

# Divergences of All Frontal Passages

| 1997<br>-<br>2011 | Beginning<br>Divergence<br>(CPS3+) | Beginning<br>Divergence<br>(CPS5+) | Middle<br>Divergence<br>(CPS3+) | Middle<br>Divergence<br>(CPS5+) | Ending<br>Divergence<br>(CPS3+) | Ending<br>Divergence<br>(CPS5+) | # Triangles<br>in Frontal<br>Passages<br>(CPS 3+/5+) |
|-------------------|------------------------------------|------------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|------------------------------------------------------|
| Total             | -1.31E-04                          | -1.87E-04                          | -8.67E-06                       | -1.47E-05                       | 7.47E-05                        | 1.01E-04                        | 74,906 /<br>26,551                                   |
| Spring<br>(MAM)   | -1.40E-04                          | -2.00E-04                          | -1.33E-05                       | -2.16E-05                       | 6.50E-05                        | 8.12E-05                        | 24,684 /<br>8,635                                    |
| Summer<br>(JJA)   | -1.31E-04                          | -1.72E-04                          | 2.15E-05                        | 2.90E-05                        | 1.23E-04                        | 1.60E-04                        | 23,706 /<br>9,362                                    |
| Fall (SON)        | -1.36E-04                          | -2.02E-04                          | -2.93E-05                       | -5.12E-05                       | 5.73E-05                        | 7.96E-05                        | 13,500 /<br>4,579                                    |
| Winter<br>(DJF)   | -1.09E-04                          | -1.76E-04                          | -3.34E-05                       | -6.06E-05                       | 2.33E-05                        | 3.03E-05                        | 13,016 /<br>3,975                                    |

# Divergences of Frontal Passages that Include Cold Pools

| 1997<br>-<br>2011 | Beginning<br>Div.<br>(CPS3+) | Beginning<br>Div.<br>(CPS5+) | Middle<br>Div.<br>(CPS3+) | Middle<br>Div.<br>(CPS5+) | Ending<br>Div.<br>(CPS3+) | Ending<br>Div.<br>(CPS5+) | # Triangles<br>in Frontal<br>Passages<br>(CPS 3+/5+) | % of Fronts<br>with Cold<br>Pools<br>(CPS3+/5+) |
|-------------------|------------------------------|------------------------------|---------------------------|---------------------------|---------------------------|---------------------------|------------------------------------------------------|-------------------------------------------------|
| Total             | -1.28E-04                    | -1.79E-04                    | 3.98E-05                  | 3.44E-05                  | 1.37E-04                  | 1.56E-04                  | 44,967 /<br>18,161                                   | 60.0% /<br>68.4%                                |
| Spring<br>(MAM)   | -1.35E-04                    | -1.88E-04                    | 3.78E-05                  | 3.21E-05                  | 1.25E-04                  | 1.35E-04                  | 14,493 /<br>5,644                                    | 58.7% /<br>65.4%                                |
| Summer<br>(JJA)   | -1.28E-04                    | -1.69E-04                    | 5.04E-05                  | 5.12E-05                  | 1.60E-04                  | 1.87E-04                  | 18,859 /<br>8,170                                    | 79.6% /<br>87.3%                                |
| Fall<br>(SON)     | -1.34E-04                    | -1.99E-04                    | 2.33E-05                  | 3.95E-06                  | 1.25E-04                  | 1.43E-04                  | 6,993 /<br>2,719                                     | 51.8% /<br>59.4%                                |
| Winter<br>(DJF)   | -9.86E-04                    | -1.63E-04                    | 2.79E-05                  | 8.73E-06                  | 9.47E-05                  | 9.68E-05                  | 4,622 /<br>1,628                                     | 35.5% /<br>41.0%                                |