

Precipitation (Mesonet)

Average Correlation	Mu Md	Mu+ Md+	Mu Precip	Md Precip	Mu+ Precip	Md+ Precip
Spring	0.31	0.69	0.43	0.42	0.49	0.55
Summer	0.53	0.78	0.48	0.48	0.55	0.59
Fall	0.28	0.67	0.40	0.31	0.46	0.44
Winter	0.24	0.65	0.26	0.17	0.31	0.27
Annual	0.35	0.70	0.40	0.37	0.46	0.49

Front divergences

1997-2011	Beginning Divergence (FS3+)	Beginning Divergence (FS5+)	Middle Divergence (FS3+)	Middle Divergence (FS5+)	End Divergence (FS3+)	End Divergence (FS5+)	# triangles with frontal passage (FS 3+/5+)
Total	-1.32E-04	-1.87E-04	-1.10E-05	-1.83E-05	7.50E-05	1.01E-04	72,144/25,628
Spring (MAM)	-1.40E-04	-2.00E-04	-1.55E-05	-2.55E-05	6.50E-05	8.08E-05	23,811/8,329
Summer (JJA)	-1.32E-04	-1.72E-04	1.87E-05	2.47E-05	1.24E-04	1.61E-04	22,785/9,014
Fall (SON)	-1.37E-04	-2.02E-04	-3.12E-05	-5.30E-05	5.74E-05	8.03E-05	13,009/4,442
Winter (DJF)	-1.09E-04	-1.75E-04	-3.52E-05	-6.36E-05	2.30E-05	2.94E-05	12,539/3,843

Delta T Delta P Fronts

1997-2011	DeltaT avg (FS3+)	DeltaT avg (FS5+)	DeltaP avg (FS3+)	DeltaP avg (FS5+)	Delta TP correlation (FS3+)	Delta TP correlation (FS5+)	# stations with frontal passage (FS 3+/5+)
Total	-6.1K	-8.1K	+2.5mb	+3.2mb	-0.28	-0.32	71,417/24,942
Spring (MAM)	-5.8K	-7.7K	+2.8mb	+3.6mb	-0.32	-0.44	22,460/7,732
Summer (JJA)	-6.1K	-7.7K	+2.0mb	+2.5mb	-0.15	-0.06	22,958/9,603
Fall (SON)	-6.2K	-8.4K	+2.4mb	+3.1mb	-0.23	-0.17	13,176/4,225
Winter (DJF)	-6.6K	-10.2K	+2.9mb	+4.4mb	-0.41	-0.38	12,823/3,382

Front delta h/cp and qv

1997-2011	Delta qv (g/kg) avg (FS3+)	Delta qv (g/kg) avg (FS5+)	Delta h/cp avg (FS3+)	Delta h/cp avg (FS5+)	Delta qv h/cp correlation (FS3+)	Delta qv h/cp correlation (FS5+)
Total	-1.1	-2.1	-8.5	-13.4	0.90	0.93
Spring (MAM)	-1.5	-2.9	-9.1	-15.0	0.92	0.92
Summer (JJA)	-0.6	-1.0	-7.1	-10.4	0.89	0.94
Fall (SON)	-1.5	-2.8	-9.2	-15.0	0.92	0.95
Winter (DJF)	-1.2	-2.7	-9.5	-16.8	0.89	0.91

Front delta h/cp and qv

1997-2011	Delta qv P correlations (FS3+ / 5+)	Delta qv T correlations (FS3+ /5+)	Delta h/cp P correlations (FS3+ / 5+)	Delta h/cp T correlations (FS3+ / 5+)
Total	-0.20/-0.17	0.28/0.22	-0.24/-0.27	0.54/0.51
Spring (MAM)	-0.20/-0.15	0.36/0.31	-0.25/-0.33	0.59/0.59
Summer (JJA)	-0.13/-0.14	-0.01/-0.11	-0.18/-0.17	0.32/0.18
Fall (SON)	-0.32/-0.22	0.42/0.41	-0.33/-0.26	0.59/0.60
Winter (DJF)	-0.14/+0.17	0.54/0.47	-0.24/-0.02	0.76/0.73

Pool divergences

1997-2011	Beginning Divergence (FS3+)	Beginning Divergence (FS5+)	Middle Divergence (FS3+)	Middle Divergence (FS5+)	End Divergence (FS3+)	End Divergence (FS5+)	# triangles with frontal passage (FS 3+/5+)
Total	-1.29E-04	-1.78E-04	3.68E-05	3.02E-05	1.38E-04	1.58E-04	42,877/17,402
Spring (MAM)	-1.35E-04	-1.86E-04	3.47E-05	2.77E-05	1.26E-04	1.36E-04	13,820/5,397
Summer (JJA)	-1.29E-04	-1.70E-04	4.69E-05	4.63E-05	1.62E-04	1.89E-04	18,083/7,855
Fall (SON)	-1.35E-04	-1.98E-04	2.11E-05	1.90E-06	1.27E-04	1.45E-04	6,645/2,620
Winter (DJF)	-9.82E-05	-1.62E-04	2.51E-05	4.22E-06	9.58E-05	9.66E-05	4,329/1,530

Delta T Delta P Pools

1997-2011	DeltaT avg (FS3+)	DeltaT avg (FS5+)	DeltaP avg (FS3+)	DeltaP avg (FS5+)	Delta TP correlation (FS3+)	Delta TP correlation (FS5+)	# stations with frontal passage (FS 3+/5+)
Total	-6.2K	-8.0K	+2.6mb	+3.1K	-0.27	-0.32	53,099/21,312
Spring (MAM)	-5.8K	-7.5K	+2.9mb	+3.5K	-0.32	-0.46	16,887/6,565
Summer (JJA)	-6.2K	-7.7K	+2.0mb	+2.5K	-0.13	-0.04	20,366/9,074
Fall (SON)	-6.3K	-8.3K	+2.6mb	+3.1K	-0.22	-0.18	8,974/3,370
Winter (DJF)	-7.1K	-10.3K	+3.5mb	+4.5K	-0.44	-0.43	6,810/2,303

Pool delta h/cp and qv

1997-2011	Delta qv (g/kg) avg (FS3+)	Delta qv (g/kg) avg (FS5+)	Delta h/cp avg (FS3+)	Delta h/cp avg (FS5+)	Delta qv h/cp correlation (FS3+)	Delta qv h/cp correlation (FS5+)
Total	-1.3	-2.0	-9.36E+03	-1.31E+04	0.91	0.93
Spring (MAM)	-1.7	-2.8	-1.00E+04	-1.48E+04	0.93	0.92
Summer (JJA)	-0.8	-1.0	-8.09E+03	-1.05E+04	0.91	0.94
Fall (SON)	-1.6	-2.5	-9.99E+03	-1.44E+04	0.93	0.95
Winter (DJF)	-1.5	-2.8	-1.07E+04	-1.68E+04	0.90	0.91

Pool delta h/cp and qv

1997-2011	Delta qv P correlations (FS3+ / 5+)	Delta qv T correlations (FS3+ /5+)	Delta h/cp P correlations (FS3+ / 5+)	Delta h/cp T correlations (FS3+ / 5+)
Total	-0.20/-0.19	0.25/0.19	-0.27/-0.30	0.54/0.48
Spring (MAM)	-0.19/-0.18	0.38/0.31	-0.28/-0.35	0.63/0.60
Summer (JJA)	-0.12/-0.13	-0.02/-0.12	-0.17/-0.16	0.32/0.18
Fall (SON)	-0.29/-0.25	0.40/0.41	-0.33/-0.28	0.61/0.60
Winter (DJF)	-0.07/0.15	0.55/0.46	-0.24/-0.07	0.78/0.73