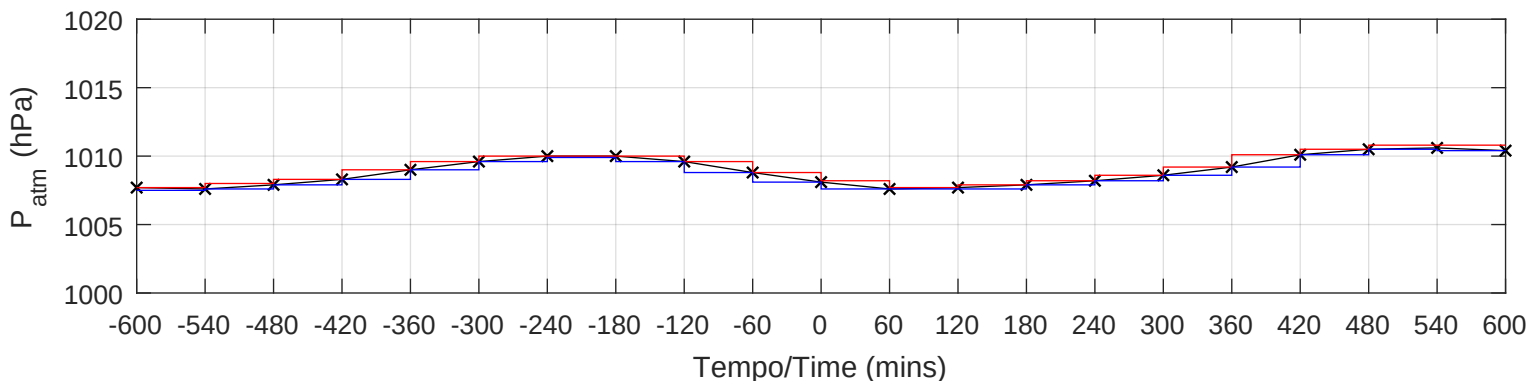
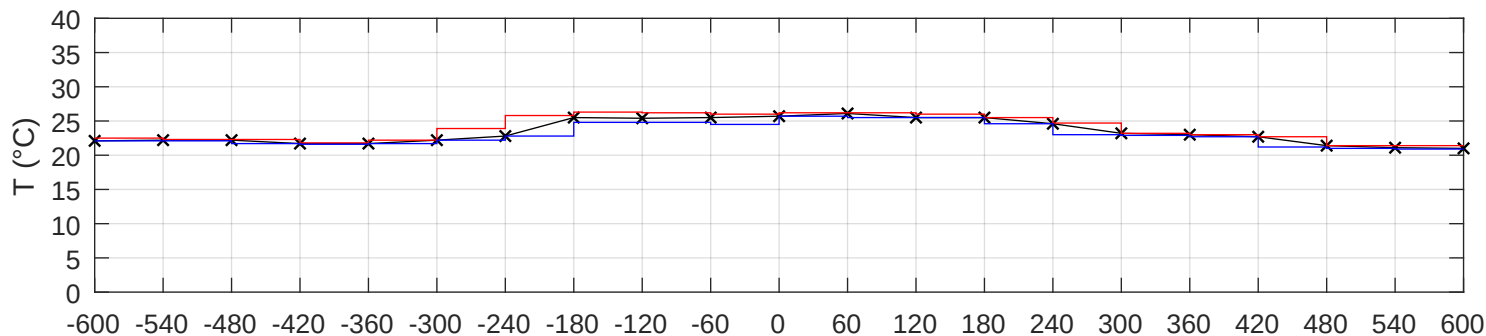
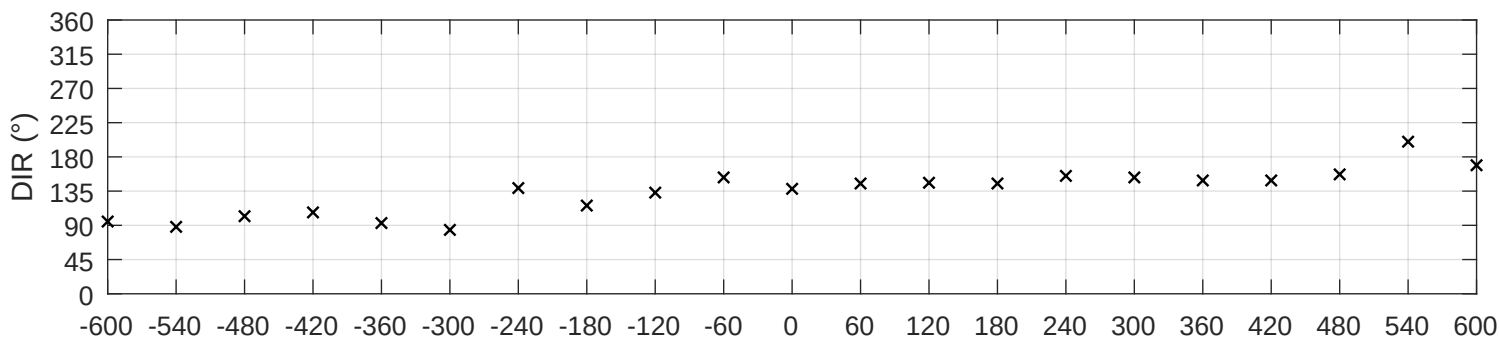
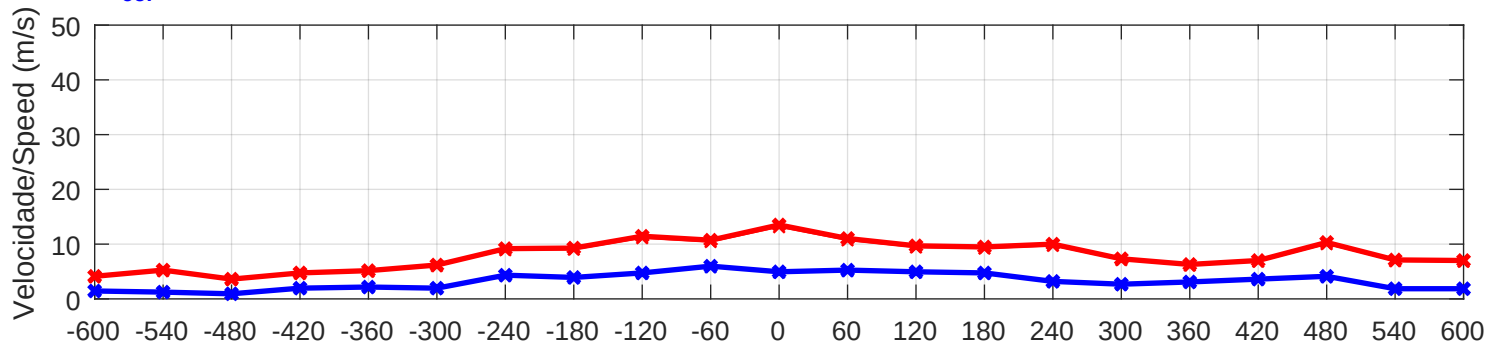
# A355/86619 EVENTO/EVENT 36 - 15/07/2015, 14:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                            | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|----------------------------------------------------|----------------------------------------|---------------------------------|
| $G_{obs} = 13.2 \text{ m/s}$   | $R_{G,-6} = 1.5$ $R_{V,-6} = 2.0$ | $T_{med,3} = 31.6 \text{ }^{\circ}\text{C}$        | $DIR = 117^{\circ}$                    | SINÓTICO                        |
| $V_{obs} = 5.4 \text{ m/s}$    | $R_{G,-3} = 1.4$ $R_{V,-3} = 1.7$ | $\Delta T_{min,3} = -3.8 \text{ }^{\circ}\text{C}$ | $\Delta DIR_{max,-3} = 34^{\circ}$     | SYNOPTIC                        |
| $G_V = 2.4$                    | $R_{G,+3} = 1.2$ $R_{V,+3} = 1.4$ | $\Delta P_{max,3} = 0.7 \text{ hPa}$               | $\Delta DIR_{max,+3} = 39^{\circ}$     | (22)                            |
| $G_{cor} = 13.6 \text{ m/s}$   | $R_{G,+6} = 1.2$ $R_{V,+6} = 1.4$ | $\Delta$ Grupo/Group = 3                           |                                        |                                 |
| $V_{cor} = 5.6 \text{ m/s}$    |                                   |                                                    |                                        |                                 |



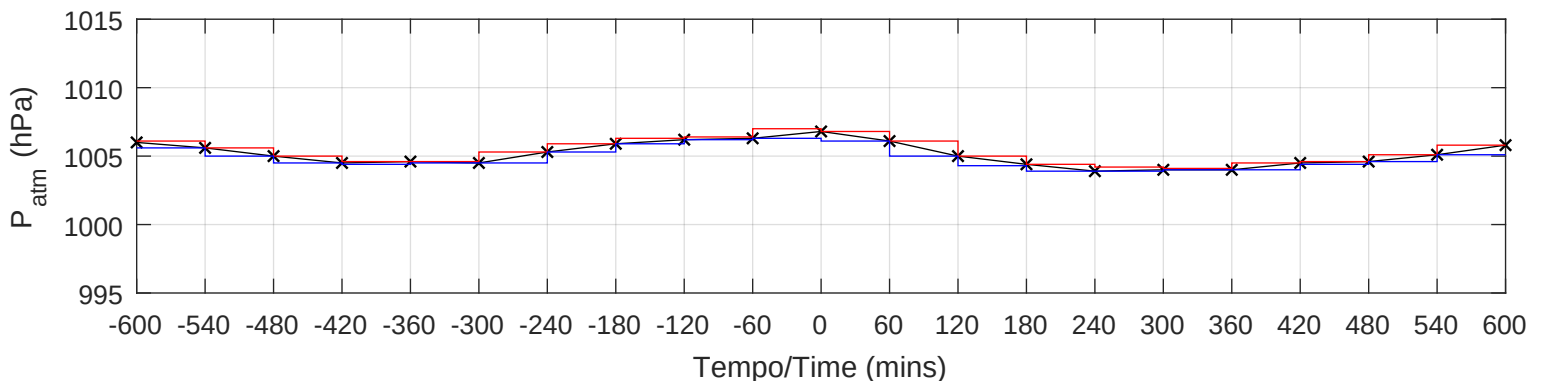
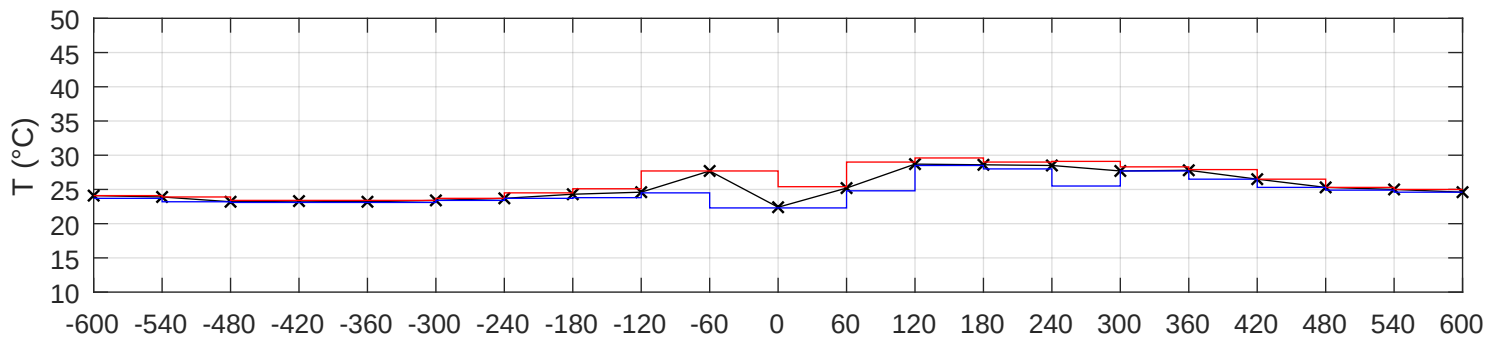
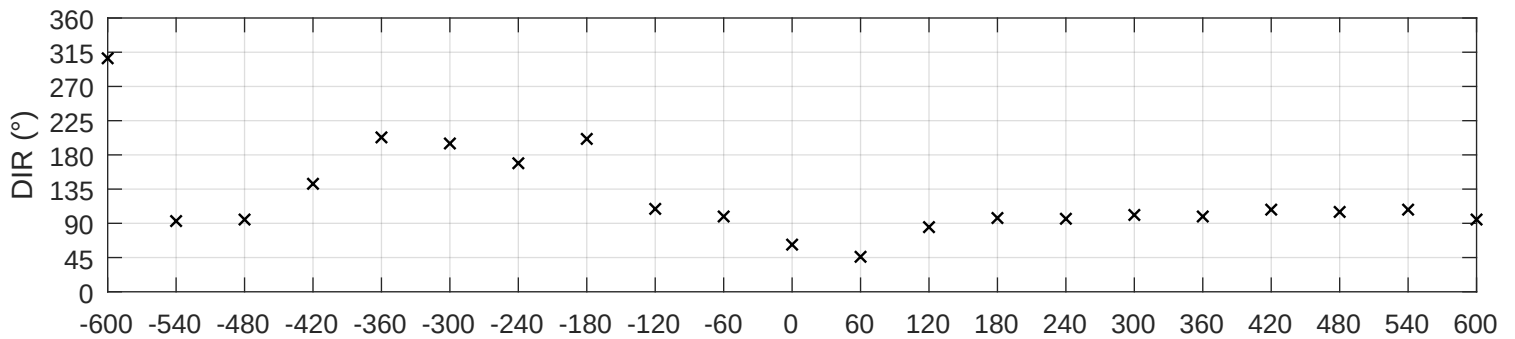
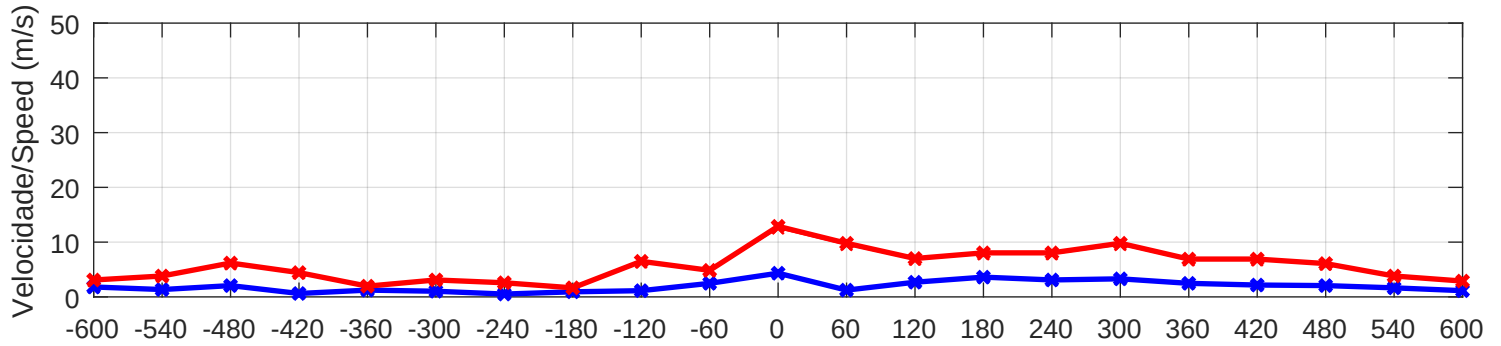
# A355/86619 EVENTO/EVENT 37 - 21/07/2010, 16:00 UTC (WRDS - DISME)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                            | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|----------------------------------------------------|----------------------------------------|---------------------------------|
| $G_{obs} = 13.1 \text{ m/s}$   | $R_{G,-6} = 1.6$ $R_{V,-6} = 1.9$ | $T_{med,3} = 25.5 \text{ }^{\circ}\text{C}$        | $DIR = 138^{\circ}$                    | SINÓTICO                        |
| $V_{obs} = 5.8 \text{ m/s}$    | $R_{G,-3} = 1.3$ $R_{V,-3} = 1.4$ | $\Delta T_{min,3} = -1.7 \text{ }^{\circ}\text{C}$ | $\Delta DIR_{max,-3} = 22^{\circ}$     | SYNOPTIC                        |
| $G_V = 2.3$                    | $R_{G,+3} = 1.3$ $R_{V,+3} = 1.2$ | $\Delta P_{max,3} = 0.1 \text{ hPa}$               | $\Delta DIR_{max,+3} = 8^{\circ}$      | (22)                            |
| $G_{cor} = 13.5 \text{ m/s}$   | $R_{G,+6} = 1.5$ $R_{V,+6} = 1.4$ | $\Delta \text{ Grupo/Group} = 3$                   |                                        |                                 |
| $V_{cor} = 6.0 \text{ m/s}$    |                                   |                                                    |                                        |                                 |



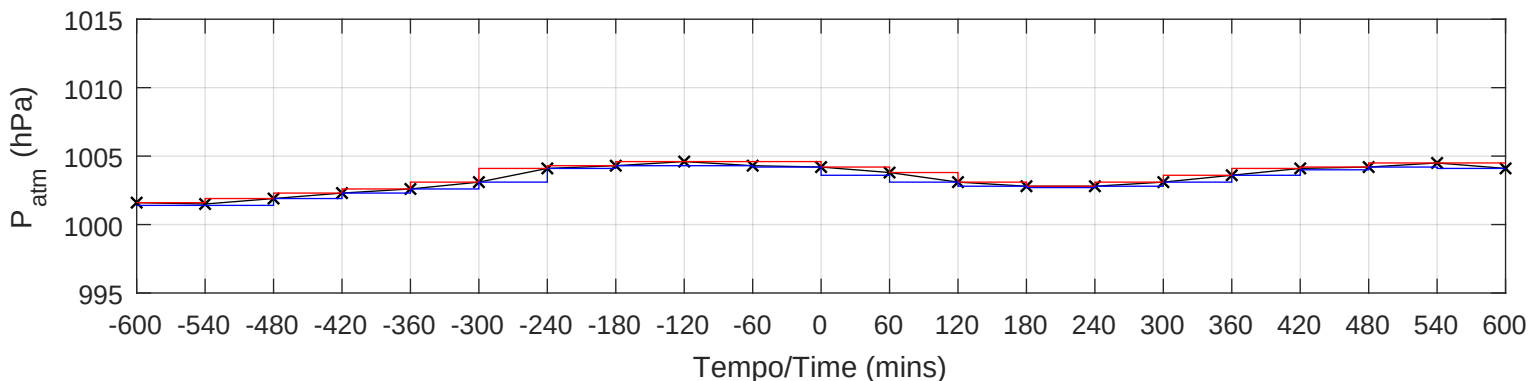
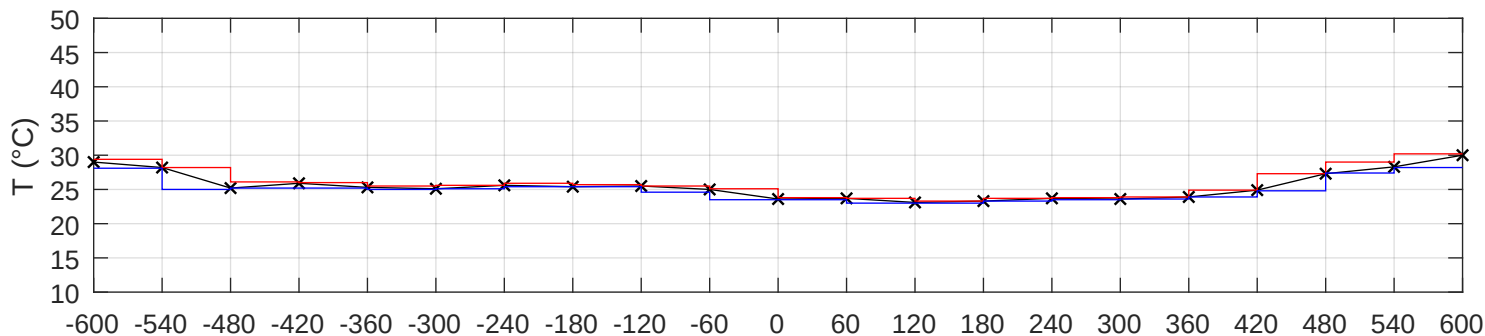
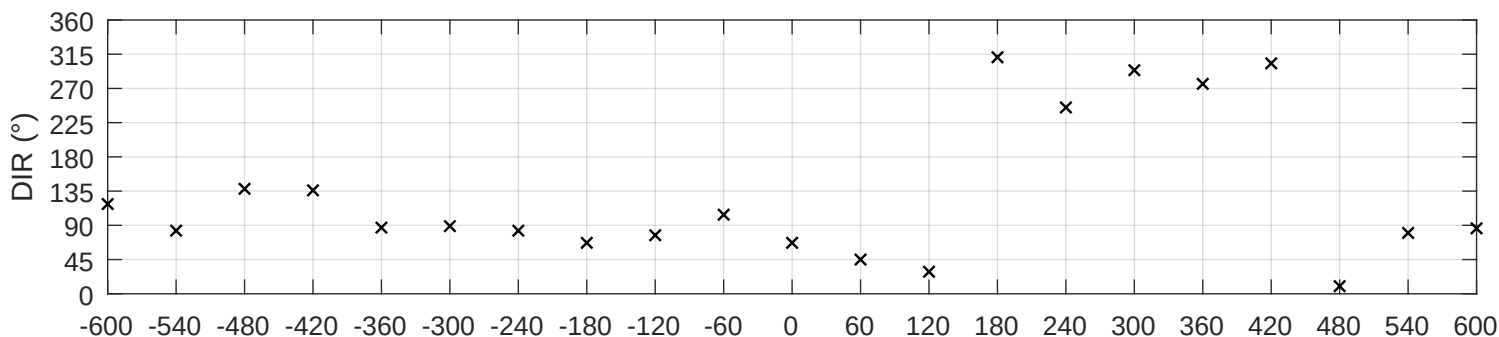
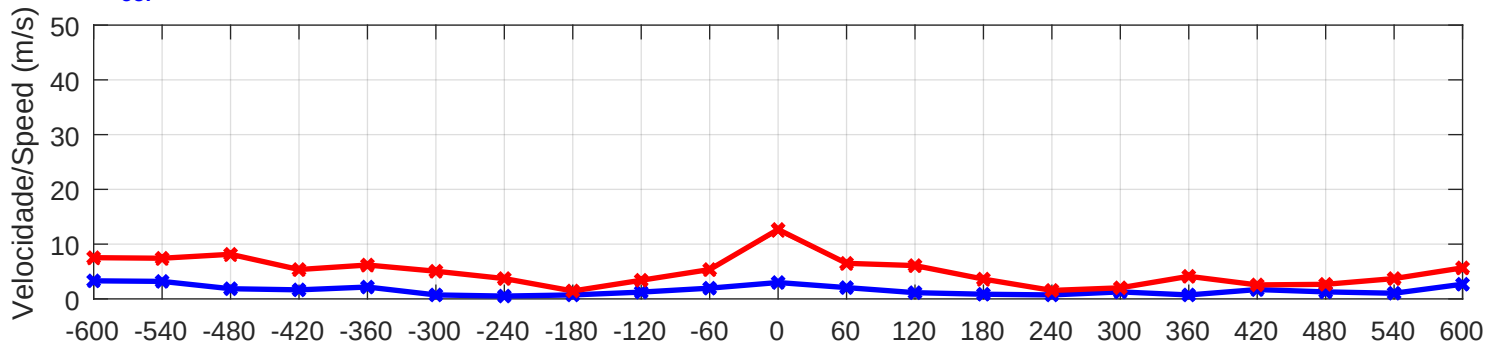
# A355/86619 EVENTO/EVENT 90 - 24/04/2018, 13:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                            | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|----------------------------------------------------|----------------------------------------|---------------------------------|
| $G_{obs} = 12.5 \text{ m/s}$   | $R_{G,-6} = 3.8$ $R_{V,-6} = 3.5$ | $T_{med,3} = 25.5 \text{ }^{\circ}\text{C}$        | $DIR = 62^{\circ}$                     | NÃO-SINÓTICO                    |
| $V_{obs} = 4.2 \text{ m/s}$    | $R_{G,-3} = 3.0$ $R_{V,-3} = 2.9$ | $\Delta T_{min,3} = -5.4 \text{ }^{\circ}\text{C}$ | $\Delta DIR_{max,-3} = 139^{\circ}$    | NON-SYNOPTIC                    |
| $G_V = 3.0$                    | $R_{G,+3} = 1.6$ $R_{V,+3} = 1.7$ | $\Delta P_{max,3} = 0.8 \text{ hPa}$               | $\Delta DIR_{max,+3} = 35^{\circ}$     | (11)                            |
| $G_{cor} = 12.9 \text{ m/s}$   | $R_{G,+6} = 1.6$ $R_{V,+6} = 1.6$ | $\Delta$ Grupo/Group = 2                           |                                        |                                 |
| $V_{cor} = 4.3 \text{ m/s}$    |                                   |                                                    |                                        |                                 |



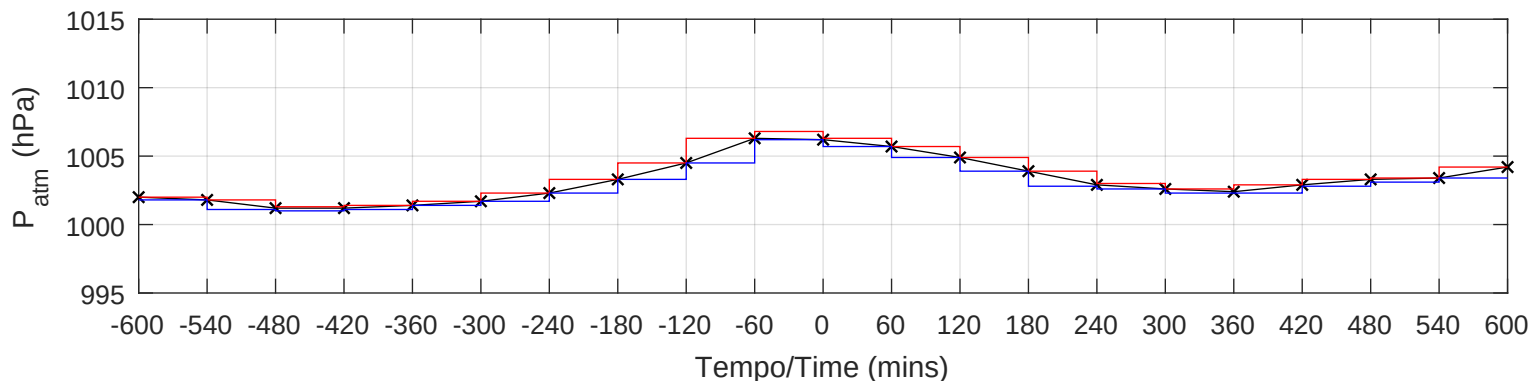
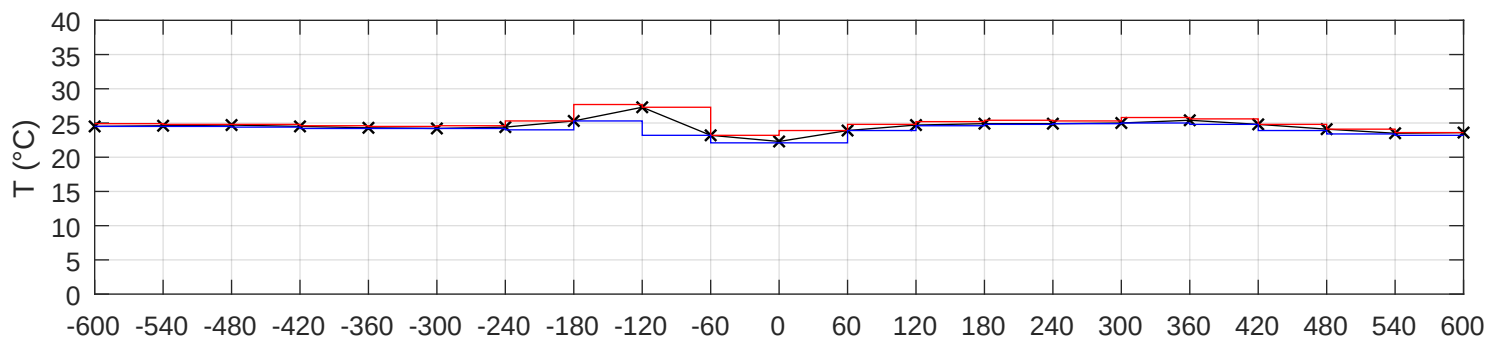
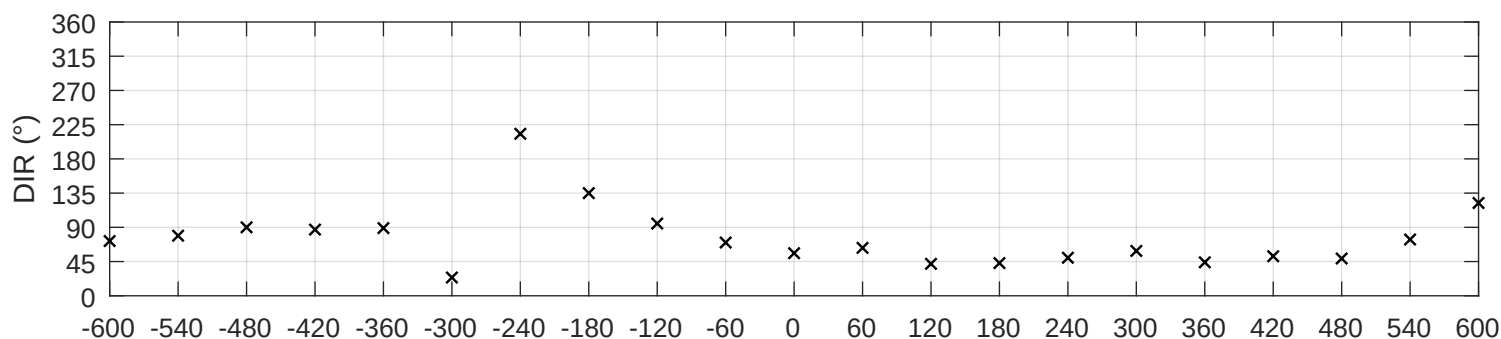
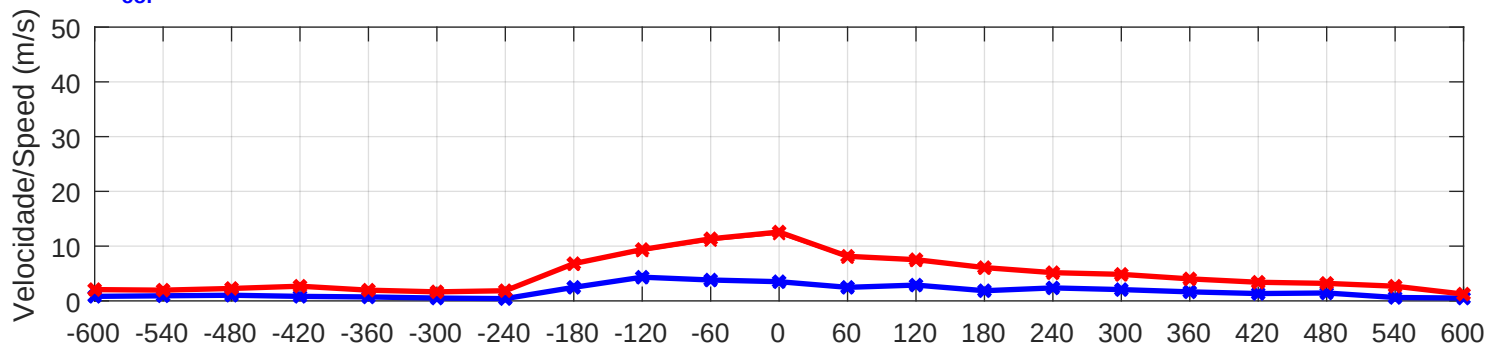
# A355/86619 EVENTO/EVENT 113 - 14/04/2014, 03:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                            | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|----------------------------------------------------|----------------------------------------|---------------------------------|
| $G_{obs} = 12.3 \text{ m/s}$   | $R_{G,-6} = 3.0$ $R_{V,-6} = 2.5$ | $T_{med,3} = 25.3 \text{ }^{\circ}\text{C}$        | $DIR = 67^{\circ}$                     | NÃO-SINÓTICO                    |
| $V_{obs} = 2.9 \text{ m/s}$    | $R_{G,-3} = 3.7$ $R_{V,-3} = 2.3$ | $\Delta T_{min,3} = -2.0 \text{ }^{\circ}\text{C}$ | $\Delta DIR_{max,-3} = 37^{\circ}$     | NON-SYNOPTIC                    |
| $G_V = 4.2$                    | $R_{G,+3} = 2.4$ $R_{V,+3} = 2.2$ | $\Delta P_{max,3} = 0.3 \text{ hPa}$               | $\Delta DIR_{max,+3} = 116^{\circ}$    | (12)                            |
| $G_{cor} = 12.7 \text{ m/s}$   | $R_{G,+6} = 3.2$ $R_{V,+6} = 2.7$ | $\Delta$ Grupo/Group = 3                           |                                        |                                 |
| $V_{cor} = 3.0 \text{ m/s}$    |                                   |                                                    |                                        |                                 |



# A355/86619 EVENTO/EVENT 122 - 22/02/2009, 13:00 UTC (WRDS - WEB)

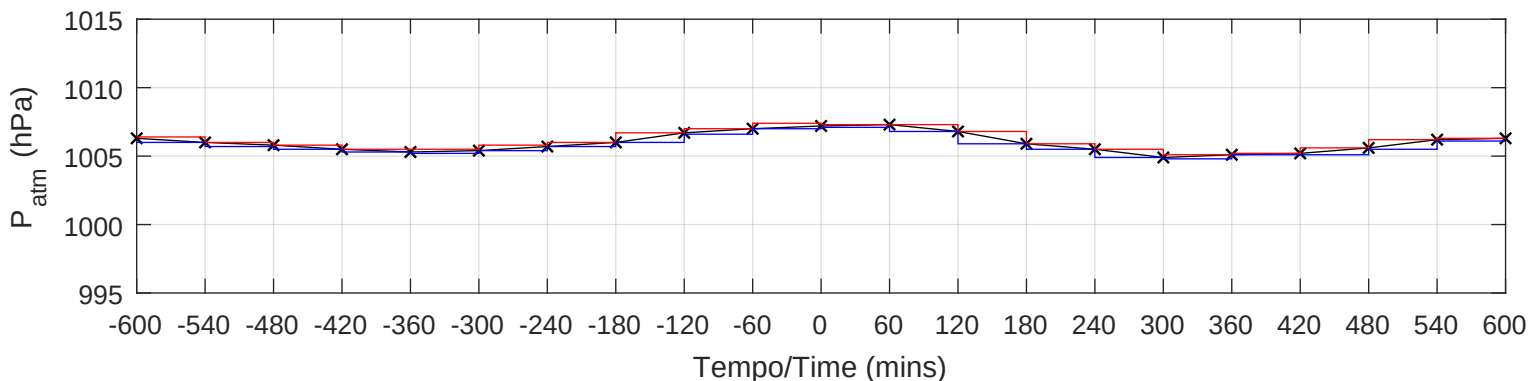
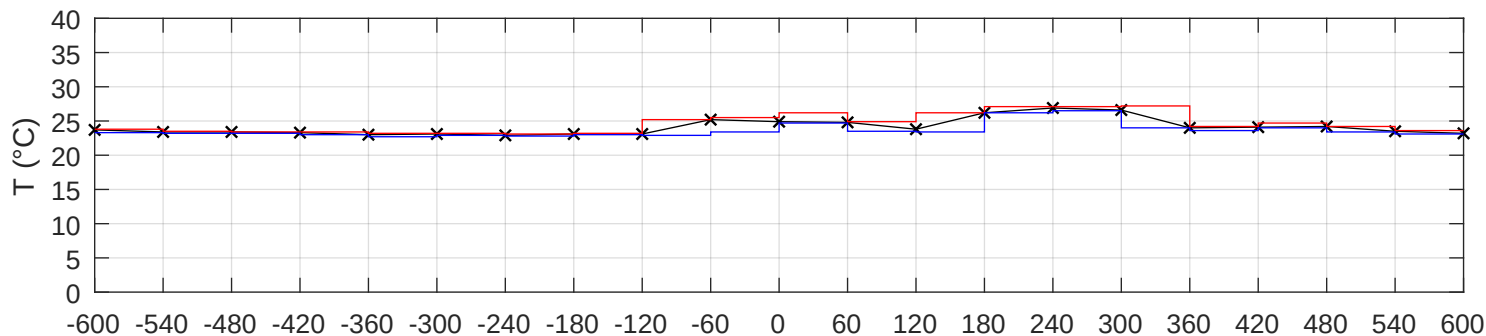
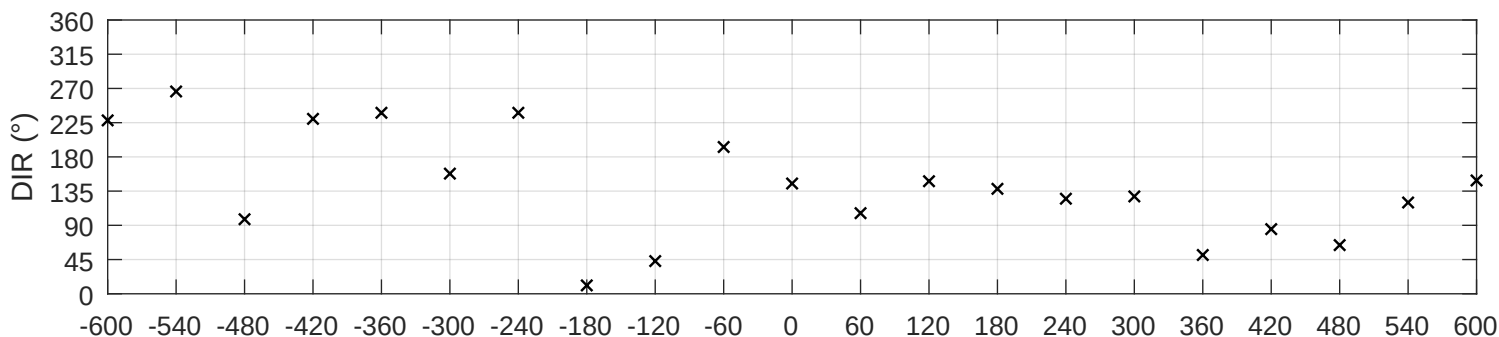
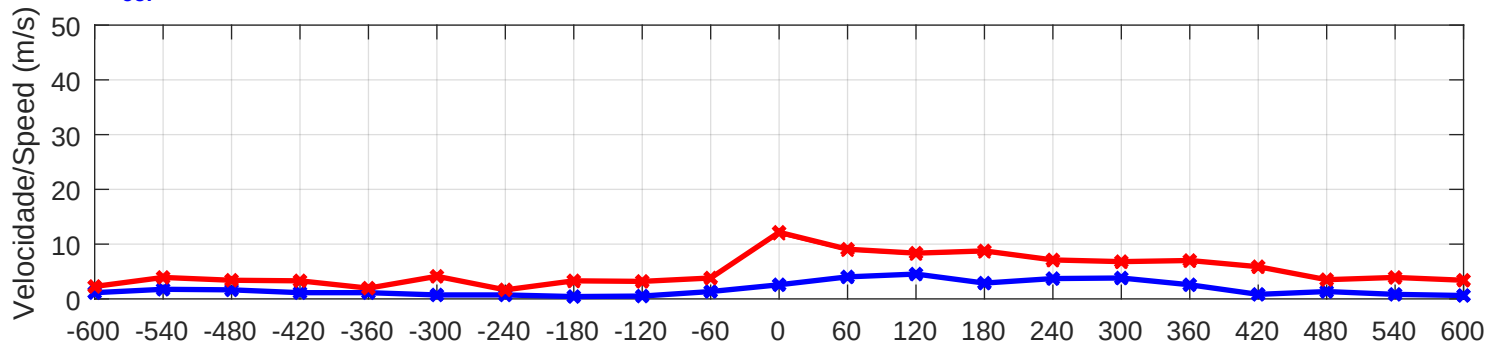
| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                            | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|----------------------------------------------------|----------------------------------------|---------------------------------|
| $G_{obs} = 12.2 \text{ m/s}$   | $R_{G,-6} = 2.3$ $R_{V,-6} = 2.5$ | $T_{med,3} = 25.3 \text{ }^{\circ}\text{C}$        | $DIR = 56^{\circ}$                     | NÃO-SINÓTICO                    |
| $V_{obs} = 3.7 \text{ m/s}$    | $R_{G,-3} = 1.4$ $R_{V,-3} = 1.6$ | $\Delta T_{min,3} = -5.2 \text{ }^{\circ}\text{C}$ | $\Delta DIR_{max,-3} = 79^{\circ}$     | NON-SYNOPTIC                    |
| $G_V = 3.3$                    | $R_{G,+3} = 1.7$ $R_{V,+3} = 1.3$ | $\Delta P_{max,3} = 3.0 \text{ hPa}$               | $\Delta DIR_{max,+3} = 14^{\circ}$     | (10)                            |
| $G_{cor} = 12.6 \text{ m/s}$   | $R_{G,+6} = 2.1$ $R_{V,+6} = 1.5$ | $\Delta$ Grupo/Group = 1                           |                                        |                                 |
| $V_{cor} = 3.8 \text{ m/s}$    |                                   |                                                    |                                        |                                 |





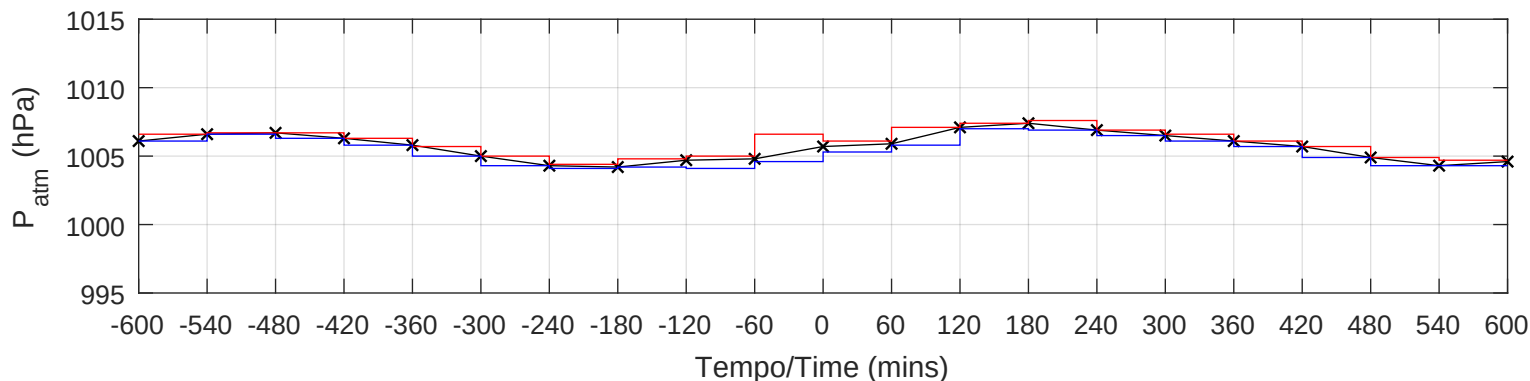
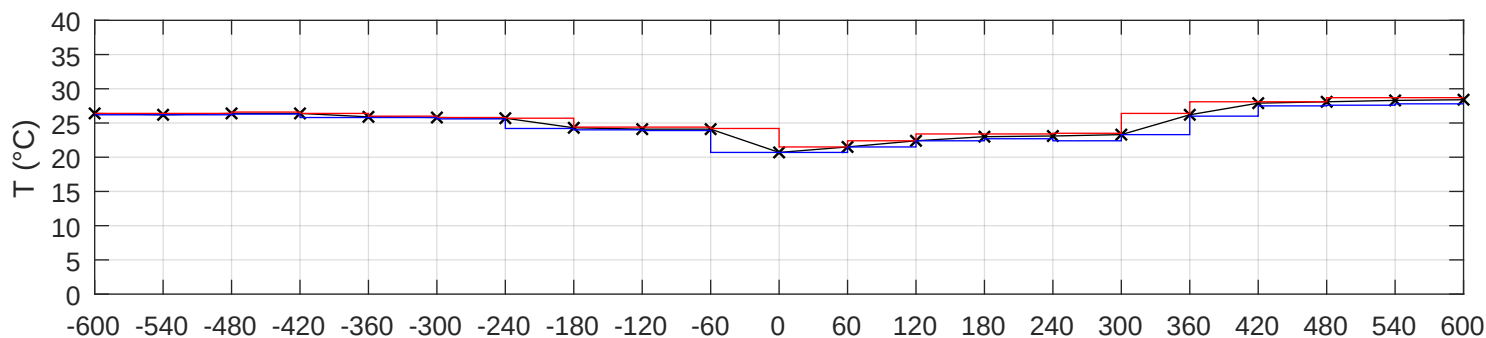
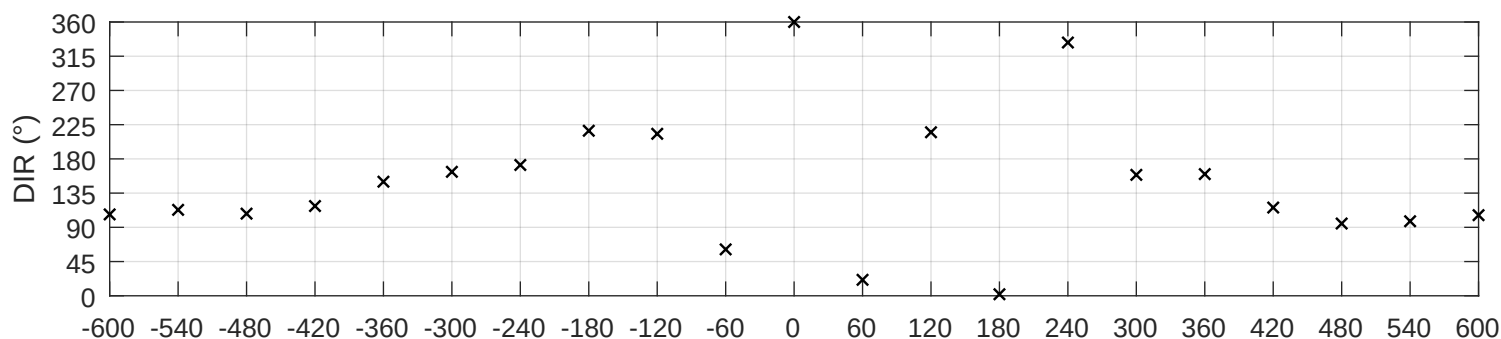
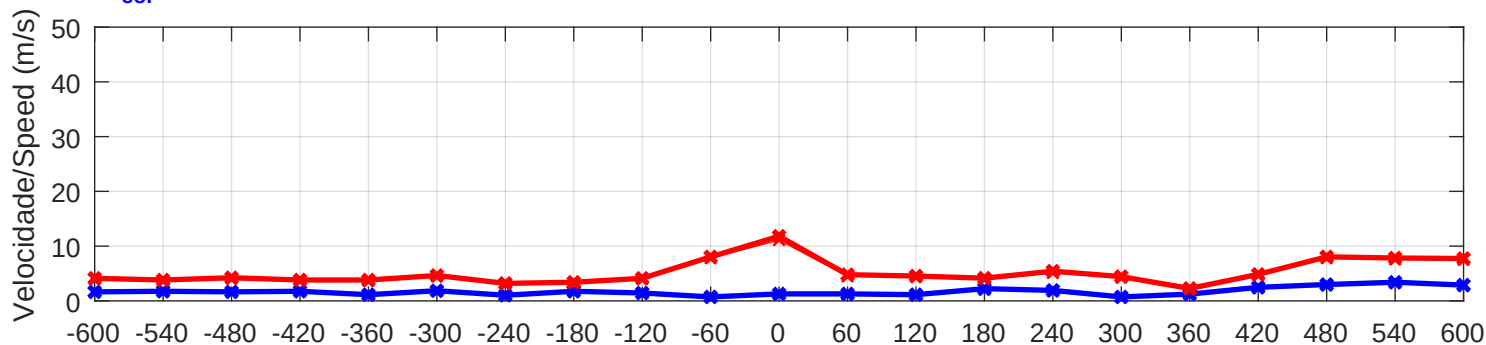
# A355/86619 EVENTO/EVENT 203 - 16/06/2013, 12:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                            | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|----------------------------------------------------|----------------------------------------|---------------------------------|
| $G_{obs} = 11.8 \text{ m/s}$   | $R_{G,-6} = 4.1$ $R_{V,-6} = 3.2$ | $T_{med,3} = 23.8 \text{ }^{\circ}\text{C}$        | $DIR = 145^{\circ}$                    | NÃO-SINÓTICO                    |
| $V_{obs} = 2.5 \text{ m/s}$    | $R_{G,-3} = 3.6$ $R_{V,-3} = 3.4$ | $\Delta T_{min,3} = -1.8 \text{ }^{\circ}\text{C}$ | $\Delta DIR_{max,-3} = 134^{\circ}$    | NON-SYNOPTIC                    |
| $G_V = 4.7$                    | $R_{G,+3} = 1.4$ $R_{V,+3} = 0.7$ | $\Delta P_{max,3} = 1.0 \text{ hPa}$               | $\Delta DIR_{max,+3} = 39^{\circ}$     | (12)                            |
| $G_{cor} = 12.2 \text{ m/s}$   | $R_{G,+6} = 1.5$ $R_{V,+6} = 0.7$ | $\Delta$ Grupo/Group = 3                           |                                        |                                 |
| $V_{cor} = 2.6 \text{ m/s}$    |                                   |                                                    |                                        |                                 |



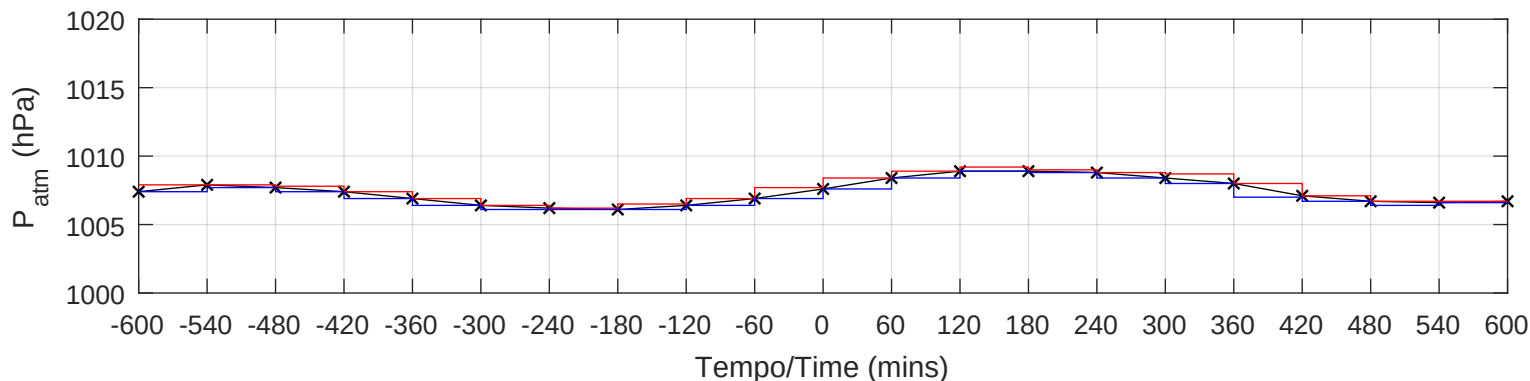
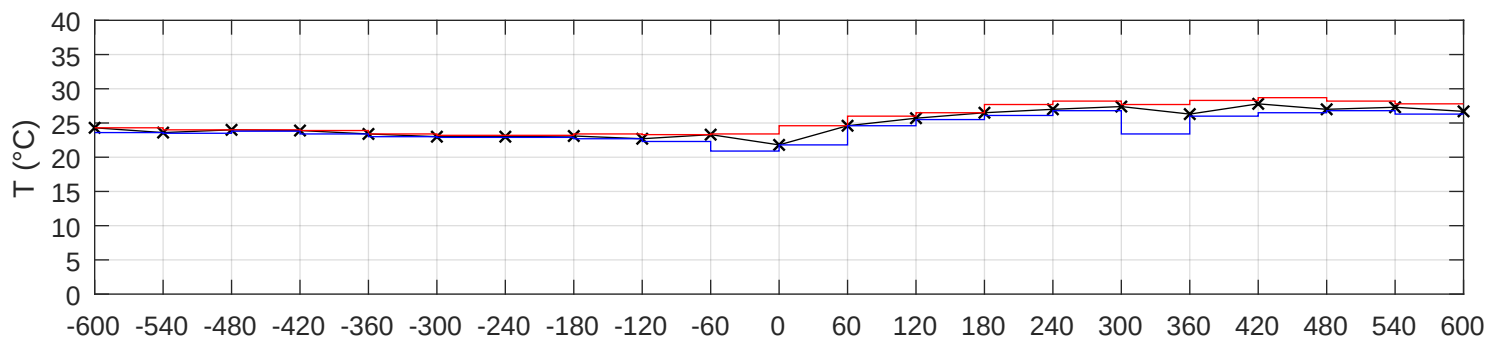
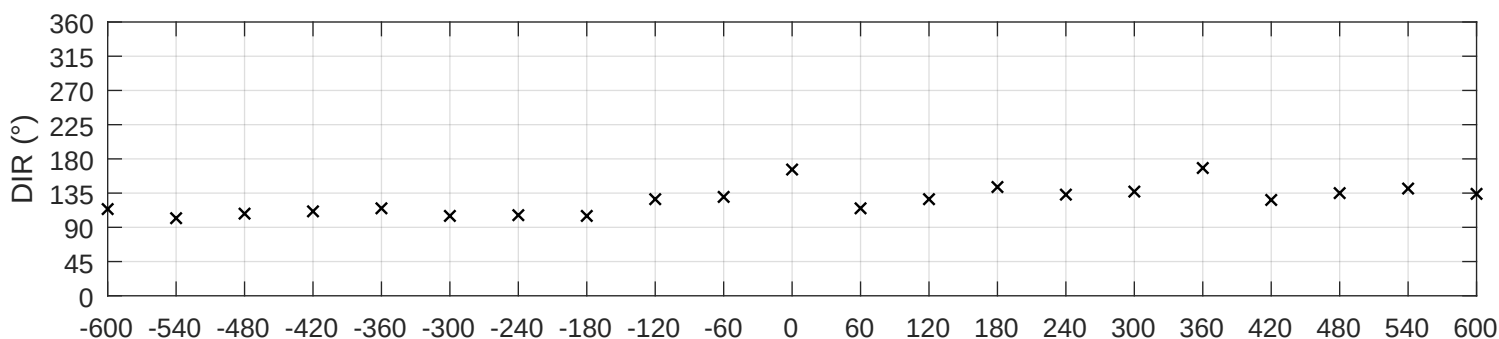
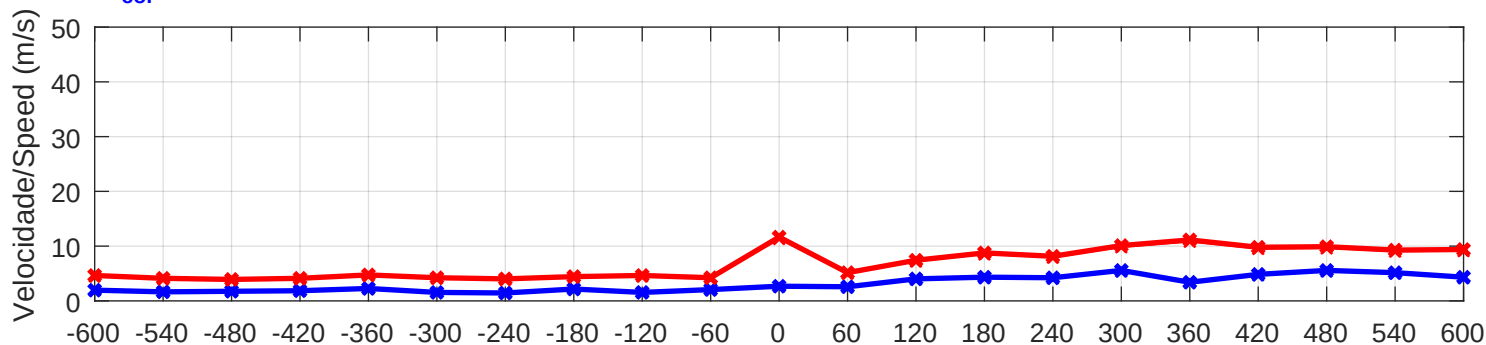
# A355/86619 EVENTO/EVENT 264 - 28/01/2019, 09:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                            | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|----------------------------------------------------|----------------------------------------|---------------------------------|
| $G_{obs} = 11.1 \text{ m/s}$   | $R_{G,-6} = 2.5$ $R_{V,-6} = 0.9$ | $T_{med,3} = 24.2 \text{ }^{\circ}\text{C}$        | $DIR = 360^{\circ}$                    | NÃO-SINÓTICO                    |
| $V_{obs} = 1.2 \text{ m/s}$    | $R_{G,-3} = 2.2$ $R_{V,-3} = 0.9$ | $\Delta T_{min,3} = -3.7 \text{ }^{\circ}\text{C}$ | $\Delta DIR_{max,-3} = 147^{\circ}$    | NON-SYNOPTIC                    |
| $G_V = 9.3$                    | $R_{G,+3} = 2.6$ $R_{V,+3} = 0.8$ | $\Delta P_{max,3} = 2.5 \text{ hPa}$               | $\Delta DIR_{max,+3} = 145^{\circ}$    | (11)                            |
| $G_{cor} = 11.8 \text{ m/s}$   | $R_{G,+6} = 2.7$ $R_{V,+6} = 0.9$ | $\Delta \text{ Grupo/Group} = 2$                   |                                        |                                 |
| $V_{cor} = 1.3 \text{ m/s}$    |                                   |                                                    |                                        |                                 |



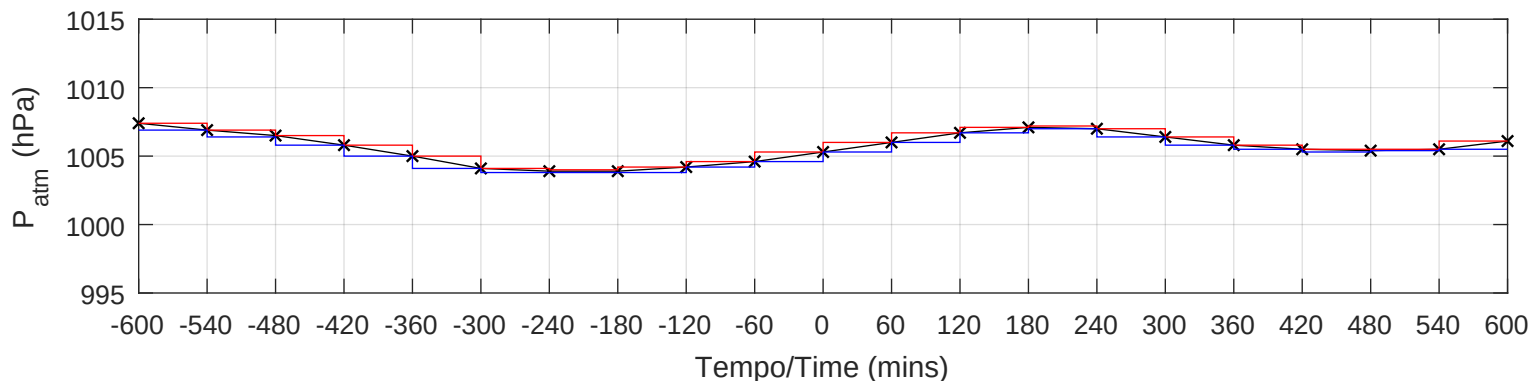
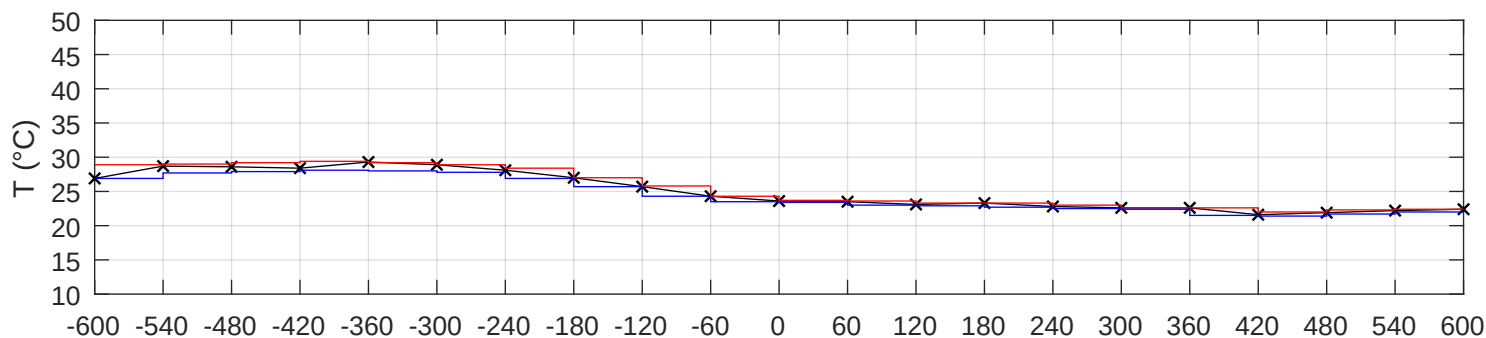
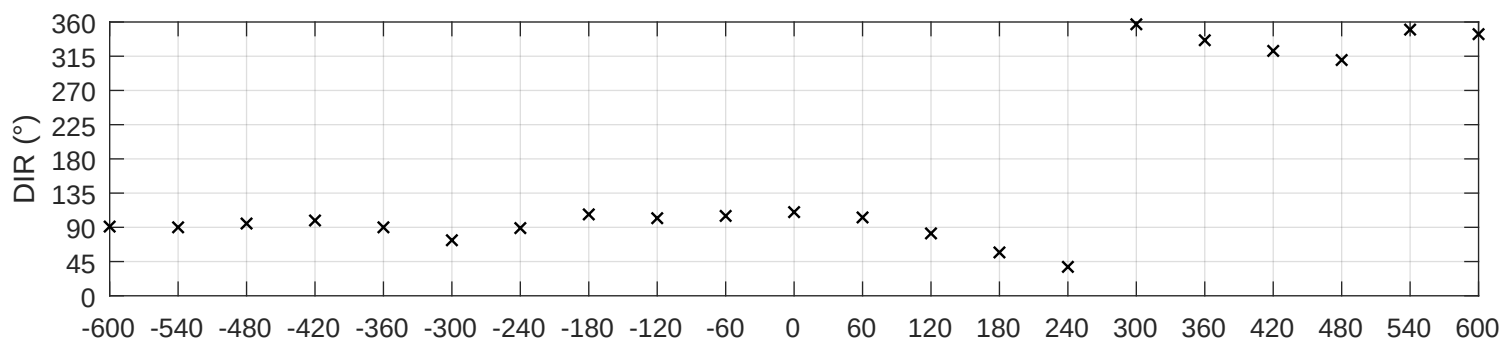
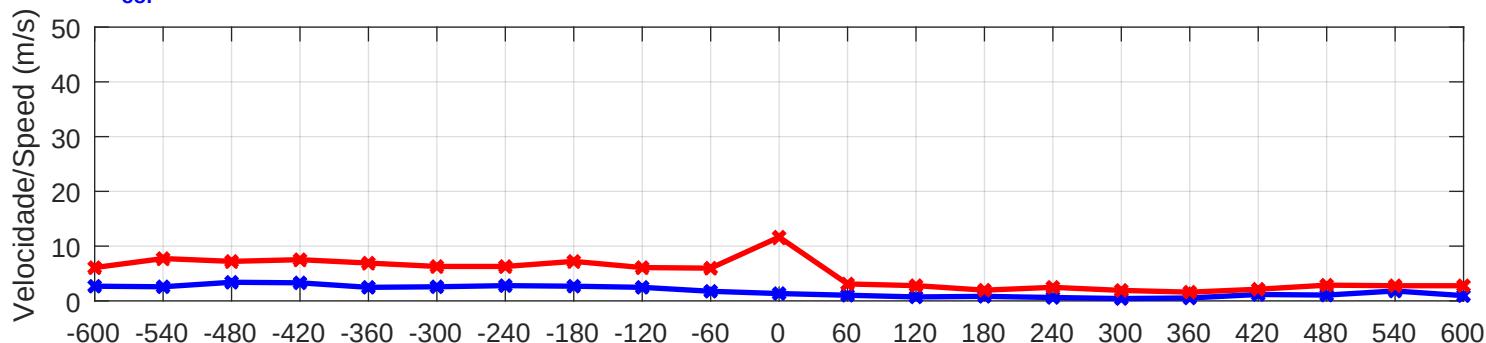
# A355/86619 EVENTO/EVENT 287 - 07/10/2008, 09:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                            | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|----------------------------------------------------|----------------------------------------|---------------------------------|
| $G_{obs} = 11.3 \text{ m/s}$   | $R_{G,-6} = 2.7$ $R_{V,-6} = 1.5$ | $T_{med,3} = 23.0 \text{ }^{\circ}\text{C}$        | $DIR = 166^{\circ}$                    | NÃO-SINÓTICO                    |
| $V_{obs} = 2.6 \text{ m/s}$    | $R_{G,-3} = 2.6$ $R_{V,-3} = 1.4$ | $\Delta T_{min,3} = -2.4 \text{ }^{\circ}\text{C}$ | $\Delta DIR_{max,-3} = 61^{\circ}$     | NON-SYNOPTIC                    |
| $G_V = 4.3$                    | $R_{G,+3} = 1.6$ $R_{V,+3} = 0.7$ | $\Delta P_{max,3} = 1.5 \text{ hPa}$               | $\Delta DIR_{max,+3} = 51^{\circ}$     | (11)                            |
| $G_{cor} = 11.6 \text{ m/s}$   | $R_{G,+6} = 1.4$ $R_{V,+6} = 0.7$ | $\Delta$ Grupo/Group = 2                           |                                        |                                 |
| $V_{cor} = 2.7 \text{ m/s}$    |                                   |                                                    |                                        |                                 |



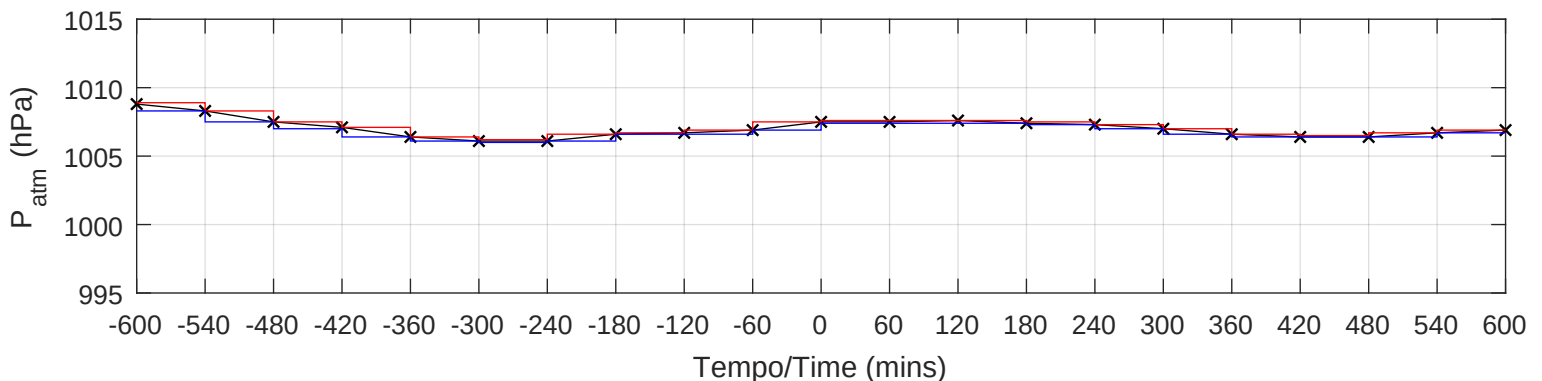
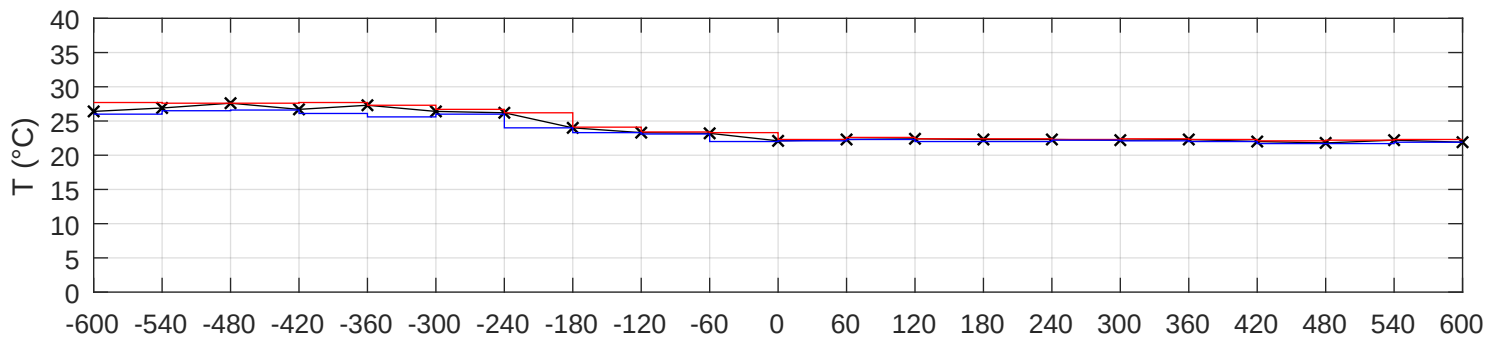
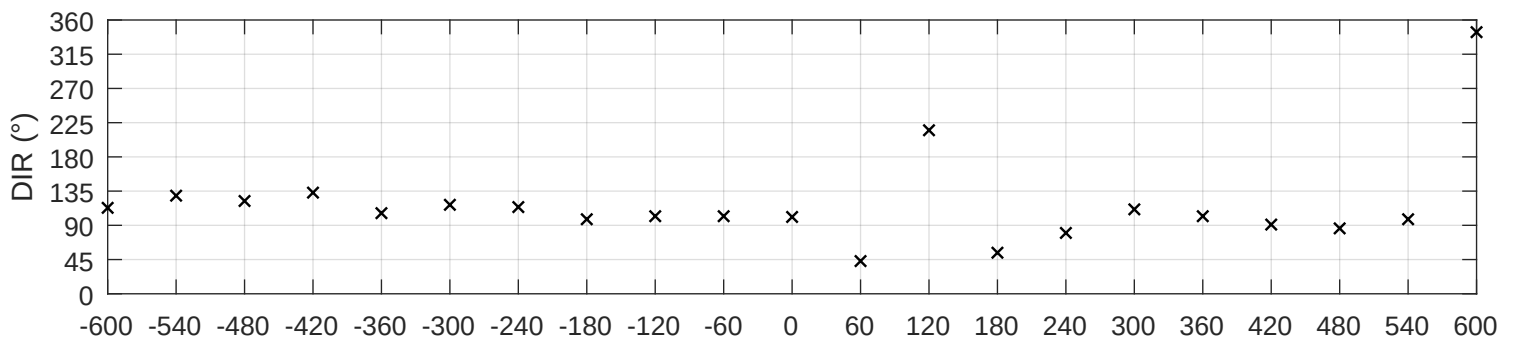
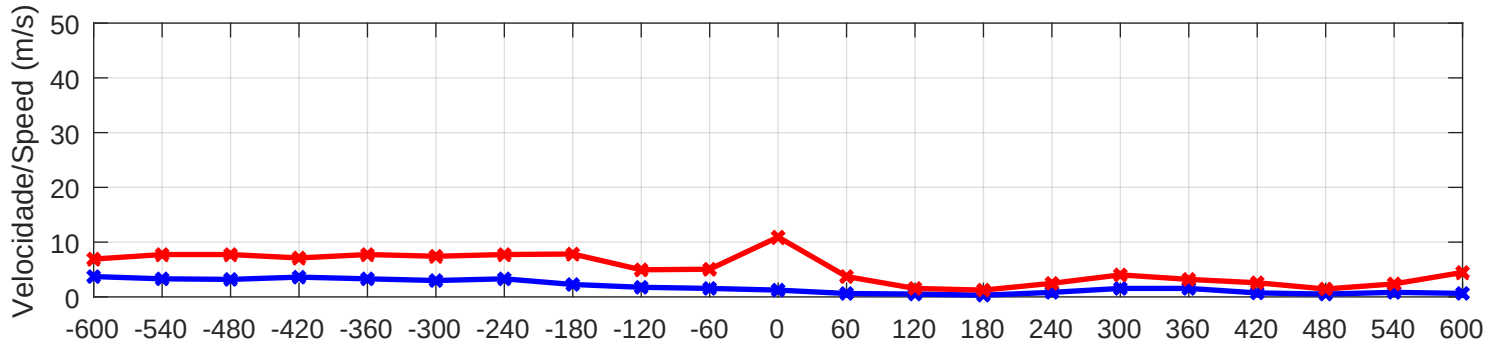
# A355/86619 EVENTO/EVENT 288 - 18/09/2009, 22:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                            | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|----------------------------------------------------|----------------------------------------|---------------------------------|
| $G_{obs} = 11.3 \text{ m/s}$   | $R_{G,-6} = 1.8$ $R_{V,-6} = 0.6$ | $T_{med,3} = 25.7 \text{ }^{\circ}\text{C}$        | $DIR = 110^{\circ}$                    | NÃO-SINÓTICO                    |
| $V_{obs} = 1.7 \text{ m/s}$    | $R_{G,-3} = 1.8$ $R_{V,-3} = 0.7$ | $\Delta T_{min,3} = -2.7 \text{ }^{\circ}\text{C}$ | $\Delta DIR_{max,-3} = 8^{\circ}$      | NON-SYNOPTIC                    |
| $G_V = 6.6$                    | $R_{G,+3} = 4.5$ $R_{V,+3} = 1.7$ | $\Delta P_{max,3} = 1.4 \text{ hPa}$               | $\Delta DIR_{max,+3} = 53^{\circ}$     | (12)                            |
| $G_{cor} = 11.6 \text{ m/s}$   | $R_{G,+6} = 5.1$ $R_{V,+6} = 2.1$ | $\Delta$ Grupo/Group = 3                           |                                        |                                 |
| $V_{cor} = 1.8 \text{ m/s}$    |                                   |                                                    |                                        |                                 |



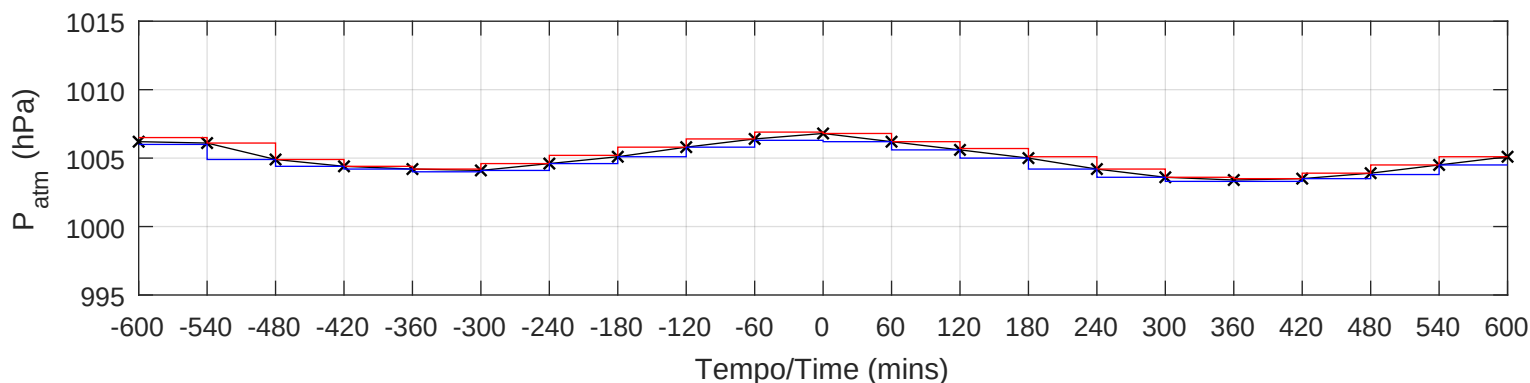
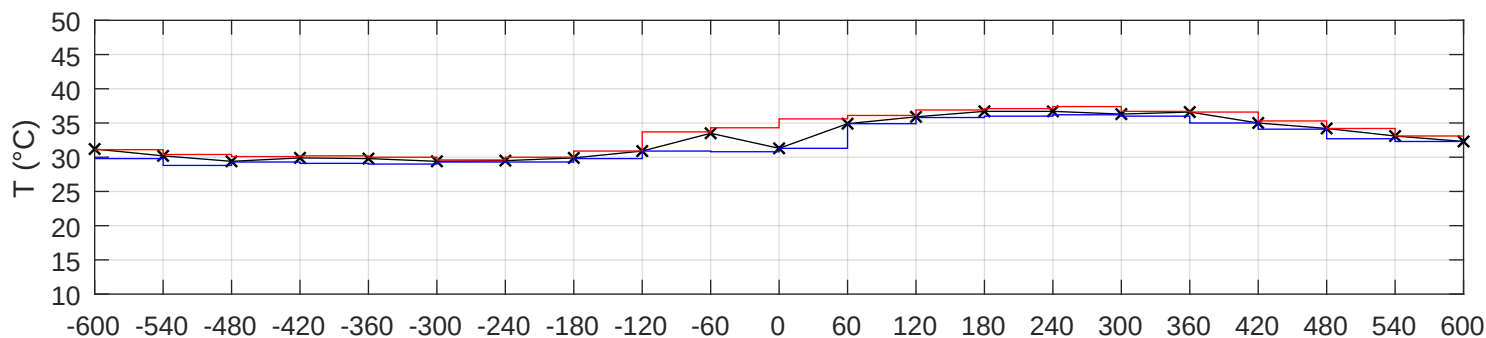
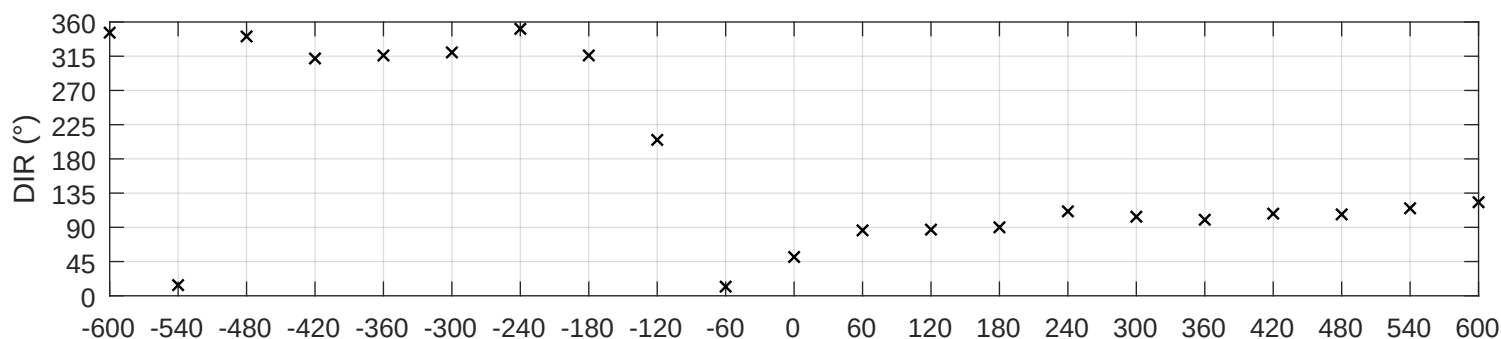
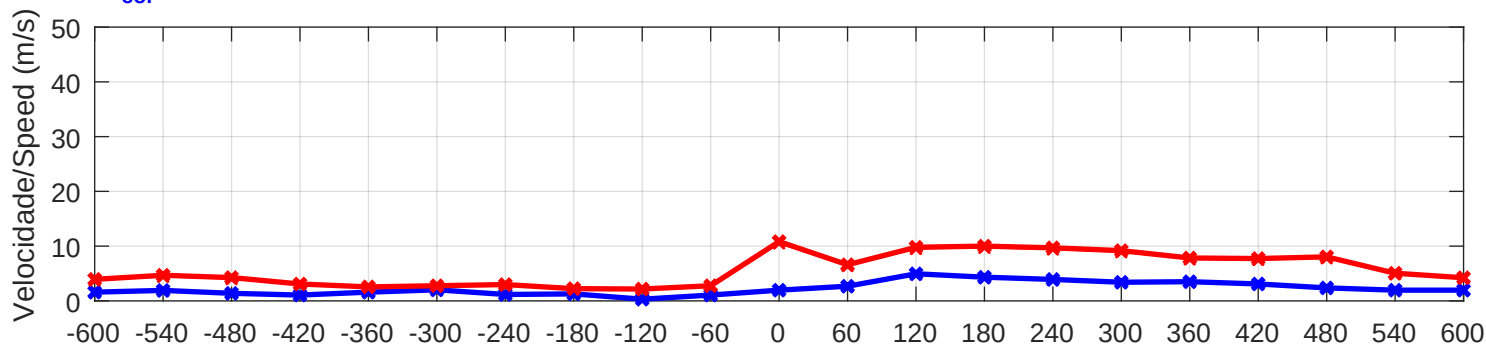
# A355/86619 EVENTO/EVENT 471 - 14/07/2013, 23:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                            | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|----------------------------------------------------|----------------------------------------|---------------------------------|
| $G_{obs} = 10.6 \text{ m/s}$   | $R_{G,-6} = 1.6$ $R_{V,-6} = 0.5$ | $T_{med,3} = 23.5 \text{ }^{\circ}\text{C}$        | $DIR = 101^{\circ}$                    | NÃO-SINÓTICO                    |
| $V_{obs} = 1.5 \text{ m/s}$    | $R_{G,-3} = 1.8$ $R_{V,-3} = 0.6$ | $\Delta T_{min,3} = -1.4 \text{ }^{\circ}\text{C}$ | $\Delta DIR_{max,-3} = 3^{\circ}$      | NON-SYNOPTIC                    |
| $G_V = 7.1$                    | $R_{G,+3} = 5.0$ $R_{V,+3} = 2.0$ | $\Delta P_{max,3} = 0.9 \text{ hPa}$               | $\Delta DIR_{max,+3} = 114^{\circ}$    | (12)                            |
| $G_{cor} = 10.9 \text{ m/s}$   | $R_{G,+6} = 4.1$ $R_{V,+6} = 1.8$ | $\Delta$ Grupo/Group = 3                           |                                        |                                 |
| $V_{cor} = 1.5 \text{ m/s}$    |                                   |                                                    |                                        |                                 |



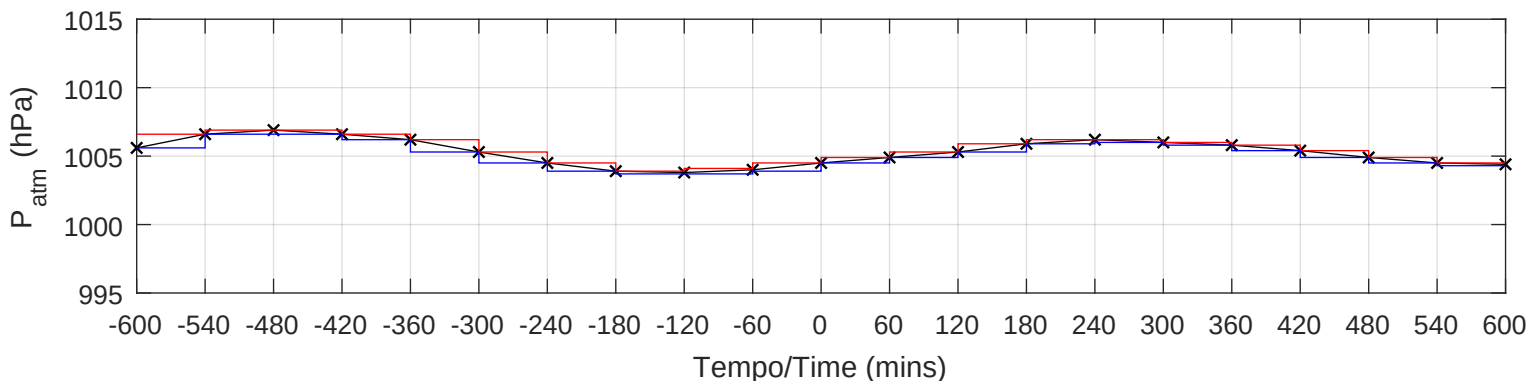
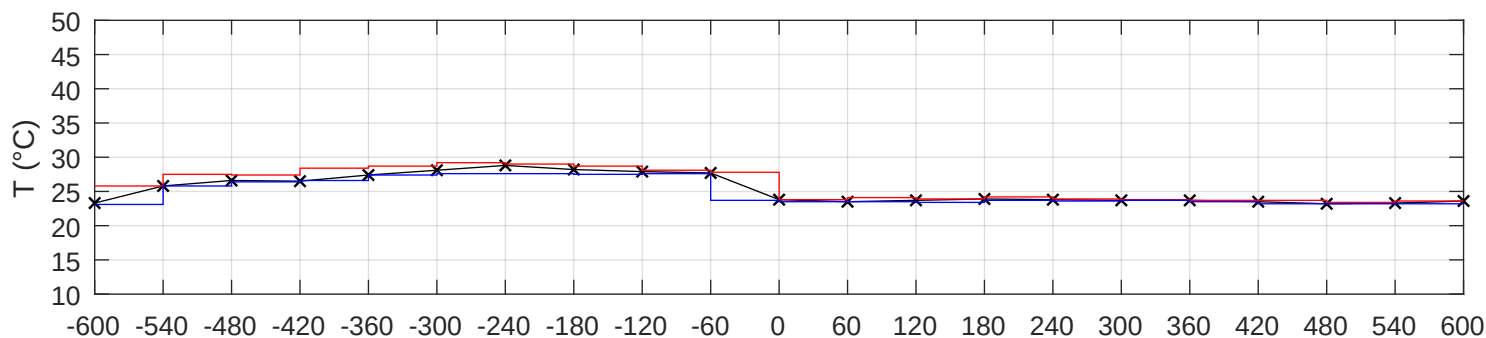
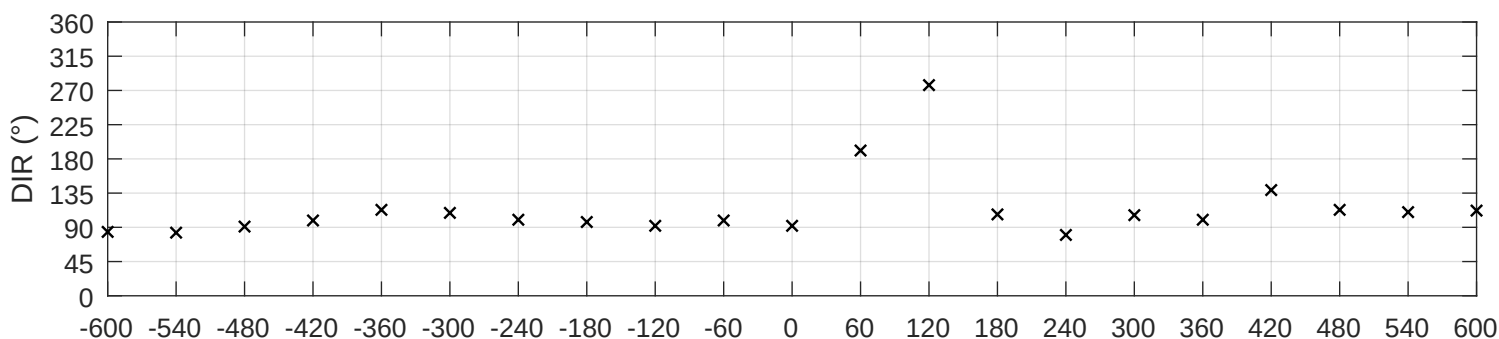
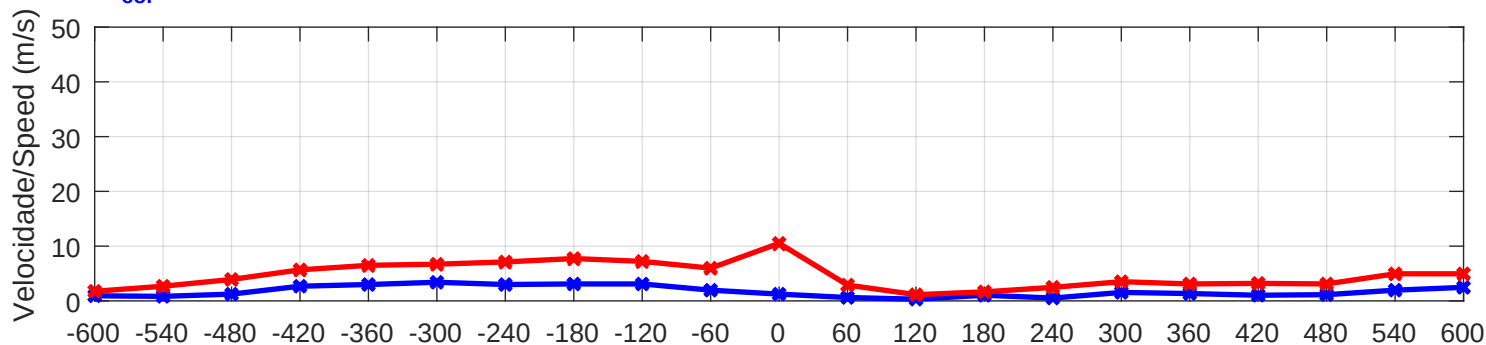
# A355/86619 EVENTO/EVENT 507 - 14/05/2015, 12:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                            | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|----------------------------------------------------|----------------------------------------|---------------------------------|
| $G_{obs} = 10.5 \text{ m/s}$   | $R_{G,-6} = 4.3$ $R_{V,-6} = 1.6$ | $T_{med,3} = 31.4 \text{ }^{\circ}\text{C}$        | $DIR = 51^{\circ}$                     | NÃO-SINÓTICO                    |
| $V_{obs} = 1.9 \text{ m/s}$    | $R_{G,-3} = 4.6$ $R_{V,-3} = 2.3$ | $\Delta T_{min,3} = -3.0 \text{ }^{\circ}\text{C}$ | $\Delta DIR_{max,-3} = 154^{\circ}$    | NON-SYNOPTIC                    |
| $G_V = 5.5$                    | $R_{G,+3} = 1.2$ $R_{V,+3} = 0.5$ | $\Delta P_{max,3} = 1.3 \text{ hPa}$               | $\Delta DIR_{max,+3} = 39^{\circ}$     | (12)                            |
| $G_{cor} = 10.8 \text{ m/s}$   | $R_{G,+6} = 1.2$ $R_{V,+6} = 0.5$ | $\Delta$ Grupo/Group = 3                           |                                        |                                 |
| $V_{cor} = 2.0 \text{ m/s}$    |                                   |                                                    |                                        |                                 |



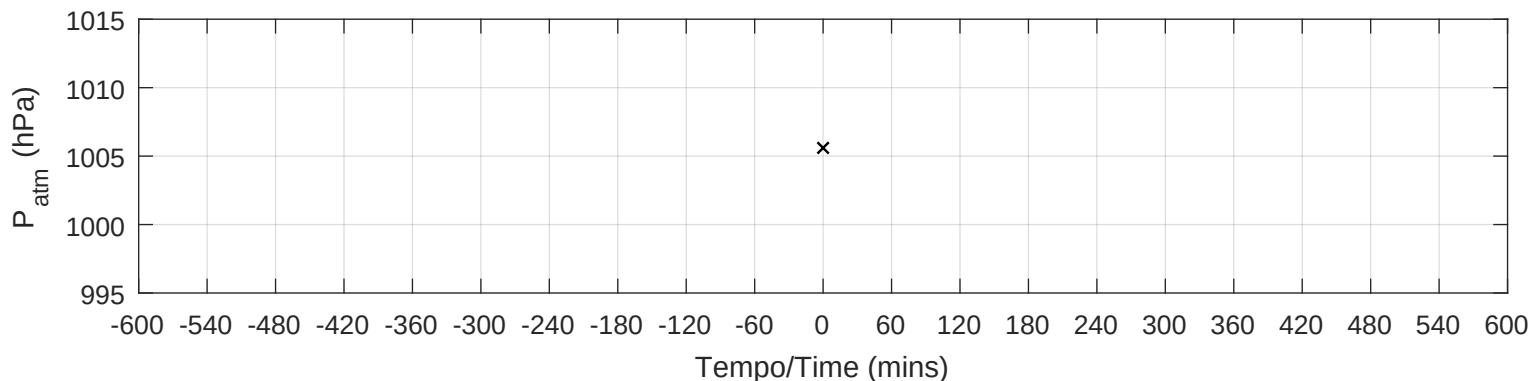
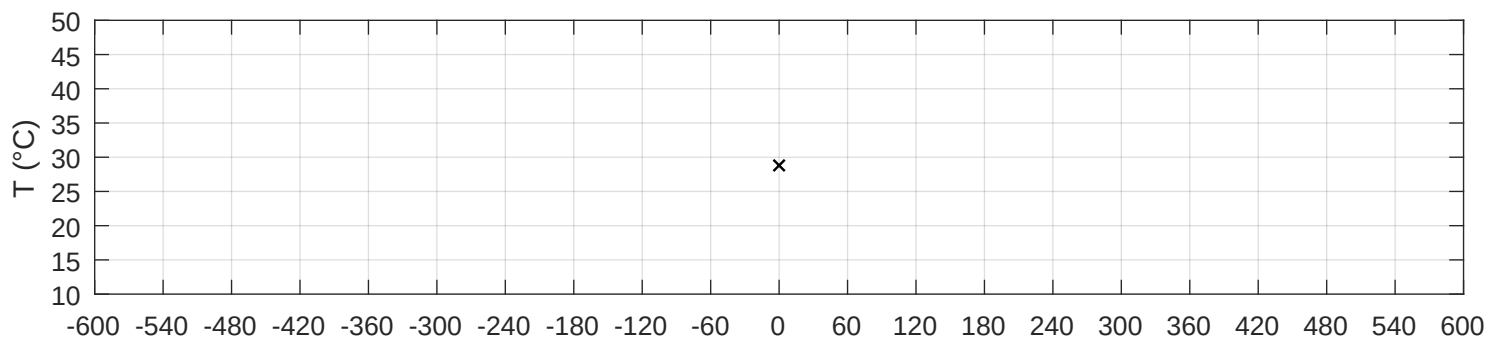
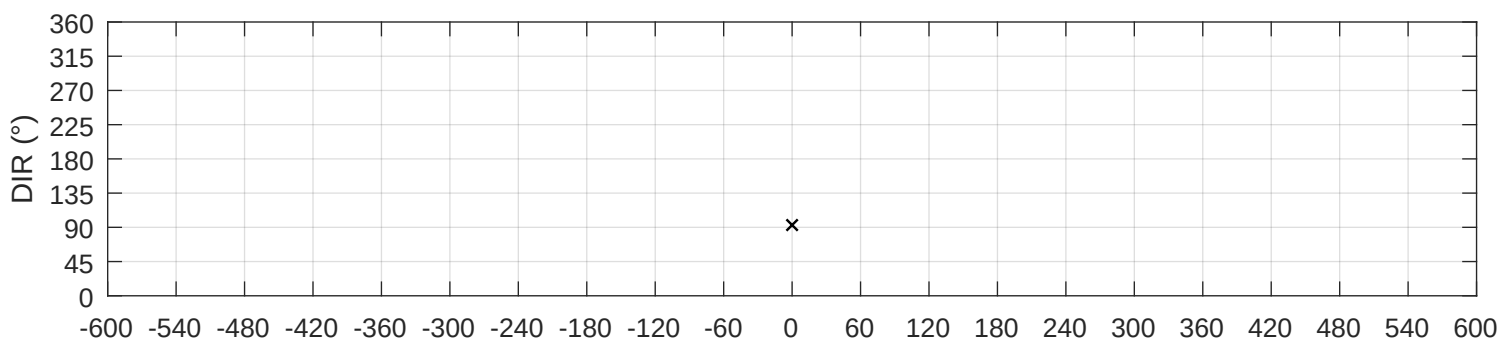
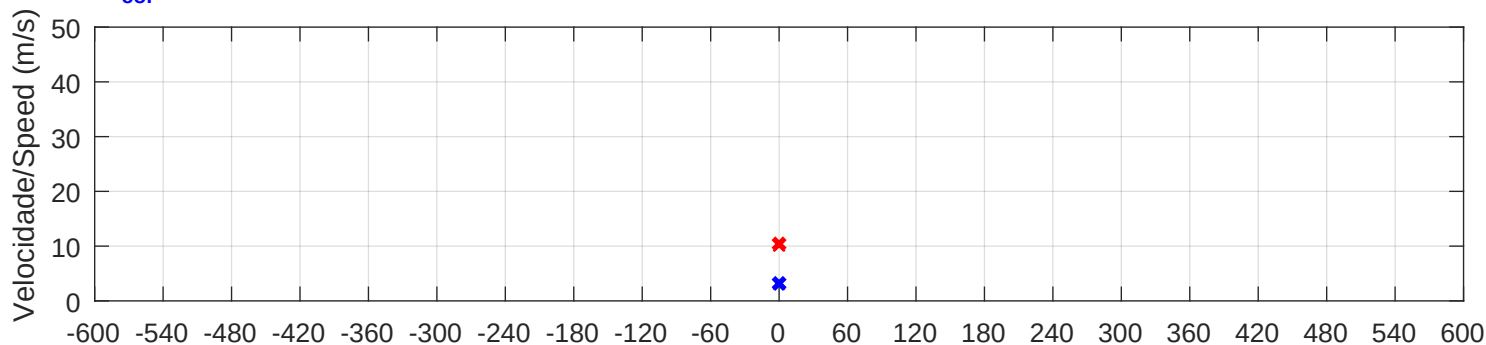
# A355/86619 EVENTO/EVENT 585 - 19/06/2013, 20:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                            | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|----------------------------------------------------|----------------------------------------|---------------------------------|
| $G_{obs} = 10.2 \text{ m/s}$   | $R_{G,-6} = 1.5$ $R_{V,-6} = 0.6$ | $T_{med,3} = 27.9 \text{ }^{\circ}\text{C}$        | $DIR = 92^{\circ}$                     | NÃO-SINÓTICO                    |
| $V_{obs} = 1.9 \text{ m/s}$    | $R_{G,-3} = 1.5$ $R_{V,-3} = 0.6$ | $\Delta T_{min,3} = -4.4 \text{ }^{\circ}\text{C}$ | $\Delta DIR_{max,-3} = 7^{\circ}$      | NON-SYNOPTIC                    |
| $G_V = 5.4$                    | $R_{G,+3} = 5.6$ $R_{V,+3} = 2.7$ | $\Delta P_{max,3} = 1.0 \text{ hPa}$               | $\Delta DIR_{max,+3} = 175^{\circ}$    | (12)                            |
| $G_{cor} = 10.5 \text{ m/s}$   | $R_{G,+6} = 4.3$ $R_{V,+6} = 2.2$ | $\Delta$ Grupo/Group = 3                           |                                        |                                 |
| $V_{cor} = 2.0 \text{ m/s}$    |                                   |                                                    |                                        |                                 |



# A355/86619 EVENTO/EVENT 624 - 28/05/2019, 13:00 UTC (WRDS - WEB)

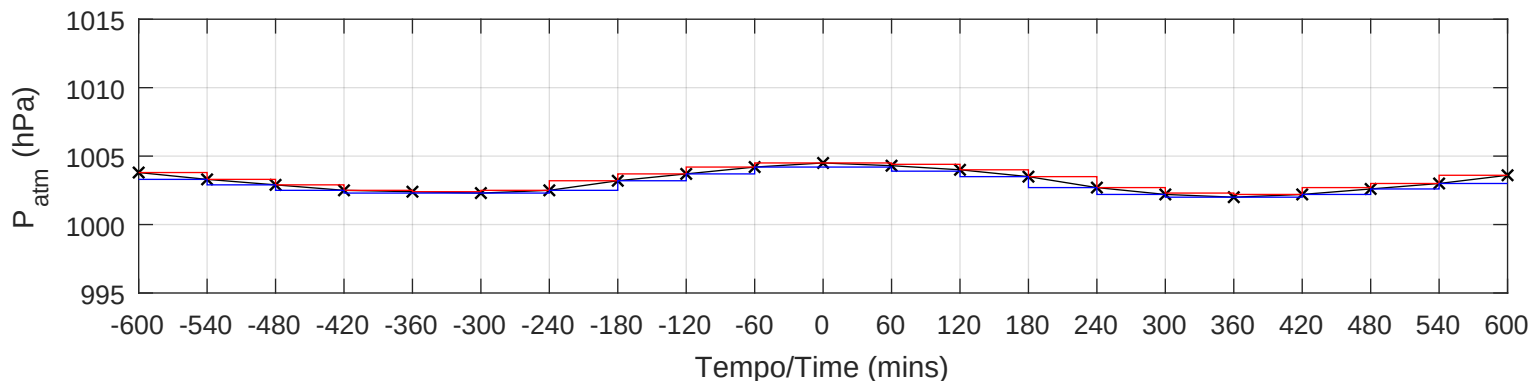
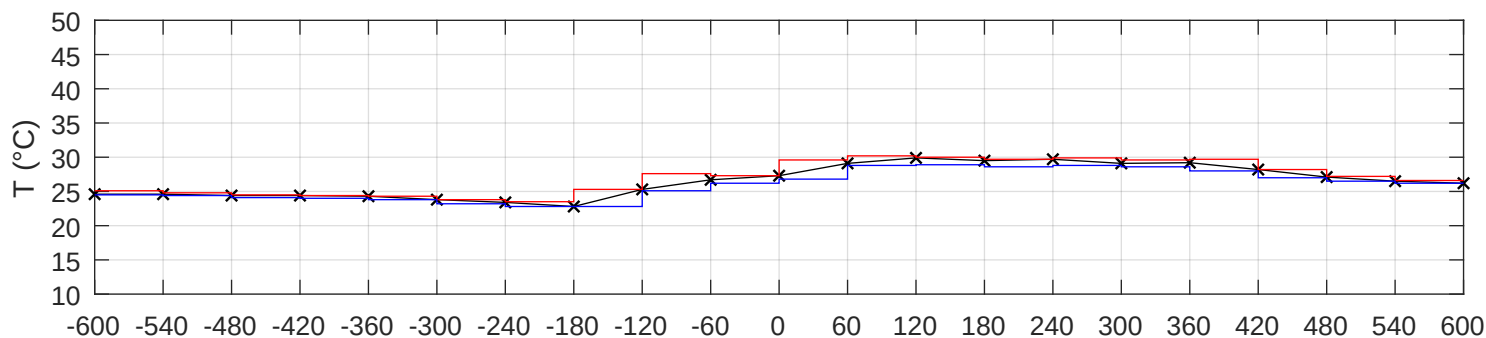
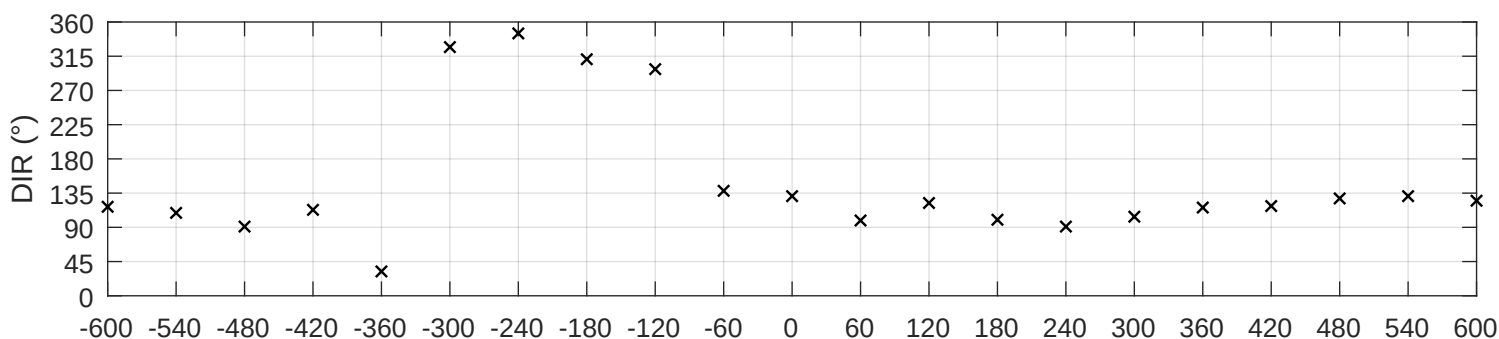
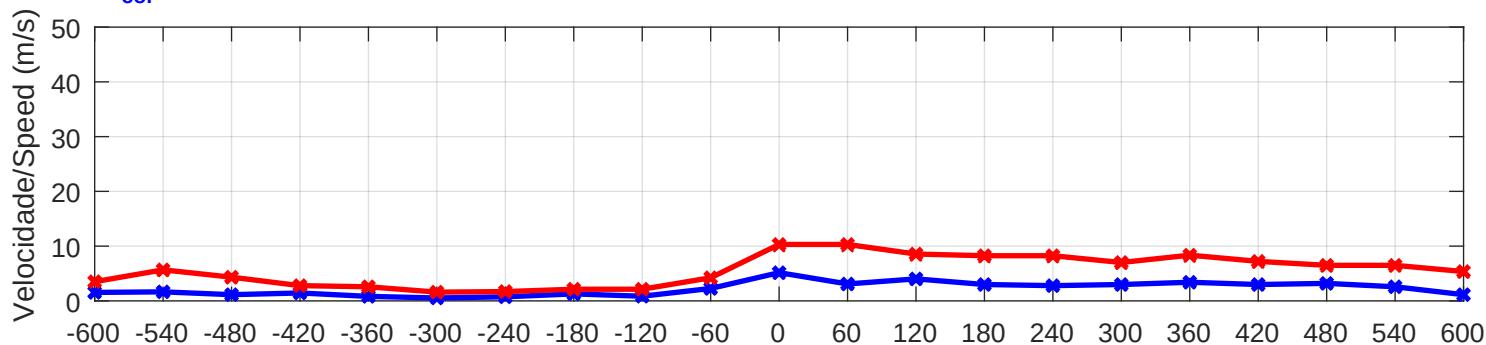
| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios   | $\Delta$ Temp. & Press.  | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|---------------------------------|--------------------------|----------------------------------------|---------------------------------|
| $G_{obs} = 10.1 \text{ m/s}$   | $R_{G,-6} = []$ $R_{V,-6} = []$ | $T_{med,3} = []$         | $DIR = 93^\circ$                       | NÃO-SINÓTICO                    |
| $V_{obs} = 3.1 \text{ m/s}$    | $R_{G,-3} = []$ $R_{V,-3} = []$ | $\Delta T_{min,3} = []$  | $\Delta DIR_{max,-3} = []$             | NON-SYNOPTIC                    |
| $G_V = 3.3$                    | $R_{G,+3} = []$ $R_{V,+3} = []$ | $\Delta P_{max,3} = []$  | $\Delta DIR_{max,+3} = []$             | (12)                            |
| $G_{cor} = 10.4 \text{ m/s}$   | $R_{G,+6} = []$ $R_{V,+6} = []$ | $\Delta$ Grupo/Group = 3 |                                        |                                 |
| $V_{cor} = 3.2 \text{ m/s}$    |                                 |                          |                                        |                                 |





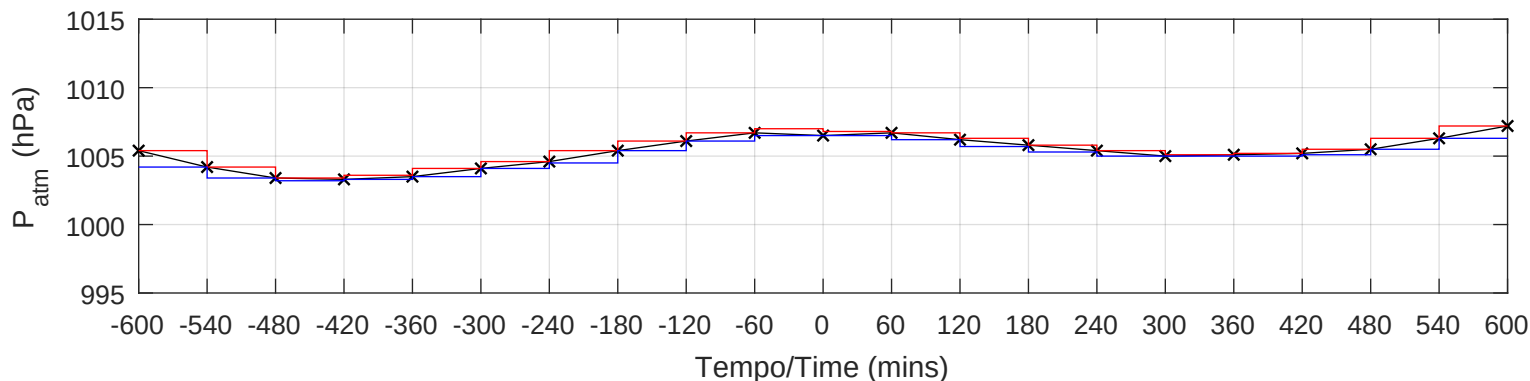
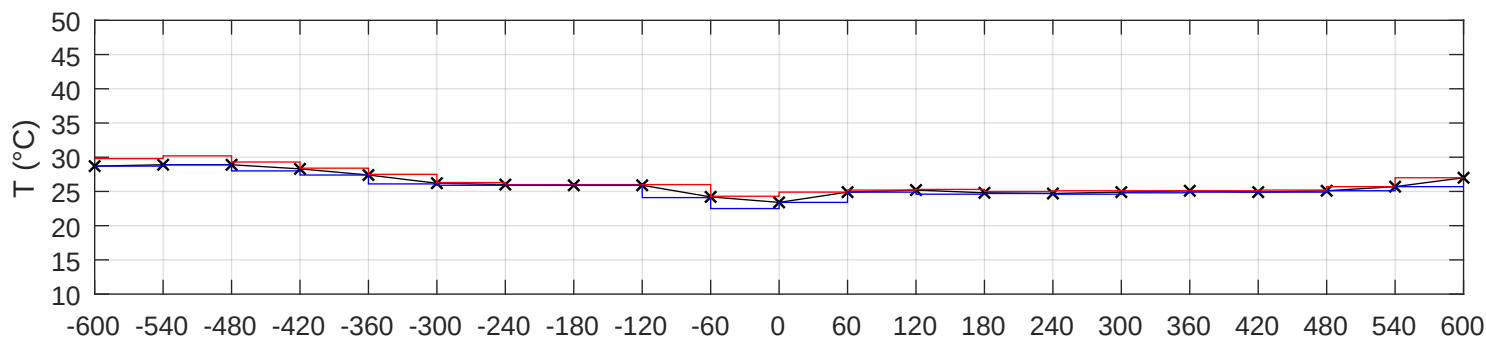
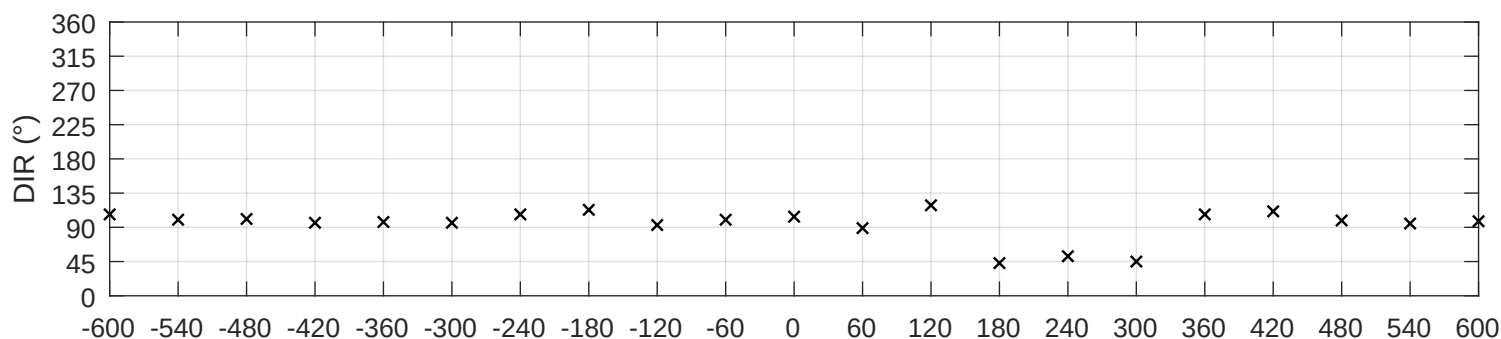
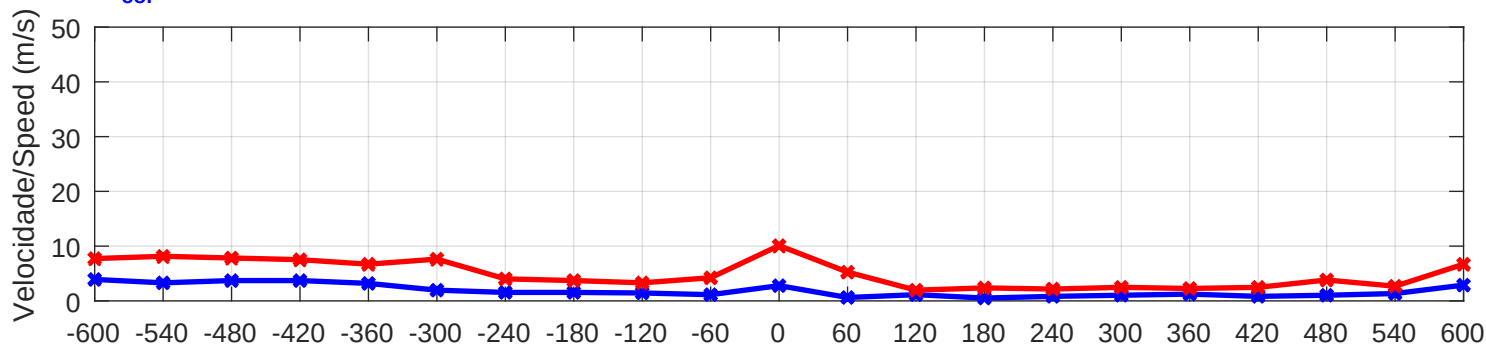
# A355/86619 EVENTO/EVENT 631 - 27/03/2012, 12:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                            | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|----------------------------------------------------|----------------------------------------|---------------------------------|
| $G_{obs} = 10.0 \text{ m/s}$   | $R_{G,-6} = 4.4$ $R_{V,-6} = 4.8$ | $T_{med,3} = 24.9 \text{ }^{\circ}\text{C}$        | $DIR = 131^{\circ}$                    | NÃO-SINÓTICO                    |
| $V_{obs} = 5.0 \text{ m/s}$    | $R_{G,-3} = 3.7$ $R_{V,-3} = 3.6$ | $\Delta T_{min,3} = -1.4 \text{ }^{\circ}\text{C}$ | $\Delta DIR_{max,-3} = 180^{\circ}$    | NON-SYNOPTIC                    |
| $G_V = 2.0$                    | $R_{G,+3} = 1.1$ $R_{V,+3} = 1.5$ | $\Delta P_{max,3} = 1.0 \text{ hPa}$               | $\Delta DIR_{max,+3} = 32^{\circ}$     | (12)                            |
| $G_{cor} = 10.3 \text{ m/s}$   | $R_{G,+6} = 1.2$ $R_{V,+6} = 1.6$ | $\Delta$ Grupo/Group = 3                           |                                        |                                 |
| $V_{cor} = 5.2 \text{ m/s}$    |                                   |                                                    |                                        |                                 |



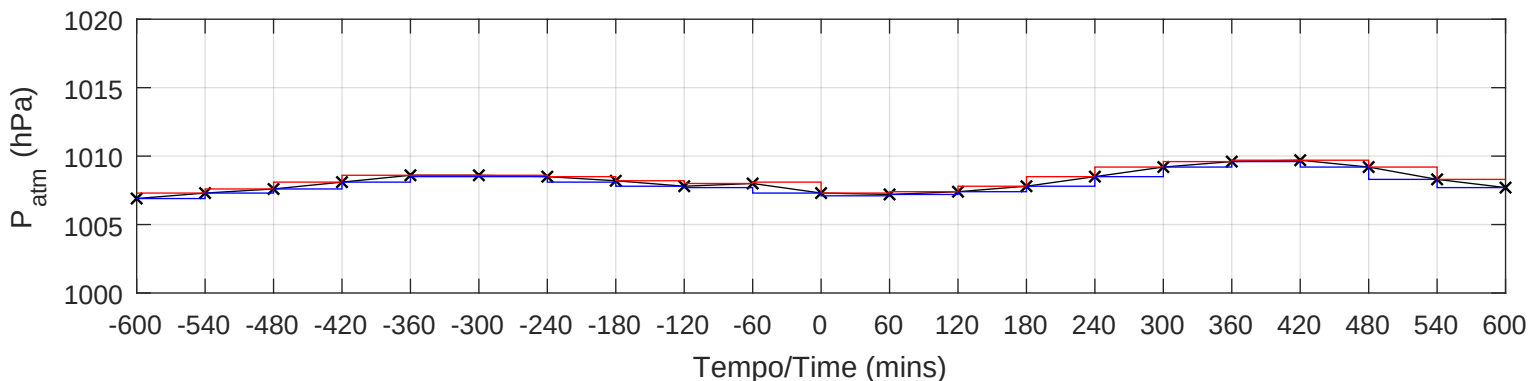
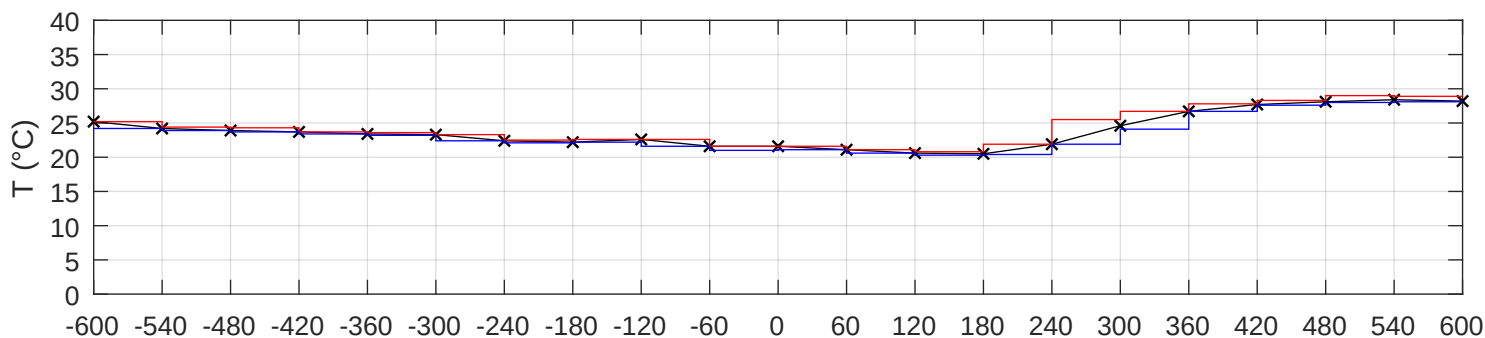
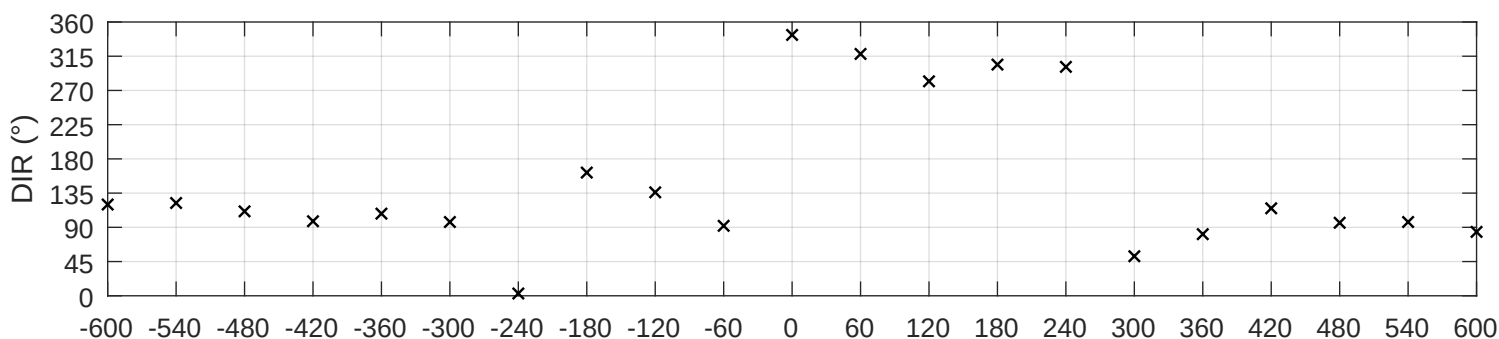
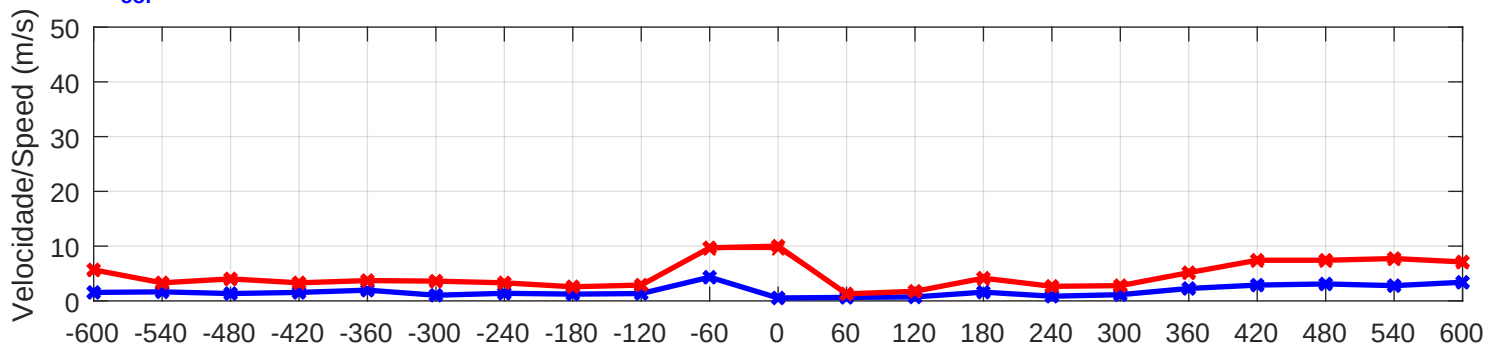
# A355/86619 EVENTO/EVENT 669 - 26/05/2013, 01:00 UTC (WRDS - WEB)

| Valores de Pico<br>Peak Values | Razões de Pico<br>Peak Ratios     | $\Delta$ Temp. & Press.                            | $\Delta$ Direção<br>$\Delta$ Direction | Classificação<br>Classification |
|--------------------------------|-----------------------------------|----------------------------------------------------|----------------------------------------|---------------------------------|
| $G_{obs} = 9.8 \text{ m/s}$    | $R_{G,-6} = 2.0$ $R_{V,-6} = 1.5$ | $T_{med,3} = 25.3 \text{ }^{\circ}\text{C}$        | $DIR = 104^{\circ}$                    | NÃO-SINÓTICO                    |
| $V_{obs} = 2.7 \text{ m/s}$    | $R_{G,-3} = 2.7$ $R_{V,-3} = 2.0$ | $\Delta T_{min,3} = -3.5 \text{ }^{\circ}\text{C}$ | $\Delta DIR_{max,-3} = 11^{\circ}$     | NON-SYNOPTIC                    |
| $G_V = 3.6$                    | $R_{G,+3} = 3.2$ $R_{V,+3} = 3.7$ | $\Delta P_{max,3} = 1.3 \text{ hPa}$               | $\Delta DIR_{max,+3} = 61^{\circ}$     | (11)                            |
| $G_{cor} = 10.1 \text{ m/s}$   | $R_{G,+6} = 3.7$ $R_{V,+6} = 3.1$ | $\Delta$ Grupo/Group = 2                           |                                        |                                 |
| $V_{cor} = 2.8 \text{ m/s}$    |                                   |                                                    |                                        |                                 |



# A355/86619 EVENTO/EVENT 704 - 14/06/2018, 06:00 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 |
|--------------------------------|-----------------------------------|----------------------------------------------------|----------------------------------------|---------------------------------|
| $G_{obs} = 9.4 \text{ m/s}$    | $R_{G,-6} = 2.3$ $R_{V,-6} = 3.1$ | $T_{med,3} = 22.1 \text{ }^{\circ}\text{C}$        | $DIR = 343^{\circ}$                    | NÃO-SINÓTICO                    |
| $V_{obs} = 4.2 \text{ m/s}$    | $R_{G,-3} = 1.9$ $R_{V,-3} = 3.3$ | $\Delta T_{min,3} = -1.6 \text{ }^{\circ}\text{C}$ | $\Delta DIR_{max,-3} = 179^{\circ}$    | NON-SYNOPTIC                    |
| $G_V = 2.2$                    | $R_{G,+3} = 4.1$ $R_{V,+3} = 7.0$ | $\Delta P_{max,3} = 0.4 \text{ hPa}$               | $\Delta DIR_{max,+3} = 61^{\circ}$     | (12)                            |
| $G_{cor} = 10.0 \text{ m/s}$   | $R_{G,+6} = 3.3$ $R_{V,+6} = 4.8$ | $\Delta$ Grupo/Group = 3                           |                                        |                                 |
| $V_{cor} = 4.3 \text{ m/s}$    |                                   |                                                    |                                        |                                 |



# A355/86619 EVENTO/EVENT 835 - 27/06/2014, 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 |
|--------------------------------|-----------------------------------|----------------------------------------------------|----------------------------------------|---------------------------------|
| $G_{obs} = 8.4 \text{ m/s}$    | $R_{G,-6} = 3.0$ $R_{V,-6} = 1.4$ | $T_{med,3} = 22.0 \text{ }^{\circ}\text{C}$        | $DIR = 134^{\circ}$                    | NÃO-SINÓTICO                    |
| $V_{obs} = 1.9 \text{ m/s}$    | $R_{G,-3} = 2.6$ $R_{V,-3} = 1.3$ | $\Delta T_{min,3} = -0.9 \text{ }^{\circ}\text{C}$ | $\Delta DIR_{max,-3} = 130^{\circ}$    | NON-SYNOPTIC                    |
| $G_V = 4.4$                    | $R_{G,+3} = 3.0$ $R_{V,+3} = 1.4$ | $\Delta P_{max,3} = 1.1 \text{ hPa}$               | $\Delta DIR_{max,+3} = 172^{\circ}$    | (12)                            |
| $G_{cor} = 8.7 \text{ m/s}$    | $R_{G,+6} = 1.9$ $R_{V,+6} = 1.1$ | $\Delta$ Grupo/Group = 3                           |                                        |                                 |
| $V_{cor} = 2.0 \text{ m/s}$    |                                   |                                                    |                                        |                                 |

