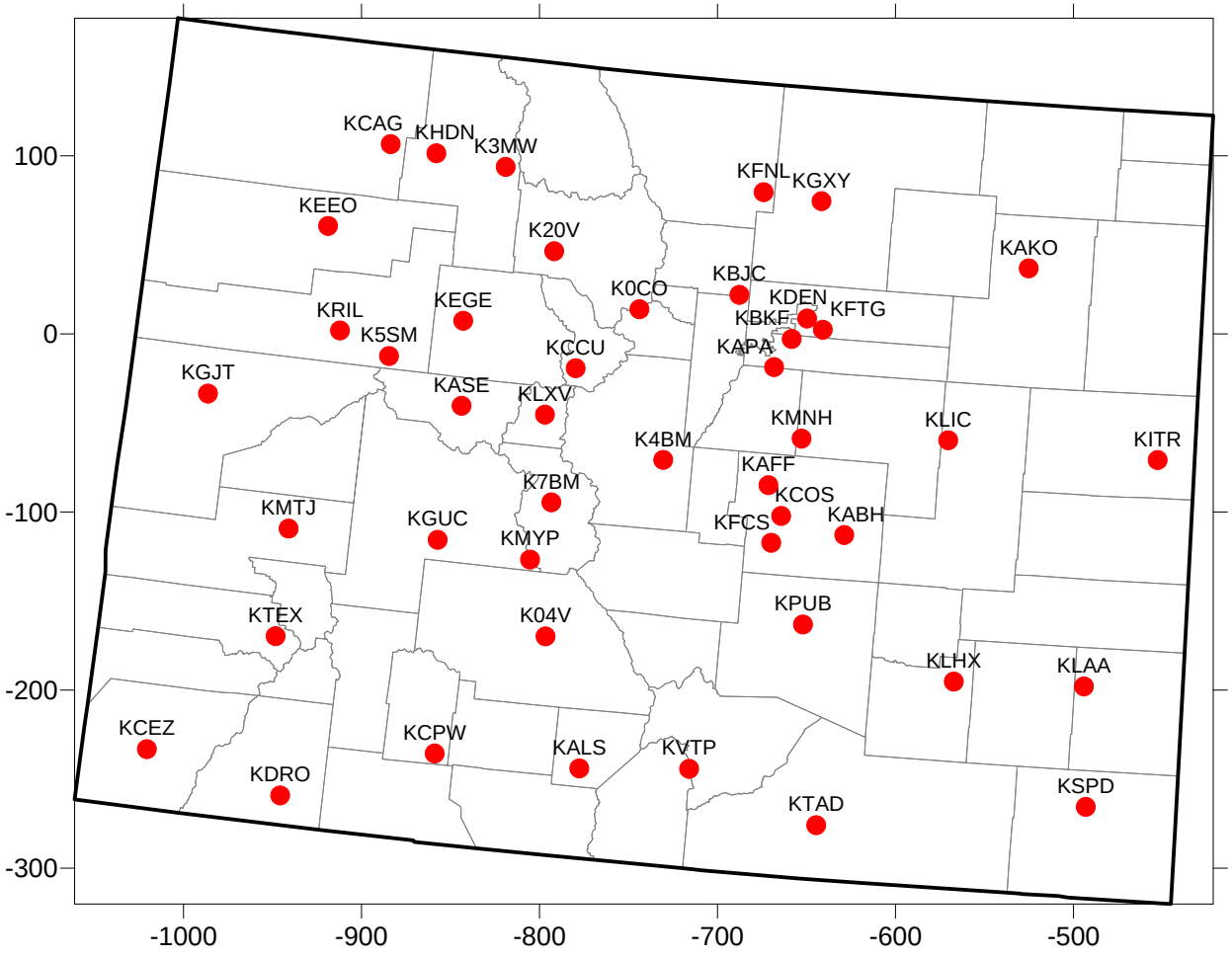


Colorado Met Stations

Table 1: Temperature Bias (K) for 2008 WRF by Month and by Station for Colorado in the 4km Domain.

Region	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
CO-K0CO	2.08	1.47	1.69	1.37	1.92	2.39	1.82	2.59	2.62	2.99	2.04	2.26	2.10
CO-K20V	-1.58	-1.82	-1.75	-1.75	-0.78	0.00	-0.83	0.89	0.85	0.99	1.02	-0.28	-0.42
CO-K3MW	-0.72	-0.68	-0.46	0.89	2.41	2.08	1.34	1.85	1.21	0.60	0.30	-0.20	0.72
CO-KABH	0.55	1.92	1.47	1.20	1.26	0.81	0.19	1.03	2.30	1.59	1.53	1.83	1.31
CO-KAFF	0.34	0.78	-0.22	0.03	0.63	-0.08	-0.61	0.44	0.92	1.26	0.71	0.88	0.42
CO-KAKO	1.18	0.55	0.52	0.78	0.81	0.11	0.24	1.12	1.15	0.95	1.00	1.23	0.80
CO-KALS	3.55	-1.86	-1.38	0.47	0.47	0.45	0.17	0.59	1.55	2.04	3.28	1.75	0.92
CO-KAPA	0.04	-0.25	0.23	0.16	0.52	-0.07	-0.15	0.60	1.02	0.39	-0.33	-0.44	0.14
CO-KASE	-0.29	-1.78	-2.97	-2.01	-0.86	-0.10	-0.07	0.63	0.45	0.64	0.68	-0.14	-0.49
CO-KBJC	-2.12	-2.31	-0.89	-0.90	-0.31	-1.06	-1.15	-0.56	-0.24	-1.09	-0.96	-0.98	-1.05
CO-KBKF	0.06	0.09	0.42	0.54	0.63	-0.07	0.26	1.05	1.29	0.68	0.36	0.77	0.51
CO-KCAG	2.06	1.01	2.45	0.85	0.92	0.79	0.48	1.07	1.62	1.80	1.47	1.20	1.31
CO-KCCU	-1.01	-1.03	-1.20	-0.56	0.73	1.53	0.23	1.07	0.76	1.11	0.24	0.02	0.16
CO-KCEZ	3.18	-1.18	0.63	-0.24	0.08	-0.22	0.33	0.59	0.81	0.42	1.33	1.66	0.62
CO-KCOS	0.53	1.08	0.39	0.36	0.50	-0.18	-0.95	0.20	0.66	0.84	0.63	1.02	0.42
CO-KCPW	-1.70	-2.04	-1.94	-0.82	1.57	1.36	1.49	1.34	1.33	1.91	1.85	1.24	0.47
CO-KDEN	-0.39	0.19	0.24	0.19	0.22	-0.51	-0.51	0.72	0.95	0.26	-0.01	0.90	0.19
CO-KDRO	2.62	-3.29	0.17	-0.26	0.13	0.12	0.19	0.48	0.70	1.00	1.60	1.09	0.38
CO-KEEO	0.31	-0.60	-0.93	0.07	0.37	0.58	0.57	0.41	1.08	1.31	1.54	0.10	0.40
CO-KEGE	0.12	-1.26	-2.61	-0.81	0.37	0.38	0.03	1.02	1.06	1.32	2.47	1.82	0.33
CO-KFCS	0.83	0.99	0.64	0.69	0.96	0.45	-0.24	0.74	1.15	1.05	0.54	1.75	0.80
CO-KFNL	-0.66	-0.21	0.35	0.16	0.33	-0.41	-0.79	-0.22	0.14	-0.02	-0.28	0.33	-0.11
CO-KFTG	-1.02	-0.62	-0.40	-0.70	-0.07	-0.93	-0.04	0.40	0.57	0.26	-0.23	0.99	-0.15
CO-KGJT	2.93	-0.36	0.48	0.19	0.46	-0.01	-0.33	0.09	0.63	0.90	1.57	2.35	0.74
CO-KGUC	0.68	NA	NA	-0.49	-0.44	-0.63	-0.47	-0.36	-0.12	-0.37	-0.76	-0.57	-0.35
CO-KGXY	0.99	1.00	1.23	1.02	0.84	0.37	0.72	1.38	1.22	1.42	1.57	1.74	1.13
CO-KHDN	1.40	1.18	2.29	1.11	0.73	0.73	0.57	0.89	0.81	0.54	0.78	0.75	0.98
CO-KITR	0.09	1.29	1.15	1.35	1.12	0.67	0.84	1.32	1.50	1.58	1.38	1.98	1.19
CO-KLAA	1.02	2.83	2.73	1.99	1.73	1.46	0.57	1.70	2.32	2.80	2.85	3.87	2.16
CO-KLHX	-0.94	2.11	1.97	1.64	1.27	1.15	0.20	1.18	1.67	1.71	1.54	2.31	1.32
CO-KLIC	0.26	1.21	0.75	1.01	1.08	0.29	0.04	1.18	1.41	1.45	1.08	1.53	0.94

Region	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
CO-KLXV	-0.75	-0.65	-1.70	-1.27	-0.58	0.43	0.67	1.22	1.24	1.33	1.16	-0.27	0.07
CO-KMNH	1.58	1.12	1.08	1.05	1.73	1.30	0.91	1.63	2.48	0.92	1.94	0.66	1.37
CO-KMTJ	-1.59	-3.27	-0.48	-0.14	-0.12	-0.51	-0.91	-0.26	0.32	0.56	0.70	0.70	-0.42
CO-KMYP	-0.91	-0.89	-0.87	0.31	0.99	0.11	-0.12	0.58	0.38	0.79	1.02	0.69	0.17
CO-KPUB	-0.27	1.83	1.16	0.96	0.72	0.69	0.41	0.98	1.47	1.82	1.30	2.40	1.12
CO-KRIL	2.05	0.81	0.20	0.21	0.06	-0.74	-0.59	-0.53	0.47	0.64	1.69	1.25	0.46
CO-KSPD	0.95	1.76	1.97	1.73	1.25	1.09	0.60	1.19	1.86	1.75	1.84	2.09	1.51
CO-KTAD	-0.51	0.83	0.57	0.67	0.72	0.20	-0.12	0.55	0.97	1.24	1.28	1.45	0.65
CO-KTEX	-4.45	-4.94	-5.58	-5.79	-2.73	-2.34	-2.01	-1.51	-1.13	-1.31	-2.73	-3.79	-3.19
CO-KVTP	3.09	1.65	1.47	2.50	3.03	2.13	2.29	2.65	2.74	1.55	0.80	0.21	2.01

Table 2: Temperature Error (K) for 2008 WRF by Month and by Station for Colorado in the 4km Domain.

Region	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
CO-K0CO	2.87	1.34	2.99	1.62	2.33	2.52	2.60	2.97	2.16	2.98	NA	1.39	2.34
CO-K20V	3.45	4.13	1.01	4.06	1.20	1.48	2.53	1.86	2.75	3.54	1.29	1.92	2.44
CO-K3MW	1.77	2.89	1.29	2.28	2.15	2.01	1.09	2.24	1.14	2.07	0.93	2.71	1.88
CO-KABH	2.21	2.59	3.39	2.10	1.17	1.41	2.04	2.54	NA	2.54	1.92	4.44	2.40
CO-KAFF	1.61	2.77	2.81	2.33	0.79	1.77	1.25	1.68	2.83	1.33	1.06	2.84	1.92
CO-KAKO	1.50	0.87	2.46	1.93	1.13	1.27	0.93	1.78	2.16	2.26	0.83	3.55	1.72
CO-KALS	1.55	8.43	2.06	2.64	2.37	1.33	3.21	2.19	3.14	1.53	3.83	3.14	2.95
CO-KAPA	2.01	1.71	3.35	1.51	1.32	0.79	1.77	2.05	0.83	2.24	1.84	2.93	1.86
CO-KASE	3.66	3.12	1.48	2.88	1.61	2.43	2.38	1.37	2.14	2.47	1.52	2.84	2.33
CO-KBJC	0.85	2.31	3.06	2.70	1.22	1.36	1.70	1.23	0.70	2.09	3.44	2.17	1.90
CO-KBKF	2.27	1.14	3.26	2.10	1.13	1.25	1.47	1.69	0.97	2.01	1.87	3.82	1.92
CO-KCAG	3.93	3.00	1.78	1.96	1.57	2.03	1.55	2.77	3.23	3.07	1.18	4.81	2.57
CO-KCCU	2.29	2.55	0.51	0.58	2.48	1.66	1.67	1.70	1.06	1.30	1.15	0.70	1.47
CO-KCEZ	2.43	3.10	1.82	1.92	2.11	1.88	2.36	1.44	2.53	1.06	1.07	1.39	1.93
CO-KCOS	1.34	1.93	2.81	2.20	0.93	1.02	1.70	1.35	1.68	2.44	1.55	2.80	1.81
CO-KCPW	1.51	3.93	1.47	1.90	1.81	2.47	1.09	1.74	1.91	2.51	2.27	3.20	2.15
CO-KDEN	2.12	1.36	2.94	2.08	1.72	1.50	0.93	2.33	0.76	2.58	1.81	3.45	1.97
CO-KDRO	2.13	5.15	1.52	2.41	2.26	1.50	1.72	0.85	1.60	2.21	1.08	4.19	2.22
CO-KEEO	3.29	2.89	0.98	2.38	1.57	2.76	1.90	1.95	2.23	2.97	1.22	3.08	2.27
CO-KEGE	3.37	3.32	1.09	2.05	2.03	2.30	1.50	1.31	2.36	4.12	1.32	8.45	2.77
CO-KFCS	1.25	1.84	4.00	1.60	1.04	1.10	1.75	1.62	1.93	1.71	1.41	2.97	1.85
CO-KFNL	0.96	0.97	2.91	1.81	1.48	1.21	2.44	1.21	0.92	1.45	2.17	1.56	1.59
CO-KFTG	1.14	1.76	3.58	2.29	1.04	1.52	0.69	0.85	0.67	2.09	2.26	1.92	1.65
CO-KGJT	1.59	1.39	1.24	0.96	1.35	1.16	1.51	1.47	1.75	2.55	1.94	6.73	1.97
CO-KGUC	NA	NA	NA	2.19	0.88	2.80	1.30	1.92	1.61	1.07	NA	NA	1.68
CO-KGXY	2.37	1.97	2.97	3.01	1.19	0.84	NA	3.85	1.69	2.75	1.17	2.88	2.24
CO-KHDN	2.33	2.90	2.01	1.78	1.56	1.22	1.96	1.88	1.11	1.36	1.42	3.58	1.93
CO-KITR	1.69	1.60	2.34	2.66	0.93	1.82	2.52	1.43	2.36	1.89	0.84	3.36	1.95
CO-KLAA	2.73	3.32	3.47	2.57	2.59	1.96	2.21	1.20	3.61	3.34	1.90	6.92	2.99
CO-KLHX	1.65	2.51	3.54	1.66	2.12	2.00	2.43	1.24	2.63	2.08	1.03	6.57	2.46
CO-KLIC	1.93	2.13	2.02	1.79	0.80	1.69	1.82	2.73	2.19	2.79	0.88	4.43	2.10
CO-KLXV	0.93	2.57	1.39	2.77	2.00	2.15	1.86	1.31	1.98	2.61	1.18	1.66	1.87

Region	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
CO-KMNH	1.77	1.37	4.87	1.73	1.11	1.82	1.73	2.22	NA	1.21	NA	3.22	2.11
CO-KMTJ	3.81	5.48	1.31	2.26	1.73	2.25	2.10	2.84	0.97	1.72	1.65	3.01	2.43
CO-KMYP	2.50	3.11	1.24	0.66	0.47	1.60	1.09	1.43	1.11	1.75	0.96	2.79	1.56
CO-KPUB	1.70	2.06	2.53	1.79	1.11	1.05	2.72	2.52	2.67	3.16	2.27	5.10	2.39
CO-KRIL	6.53	2.13	1.97	2.35	2.10	1.86	1.80	3.09	2.08	2.56	1.62	5.77	2.82
CO-KSPD	2.04	3.98	4.19	3.16	1.68	1.73	2.04	1.29	2.70	2.84	0.92	5.06	2.64
CO-KTAD	1.38	2.12	2.85	2.78	1.30	1.17	1.99	0.94	2.37	2.28	1.92	4.19	2.11
CO-KTEX	5.14	5.62	2.90	7.80	3.43	2.66	2.17	1.23	1.86	1.11	2.91	4.58	3.45
CO-KVTP	2.66	2.23	2.73	2.76	2.33	3.69	2.31	2.29	2.83	1.45	0.91	1.92	2.34

Table 3: Humidity Bias (g/kg) for 2008 WRF by Month and by Station for Colorado in the 4km Domain.

Region	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
CO-K0CO	0.24	0.24	0.42	0.69	0.63	0.71	1.50	0.21	-0.52	-0.33	0.34	0.08	0.35
CO-K20V	0.38	0.50	0.57	0.72	0.60	0.48	0.89	0.22	0.05	0.07	0.37	0.33	0.43
CO-K3MW	-0.17	-0.23	-0.06	-0.80	-0.34	0.21	0.88	NA	NA	NA	-0.32	-0.35	-0.13
CO-KABH	0.55	0.29	0.38	0.24	0.14	0.13	0.99	0.08	0.24	-0.04	-0.04	0.13	0.26
CO-KAFF	0.25	0.04	0.30	0.13	-0.28	-0.06	0.72	-0.51	-0.27	-0.34	-0.03	0.19	0.01
CO-KAKO	0.36	0.29	0.37	0.12	0.02	0.00	0.53	-0.41	-0.25	-0.22	-0.11	0.27	0.08
CO-KALS	0.67	0.18	0.27	0.33	0.26	-0.31	0.49	-0.21	0.29	-0.10	0.04	0.31	0.19
CO-KAPA	0.52	0.41	0.31	0.16	-0.12	-0.05	0.34	0.61	-0.24	-0.53	0.01	0.33	0.15
CO-KASE	0.01	0.04	0.17	0.50	0.45	0.27	0.69	-0.11	0.08	-0.23	0.01	-0.11	0.15
CO-KBJC	0.48	0.39	0.06	-0.05	-0.45	-0.12	0.17	-0.84	-1.17	-0.67	0.06	0.38	-0.15
CO-KBKF	0.40	0.28	0.20	0.11	-0.31	-0.14	-0.73	NA	NA	-0.71	-0.01	0.27	-0.06
CO-KCAG	0.56	0.56	0.60	0.28	-0.11	-0.33	-0.07	-0.79	-0.93	-0.60	-0.08	0.17	-0.06
CO-KCCU	0.21	0.26	0.44	0.83	1.21	1.21	2.11	1.34	1.02	0.44	0.70	0.29	0.84
CO-KCEZ	0.60	0.27	0.21	0.10	0.16	0.23	0.76	0.20	0.05	0.02	0.18	0.17	0.25
CO-KCOS	0.41	0.21	0.38	0.28	0.03	0.20	1.09	-0.32	-0.08	-0.19	0.01	0.21	0.19
CO-KCPW	0.54	0.57	0.88	1.17	1.28	NA	NA	NA	NA	0.93	1.20	0.89	0.93
CO-KDEN	0.37	0.20	0.21	0.10	-0.30	-0.08	-0.43	NA	NA	-0.69	-0.04	0.18	-0.05
CO-KDRO	0.60	0.18	0.46	0.24	0.22	0.15	0.58	0.02	0.07	-0.25	0.01	0.09	0.20
CO-KEEO	0.41	0.45	0.58	0.41	0.17	0.15	0.82	-0.05	-0.35	-0.22	-0.09	0.05	0.19
CO-KEGE	0.19	0.15	0.22	0.38	0.19	0.27	0.39	-0.47	-0.24	-0.14	0.19	0.18	0.11
CO-KFCS	0.32	0.17	0.19	0.02	-0.38	-0.30	0.94	-0.62	-0.31	-0.39	-0.17	0.20	-0.03
CO-KFNL	0.29	0.29	0.08	-0.06	-0.04	-0.02	-0.12	-0.71	-1.04	-0.62	-0.19	0.15	-0.17
CO-KFTG	0.59	0.20	0.24	0.16	-0.05	0.41	-1.62	NA	NA	-0.52	-0.08	0.15	-0.05
CO-KGJT	0.47	0.01	0.35	0.13	0.22	0.31	1.13	0.12	0.09	-0.01	0.01	0.00	0.24
CO-KGUC	0.17	0.61	0.43	0.35	0.28	0.24	0.63	0.10	0.09	-0.11	0.23	0.39	0.28
CO-KGXY	0.38	0.22	0.24	0.13	0.12	0.04	-0.38	-0.99	-0.87	-0.47	-0.03	0.36	-0.10
CO-KHDN	0.34	0.40	0.54	0.37	0.16	-0.09	0.37	-0.28	-0.62	-0.40	-0.08	0.09	0.07
CO-KITR	0.55	0.36	0.59	0.05	0.37	0.14	0.40	-0.12	0.10	0.00	0.29	0.31	0.25
CO-KLAA	0.61	0.47	0.55	0.06	0.05	-0.02	0.83	-0.57	0.16	0.21	0.34	0.50	0.27
CO-KLHX	0.40	0.24	0.26	0.08	0.01	-0.13	0.98	-0.58	0.02	-0.28	0.05	0.34	0.12
CO-KLIC	0.51	0.49	0.42	0.10	0.02	0.05	0.99	-0.51	-0.03	-0.31	0.01	0.29	0.17

Region	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
CO-KLXV	0.11	0.17	0.31	0.60	0.66	0.58	0.79	0.13	0.27	-0.06	0.25	0.05	0.32
CO-KMNH	0.35	0.37	0.26	0.20	0.09	0.25	1.24	0.22	-0.08	-0.52	0.10	0.28	0.23
CO-KMTJ	0.24	0.07	0.34	-0.03	-0.28	-0.50	-0.36	-1.08	-0.85	-0.74	-0.25	-0.10	-0.30
CO-KMYP	0.09	0.11	0.30	0.46	0.23	NA	NA	NA	NA	NA	NA	0.10	0.22
CO-KPUB	0.70	0.51	0.39	0.21	0.08	0.15	1.00	-0.13	0.38	0.06	0.13	0.41	0.32
CO-KRIL	0.39	0.38	0.28	0.21	0.12	0.41	0.41	-0.19	-0.49	-0.19	-0.24	-0.03	0.09
CO-KSPD	0.33	0.33	0.28	0.03	-0.24	-0.38	0.12	-0.98	-0.26	0.05	0.22	0.28	-0.02
CO-KTAD	0.35	0.12	0.10	-0.01	-0.08	0.00	0.79	-0.12	0.12	-0.11	-0.05	0.12	0.10
CO-KTEX	-0.42	-0.58	-0.05	0.30	-0.15	-0.42	-1.25	NA	NA	-0.69	-0.32	-0.44	-0.40
CO-KVTP	0.31	0.28	0.38	0.22	-0.07	-0.17	NA	NA	NA	0.74	0.49	0.42	0.29

Table 4: Humidity Error (g/kg) for 2008 WRF by Month and by Station for Colorado in the 4km Domain.

Region	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
CO-K0CO	0.28	0.32	0.46	0.71	0.91	0.85	1.61	0.92	0.71	0.43	0.52	0.31	0.67
CO-K20V	0.46	0.59	0.61	0.88	0.89	0.80	1.18	0.86	0.73	0.43	0.51	0.49	0.70
CO-K3MW	0.31	0.37	0.36	0.93	0.67	0.84	1.30	NA	NA	NA	0.39	0.47	0.63
CO-KABH	0.69	0.47	0.62	0.50	0.85	1.23	1.53	1.07	0.96	0.67	0.47	0.40	0.79
CO-KAFF	0.41	0.39	0.73	0.51	0.77	1.07	1.41	1.23	0.90	0.65	0.45	0.40	0.74
CO-KAKO	0.40	0.41	0.58	0.52	0.91	0.94	1.33	1.20	0.90	0.61	0.42	0.42	0.72
CO-KALS	0.73	0.67	0.60	0.53	0.80	0.85	1.22	0.97	0.94	0.73	0.46	0.64	0.76
CO-KAPA	0.58	0.53	0.58	0.56	0.74	0.97	1.33	0.61	1.05	0.67	0.39	0.54	0.71
CO-KASE	0.39	0.46	0.62	0.87	1.03	0.92	1.27	0.94	0.88	0.60	0.51	0.48	0.75
CO-KBJC	0.66	0.60	0.60	0.57	0.94	1.08	1.26	1.45	1.42	0.83	0.53	0.55	0.87
CO-KBKF	0.50	0.42	0.54	0.54	0.79	1.05	1.03	NA	NA	0.78	0.41	0.47	0.65
CO-KCAG	0.57	0.63	0.67	0.51	0.63	0.84	1.16	1.14	1.13	0.73	0.39	0.47	0.74
CO-KCCU	0.26	0.33	0.49	0.86	1.23	1.26	2.12	1.40	1.11	0.55	0.72	0.39	0.89
CO-KCEZ	0.64	0.50	0.44	0.37	0.56	0.77	1.35	1.05	0.89	0.61	0.47	0.52	0.68
CO-KCOS	0.54	0.45	0.66	0.54	0.79	1.13	1.59	1.14	0.95	0.62	0.45	0.39	0.77
CO-KCPW	0.56	0.63	0.93	1.18	1.29	NA	NA	NA	NA	0.93	1.20	0.91	0.95
CO-KDEN	0.49	0.39	0.52	0.52	0.89	1.11	1.26	NA	NA	0.81	0.40	0.45	0.68
CO-KDRO	0.64	0.49	0.64	0.41	0.63	0.74	1.21	1.23	0.86	0.76	0.51	0.55	0.72
CO-KEEO	0.46	0.53	0.67	0.55	0.65	0.88	1.37	0.98	0.89	0.54	0.36	0.45	0.69
CO-KEGE	0.40	0.52	0.70	0.73	0.70	0.72	1.12	0.97	0.86	0.51	0.50	0.50	0.69
CO-KFCS	0.50	0.47	0.62	0.49	0.83	1.23	1.52	1.24	0.87	0.70	0.47	0.42	0.78
CO-KFNL	0.39	0.41	0.51	0.46	0.82	1.00	1.26	1.36	1.27	0.83	0.42	0.36	0.76
CO-KFTG	0.68	0.45	0.57	0.56	0.98	1.12	2.24	NA	NA	0.61	0.46	0.49	0.82
CO-KGJT	0.51	0.45	0.49	0.42	0.64	0.76	1.30	0.91	0.99	0.57	0.45	0.58	0.67
CO-KGUC	0.29	0.72	0.66	0.58	0.75	0.74	1.12	0.81	0.90	0.53	0.50	0.61	0.68
CO-KGXY	0.44	0.43	0.55	0.51	0.84	1.05	1.10	1.46	1.25	0.79	0.49	0.47	0.78
CO-KHDN	0.42	0.50	0.59	0.49	0.59	0.70	1.07	0.91	0.91	0.59	0.36	0.41	0.63
CO-KITR	0.58	0.44	0.77	0.62	1.06	1.09	1.34	1.05	0.88	0.68	0.55	0.44	0.79
CO-KLAA	0.67	0.57	0.76	0.61	1.13	1.24	1.55	1.31	1.04	0.84	0.62	0.61	0.91
CO-KLHX	0.57	0.46	0.61	0.57	0.96	1.31	1.59	1.40	0.98	0.90	0.52	0.48	0.86
CO-KLIC	0.55	0.58	0.62	0.46	0.88	1.10	1.48	1.16	1.02	0.74	0.46	0.47	0.79
CO-KLXV	0.29	0.33	0.46	0.74	1.01	0.92	1.15	0.84	0.77	0.45	0.46	0.34	0.65

Region	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
CO-KMNH	0.44	0.48	0.58	0.50	0.71	1.03	1.53	1.14	1.08	0.59	0.25	0.45	0.73
CO-KMTJ	0.43	0.60	0.55	0.42	0.64	0.81	1.10	1.25	1.14	0.88	0.47	0.55	0.74
CO-KMYP	0.22	0.32	0.45	0.52	0.48	NA	NA	NA	NA	NA	NA	0.31	0.38
CO-KPUB	0.78	0.64	0.69	0.56	0.90	1.37	1.63	1.11	0.97	0.73	0.56	0.51	0.87
CO-KRIL	0.50	0.57	0.46	0.49	0.85	0.99	1.28	0.94	1.08	0.62	0.47	0.53	0.73
CO-KSPD	0.47	0.49	0.61	0.58	1.25	1.35	1.42	1.35	1.01	0.86	0.55	0.43	0.86
CO-KTAD	0.57	0.42	0.73	0.54	0.86	1.24	1.53	1.06	0.82	0.80	0.47	0.40	0.79
CO-KTEX	0.60	0.83	0.81	1.09	0.98	0.85	1.41	NA	NA	0.84	0.74	0.70	0.89
CO-KVTP	0.36	0.42	0.56	0.44	0.79	0.81	NA	NA	NA	0.74	0.64	0.52	0.59

Table 5: Wind Direction Bias (deg.) for 2008 WRF by Month and by Station for Colorado in the 4km Domain.

Region	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
CO-K0CO	-20.20	-6.78	-29.47	-5.53	48.02	-5.55	2.32	-30.30	-12.02	-22.13	-9.88	-6.17	-8.14
CO-K20V	29.95	17.63	9.88	-5.83	10.91	21.80	24.75	12.04	26.75	-40.04	-4.01	55.93	13.31
CO-K3MW	-18.21	8.01	35.79	-3.41	35.80	48.37	48.61	-15.31	93.20	-6.28	43.39	-27.31	20.22
CO-KABH	-20.76	-35.52	-29.95	30.77	-22.62	0.91	-4.86	-11.38	NA	-4.41	-16.85	-44.61	-14.48
CO-KAFF	-14.20	-17.63	-23.05	10.59	-32.61	-6.94	-9.93	42.79	2.65	-40.53	-7.56	-10.08	-8.88
CO-KAKO	-2.65	-14.59	2.71	-8.45	-17.98	-8.47	-10.98	4.53	3.83	9.40	0.07	10.16	-2.70
CO-KALS	-26.24	-56.61	2.30	-16.42	3.63	-23.62	-19.03	2.83	37.16	23.80	9.28	1.31	-5.13
CO-KAPA	17.68	-1.40	-39.40	-2.50	-29.09	20.92	-5.08	17.15	-13.94	0.32	9.80	-2.25	-2.32
CO-KASE	-31.16	-16.43	-22.68	-38.88	-26.90	-23.42	-39.78	-46.50	-43.04	-35.31	-10.87	-25.82	-30.07
CO-KBJC	49.10	-11.88	7.60	46.56	-34.49	44.99	11.39	-4.14	-8.24	-16.59	36.58	-14.16	8.89
CO-KBKF	3.43	0.02	-0.74	9.16	-15.02	19.70	9.49	-4.48	17.71	-2.90	-17.13	15.52	2.90
CO-KCAG	9.89	-41.04	6.61	2.24	6.72	-1.80	-8.12	12.39	-16.98	-26.06	23.82	6.30	-2.17
CO-KCCU	-9.82	-12.84	-11.21	2.56	-1.86	-16.47	-34.38	-4.54	-21.26	-27.42	30.39	-1.11	-9.00
CO-KCEZ	19.39	-1.95	-1.06	1.48	-1.07	-10.03	26.27	-19.33	6.05	16.00	-12.14	-15.74	0.66
CO-KCOS	-10.66	-23.69	25.46	-12.83	-15.77	-7.96	24.76	23.16	-16.59	-15.87	-25.31	-12.06	-5.61
CO-KCPW	-3.46	46.57	6.28	7.76	42.34	62.66	-7.65	10.94	62.29	84.82	-24.95	72.47	30.01
CO-KDEN	-7.92	-29.71	-15.23	3.79	18.01	2.25	-8.54	-13.97	-8.60	-18.18	-12.38	-0.09	-7.55
CO-KDRO	20.77	20.60	2.87	38.37	29.33	12.34	17.30	17.92	17.23	12.73	11.86	41.07	20.20
CO-KEEO	12.75	-30.70	7.51	0.73	-5.76	-0.34	-8.15	-22.23	9.64	-7.81	-31.45	-20.01	-7.99
CO-KEGE	3.31	-22.82	29.33	-44.55	-19.05	-38.26	13.01	-13.66	98.69	-46.64	27.17	83.23	5.81
CO-KFCS	-18.68	-9.82	20.21	-10.02	-33.58	10.22	20.96	10.73	-23.03	-12.05	12.48	5.01	-2.30
CO-KFNL	-28.30	-29.75	-31.03	56.73	-0.68	2.51	-21.05	-28.17	-14.40	10.02	-17.12	4.29	-8.08
CO-KFTG	0.51	-30.33	-24.02	9.50	0.68	11.94	5.90	13.15	18.20	18.03	2.74	9.65	3.00
CO-KGJT	-0.86	-15.39	-35.37	7.57	-2.34	-19.72	11.33	14.78	-12.27	-10.53	5.02	-18.03	-6.32
CO-KGUC	50.42	26.97	22.92	13.50	4.72	-5.72	44.35	39.92	-8.91	17.83	9.91	NA	19.63
CO-KGXY	-5.09	-37.05	-8.85	-15.67	-9.57	17.28	NA	27.70	17.98	1.35	-0.56	-21.41	-3.08
CO-KHDN	16.96	-0.52	0.47	12.10	8.08	-33.10	-12.11	-33.72	-9.07	-18.83	2.33	7.24	-5.01
CO-KITR	-4.57	9.26	0.67	5.89	1.66	-4.86	-9.68	1.81	0.07	-5.08	3.60	-7.67	-0.74
CO-KLAA	4.22	9.30	-16.05	0.20	7.78	4.09	34.85	-23.83	7.94	6.08	-2.49	-58.54	-2.20
CO-KLHX	10.87	21.91	5.62	11.31	-13.98	0.52	-10.95	-1.35	26.46	0.10	23.06	-8.86	5.39
CO-KLIC	5.23	-21.50	-10.07	2.97	-2.86	13.17	-3.98	15.83	-5.05	-12.44	4.03	10.99	-0.31
CO-KLXV	-4.77	-7.45	-1.62	-38.28	-27.63	-31.46	14.17	21.60	-19.70	-12.07	-27.43	-13.85	-12.37

Region	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
CO-KMNH	11.14	19.74	-59.65	24.78	15.59	11.64	-15.58	-8.52	NA	7.27	NA	13.26	1.97
CO-KMTJ	2.18	16.54	0.81	-1.40	-11.28	-0.35	7.75	-10.78	-5.42	-2.38	2.03	-13.81	-1.34
CO-KMYP	NA	NA	NA	NA	NA	NA	16.31	-10.16	20.24	61.04	5.31	NA	18.55
CO-KPUB	-29.73	6.54	31.42	-5.17	3.08	-3.39	-9.36	28.05	20.32	31.89	-13.56	10.50	5.88
CO-KRIL	-62.21	-67.14	-22.29	33.20	-2.90	-17.92	-33.10	22.61	-46.92	-77.23	-13.95	-71.21	-29.92
CO-KSPD	12.01	-5.59	-12.56	27.95	11.50	8.04	21.82	10.42	-7.07	-35.04	-13.95	-7.92	0.80
CO-KTAD	9.66	-52.65	10.59	-5.20	-8.51	1.00	-8.14	-9.23	-19.58	-14.87	4.56	33.47	-4.91
CO-KTEX	16.27	-21.40	-10.55	-23.25	-20.50	-32.14	-59.62	11.08	-24.48	-41.57	33.85	-57.77	-19.17
CO-KVTP	-25.31	-5.99	8.82	14.60	23.07	0.64	-24.79	9.72	8.47	18.27	4.64	6.09	3.19

Table 6: Wind Direction Error (deg.) for 2008 WRF by Month and by Station for Colorado in the 4km Domain.

Region	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
CO-K0CO	20.20	9.10	35.10	18.05	56.73	33.87	32.30	52.35	50.05	26.41	9.88	17.65	30.14
CO-K20V	91.01	84.69	40.88	81.69	29.80	77.22	69.97	66.45	33.86	43.01	20.43	86.10	60.43
CO-K3MW	59.24	98.95	35.79	24.23	54.51	72.81	48.61	44.46	93.20	73.30	43.39	108.13	63.05
CO-KABH	25.37	40.22	73.54	46.40	25.03	20.04	27.46	12.40	NA	24.79	25.21	45.67	33.28
CO-KAFF	33.48	49.32	51.13	36.42	33.90	68.64	66.64	55.13	40.80	66.23	17.58	32.26	45.96
CO-KAKO	15.18	27.76	21.03	38.80	43.49	14.86	14.43	8.75	13.56	15.60	6.70	19.25	19.95
CO-KALS	38.46	79.50	18.47	24.60	37.45	81.21	63.16	18.01	43.08	65.03	35.50	104.33	50.73
CO-KAPA	39.36	69.22	72.54	22.55	41.89	33.84	44.99	21.98	39.37	20.83	55.41	30.23	41.02
CO-KASE	55.49	54.77	53.67	59.39	45.51	46.54	45.76	66.14	44.73	41.06	21.43	35.39	47.49
CO-KBJC	75.16	15.06	78.54	94.59	48.12	49.54	52.56	32.36	32.67	25.99	72.53	40.94	51.51
CO-KBKF	30.89	50.87	43.57	26.16	53.75	30.48	22.33	14.73	30.97	14.72	51.27	54.68	35.37
CO-KCAG	60.24	97.23	39.04	34.63	37.85	59.08	29.71	59.62	39.45	43.43	28.50	156.30	57.09
CO-KCCU	23.75	36.24	23.54	20.37	18.14	49.56	45.85	34.19	48.39	36.69	30.39	13.12	31.69
CO-KCEZ	53.66	25.10	28.63	19.34	15.47	72.79	37.36	63.43	33.38	33.04	26.42	42.80	37.62
CO-KCOS	17.27	58.74	59.61	50.54	22.15	28.92	41.01	39.64	19.60	29.51	39.30	29.49	36.32
CO-KCPW	34.52	83.04	11.54	11.01	45.28	106.04	71.92	35.70	98.00	85.58	33.62	72.47	57.39
CO-KDEN	17.01	56.62	33.18	34.05	46.50	18.86	30.72	28.40	29.55	20.67	39.70	35.44	32.56
CO-KDRO	76.50	28.89	17.19	43.07	38.41	50.47	49.55	45.41	56.62	24.21	37.65	41.07	42.42
CO-KEEO	42.43	32.58	55.98	49.76	42.16	35.19	59.90	54.47	31.93	18.88	54.75	37.84	42.99
CO-KEGE	118.14	50.98	49.61	54.69	57.81	67.77	34.54	63.93	98.69	78.81	112.57	140.89	77.37
CO-KFCS	47.23	57.65	58.84	35.68	35.22	47.92	73.08	27.41	42.50	26.50	34.06	33.37	43.29
CO-KFNL	29.33	49.12	44.34	82.89	56.38	41.12	37.07	43.86	23.64	42.51	21.88	38.63	42.56
CO-KFTG	8.00	41.89	51.69	58.69	37.15	24.18	23.82	17.25	31.31	18.03	5.74	16.60	27.86
CO-KGJT	36.66	37.81	71.41	22.86	30.66	49.41	46.35	42.50	22.60	38.66	77.52	22.45	41.57
CO-KGUC	79.85	104.92	28.43	34.38	43.41	67.41	57.84	77.99	85.29	92.86	17.22	NA	62.69
CO-KGXY	28.72	73.01	35.70	90.06	37.05	48.70	NA	59.94	21.39	34.94	8.65	37.90	43.28
CO-KHDN	30.83	22.43	47.90	29.18	37.87	54.00	35.38	40.21	24.48	19.81	26.85	37.55	33.87
CO-KITR	15.59	15.33	38.14	19.77	26.07	13.00	20.83	4.94	25.24	7.14	6.34	13.45	17.15
CO-KLAA	28.17	36.09	27.58	31.42	19.17	31.13	69.30	23.83	47.02	41.42	26.91	64.84	37.24
CO-KLHX	24.95	58.52	40.70	25.50	27.03	32.79	51.05	6.12	33.09	32.91	28.22	31.46	32.70
CO-KLIC	8.67	30.19	28.27	31.44	18.92	24.92	32.83	17.36	31.43	24.31	13.72	14.53	23.05
CO-KLXV	14.02	28.70	40.87	48.04	40.33	49.83	34.03	74.56	35.46	62.57	27.65	32.56	40.72

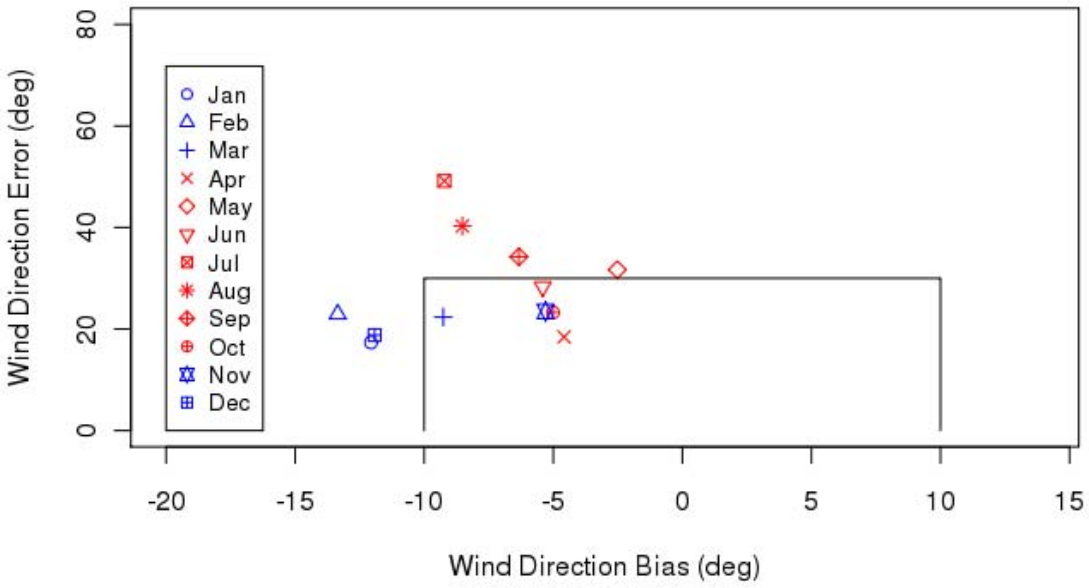
Region	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
CO-KMNH	32.35	34.28	65.90	30.96	39.57	30.93	17.90	16.91	NA	18.39	NA	22.16	30.94
CO-KMTJ	45.26	50.05	27.77	30.58	17.05	37.62	29.10	57.94	26.81	14.92	31.71	25.86	32.89
CO-KMYP	NA	NA	NA	NA	NA	NA	41.95	32.92	51.83	63.44	6.28	NA	39.28
CO-KPUB	40.71	49.77	81.23	76.13	48.73	48.60	60.26	59.76	53.85	35.31	76.17	30.25	55.06
CO-KRIL	68.73	94.36	55.85	59.27	15.55	93.97	51.34	58.41	84.97	80.62	55.99	94.29	67.78
CO-KSPD	21.81	39.31	53.55	31.22	28.34	18.74	27.70	10.90	15.70	38.72	14.30	44.95	28.77
CO-KTAD	38.50	62.84	35.73	17.39	26.03	30.45	36.40	15.74	30.65	28.93	51.20	80.89	37.90
CO-KTEX	63.38	78.98	29.27	49.28	45.21	55.56	61.74	56.88	53.46	50.92	36.93	57.77	53.28
CO-KVTP	34.68	18.31	12.83	14.90	23.07	46.02	34.64	15.64	13.96	31.49	36.35	18.80	25.06

Table 7: Wind Speed RMSE (m/s) for 2008 WRF by Month and by Station for Colorado in the 4km Domain.

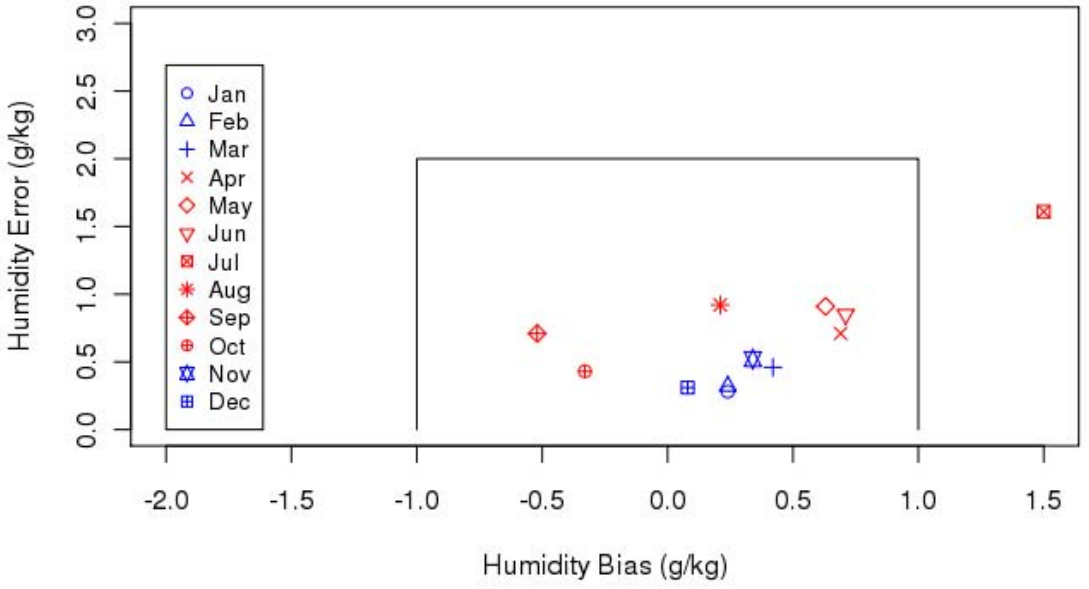
Region	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
CO-K0CO	4.22	3.76	3.33	2.64	4.21	3.63	3.77	1.40	4.33	3.30	7.33	7.71	4.14
CO-K20V	1.17	2.03	2.07	3.56	1.72	2.36	1.80	2.01	1.05	2.09	2.63	2.63	2.09
CO-K3MW	3.51	2.61	1.68	2.52	1.51	2.80	0.85	2.03	1.60	1.28	2.66	3.85	2.24
CO-KABH	1.68	1.89	2.49	2.24	2.52	1.68	2.88	2.00	NA	1.39	2.64	1.52	2.08
CO-KAFF	1.89	1.77	1.72	1.67	2.90	2.36	2.14	1.43	2.40	3.18	2.61	1.70	2.15
CO-KAKO	1.65	2.42	1.64	2.66	2.71	1.32	2.83	1.72	1.57	1.01	3.37	1.44	2.03
CO-KALS	2.03	2.29	2.77	3.28	3.01	2.84	2.77	2.19	1.04	2.21	4.06	2.47	2.58
CO-KAPA	2.00	2.23	2.16	2.12	2.19	1.18	2.36	2.34	1.40	1.91	3.15	1.87	2.08
CO-KASE	1.50	1.60	1.85	1.81	0.99	1.71	1.15	1.64	1.43	1.53	1.03	0.81	1.42
CO-KBJC	2.81	2.30	1.32	2.02	1.21	1.24	1.45	2.66	0.55	1.52	3.91	2.36	1.95
CO-KBKF	2.57	2.36	1.73	1.32	1.49	1.53	2.33	1.35	1.21	1.56	1.80	1.80	1.75
CO-KCAG	1.21	1.56	1.32	2.43	2.53	1.86	1.76	1.94	0.90	1.29	1.69	NA	1.68
CO-KCCU	2.76	2.16	2.47	2.24	1.82	2.39	1.94	1.97	2.31	2.68	4.58	4.25	2.63
CO-KCEZ	2.03	1.80	2.71	2.60	1.86	2.39	1.78	2.30	1.55	1.49	1.68	1.86	2.00
CO-KCOS	1.93	1.63	1.60	1.93	2.88	1.29	2.59	1.25	1.30	1.75	3.06	1.50	1.89
CO-KCPW	3.64	3.09	4.51	4.28	5.23	2.33	2.00	2.88	4.18	2.73	3.77	6.00	3.72
CO-KDEN	1.89	2.13	2.28	2.11	2.18	1.55	2.35	2.05	1.34	1.47	3.16	2.11	2.05
CO-KDRO	1.38	1.10	1.95	1.64	1.64	2.65	1.48	1.32	1.22	1.39	2.09	1.27	1.59
CO-KEEO	1.72	0.92	1.06	2.06	2.44	2.00	1.28	2.23	1.49	1.68	1.19	1.30	1.61
CO-KEGE	1.52	1.76	1.34	2.79	1.44	1.28	2.15	1.21	1.84	1.38	2.06	0.72	1.62
CO-KFCS	2.01	2.31	2.24	2.11	2.57	1.24	2.94	1.94	1.51	1.31	2.31	1.53	2.00
CO-KFNL	2.02	1.47	2.30	2.02	1.77	1.36	2.26	1.67	1.36	1.60	2.16	1.60	1.80
CO-KFTG	2.20	1.96	2.79	1.98	3.38	2.18	2.22	2.74	1.10	1.63	3.80	1.57	2.30
CO-KGJT	1.94	1.84	1.57	1.40	2.27	2.61	2.19	2.35	1.16	1.32	2.48	2.05	1.93
CO-KGUC	1.62	1.21	2.20	2.55	1.61	3.61	3.98	1.58	2.78	1.07	1.34	NA	2.14
CO-KGXY	1.51	2.42	1.91	1.90	1.99	1.27	NA	1.83	1.12	1.70	1.92	1.42	1.73
CO-KHDN	1.73	1.88	3.15	2.82	1.42	2.32	2.87	2.42	2.69	2.77	1.63	3.38	2.42
CO-KITR	1.32	1.19	2.14	2.02	2.63	1.41	2.53	1.72	1.11	1.28	1.36	2.37	1.76
CO-KLAA	1.61	1.90	1.77	2.67	3.61	2.11	1.86	2.02	1.46	2.03	3.39	2.20	2.22
CO-KLHX	2.24	1.72	2.65	2.68	3.14	2.40	3.12	1.61	1.64	2.36	3.47	1.94	2.41
CO-KLIC	1.75	1.67	2.96	1.88	2.78	1.25	3.15	2.81	1.47	1.74	2.52	1.15	2.09
CO-KLXV	1.73	1.47	2.48	2.04	1.74	1.56	1.92	2.06	2.13	1.97	3.20	2.68	2.08

Region	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
CO-KMNH	1.31	1.14	3.45	2.29	3.58	0.93	2.43	1.89	NA	NA	NA	2.22	2.14
CO-KMTJ	1.89	1.35	2.22	2.06	1.28	1.97	1.66	2.37	1.12	1.20	1.51	1.39	1.67
CO-KMYP	NA	NA	NA	NA	NA	NA	4.12	3.21	4.34	5.21	NA	NA	4.22
CO-KPUB	2.71	1.87	2.17	2.58	2.57	2.30	2.92	1.89	1.37	0.86	2.40	1.77	2.12
CO-KRIL	1.15	1.97	2.42	2.90	1.85	2.26	1.70	2.39	1.51	1.79	2.08	1.72	1.98
CO-KSPD	2.63	1.98	1.79	2.59	3.46	2.22	1.04	1.44	2.21	1.22	1.74	1.94	2.02
CO-KTAD	1.51	2.07	1.71	2.28	1.72	2.72	2.58	2.95	1.66	2.16	1.71	2.36	2.12
CO-KTEX	1.39	3.02	2.69	2.25	1.71	2.53	1.15	2.96	1.06	1.28	1.68	1.98	1.98
CO-KVTP	1.89	2.45	3.00	1.91	2.71	2.95	2.12	3.80	2.63	2.93	3.62	5.33	2.95

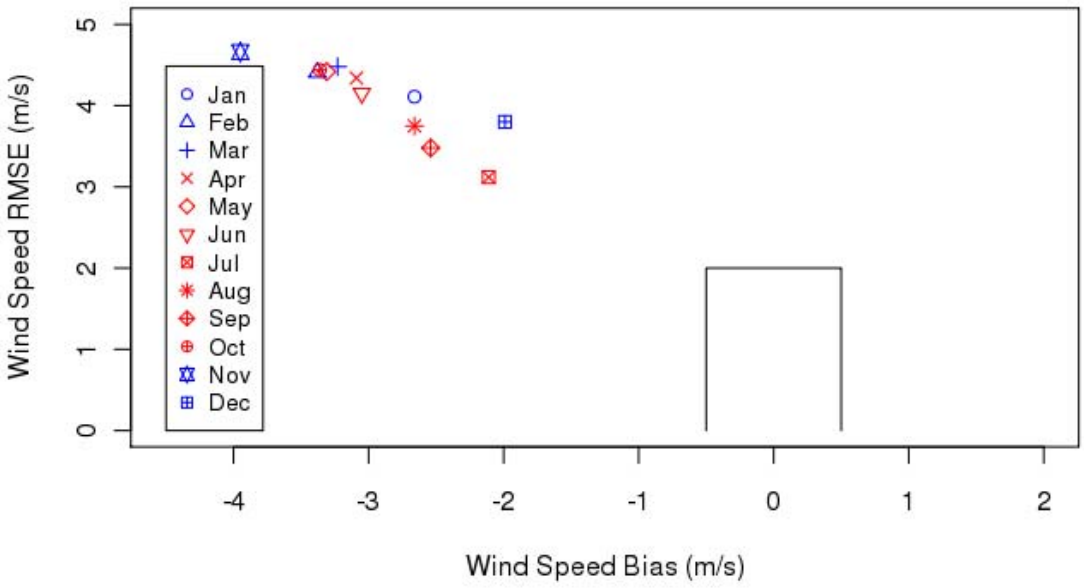
CO-K0CO 04km Wind Direction Performance Comparison



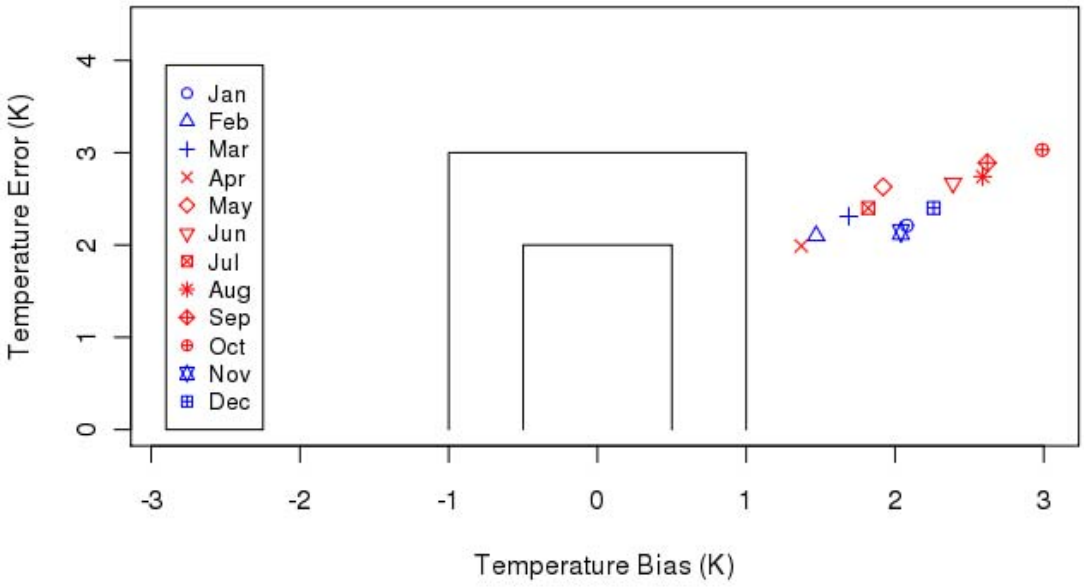
CO-K0CO 04km Humidity Performance Comparison



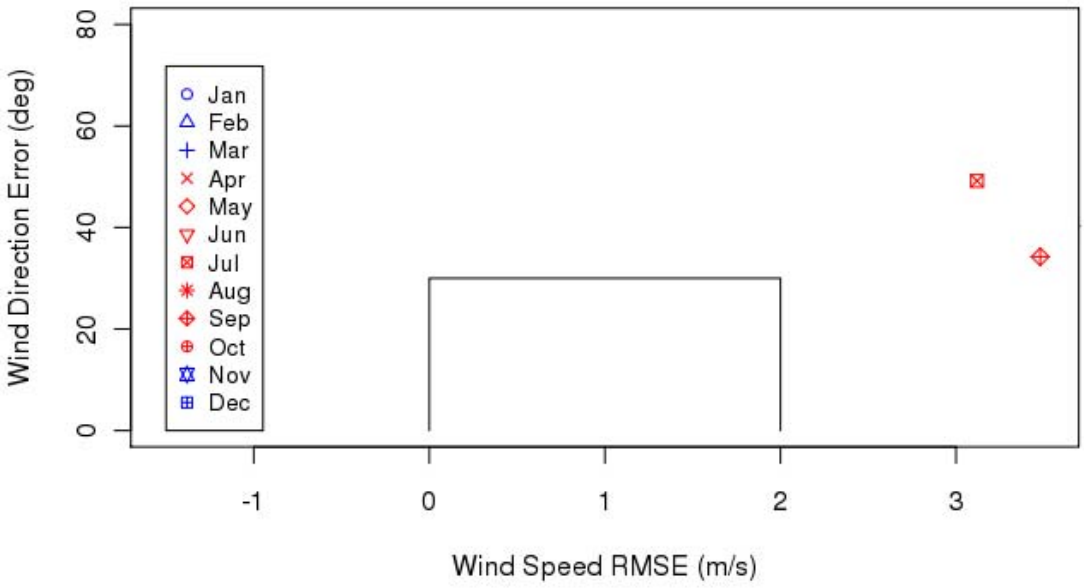
CO-K0CO 04km Wind Speed Performance Comparison



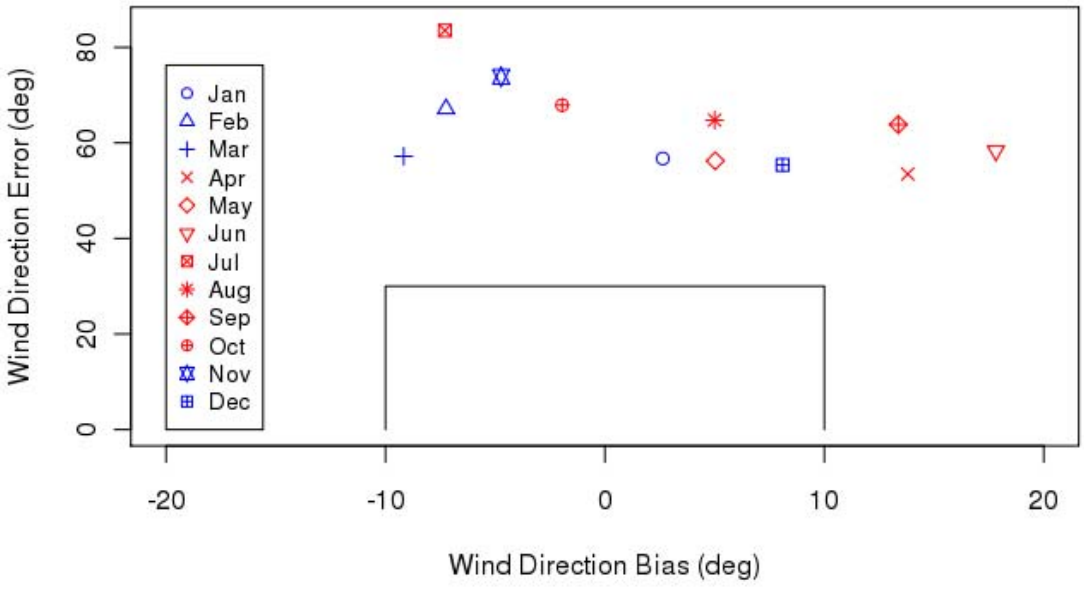
CO-K0CO 04km Temperature Performance Comparison



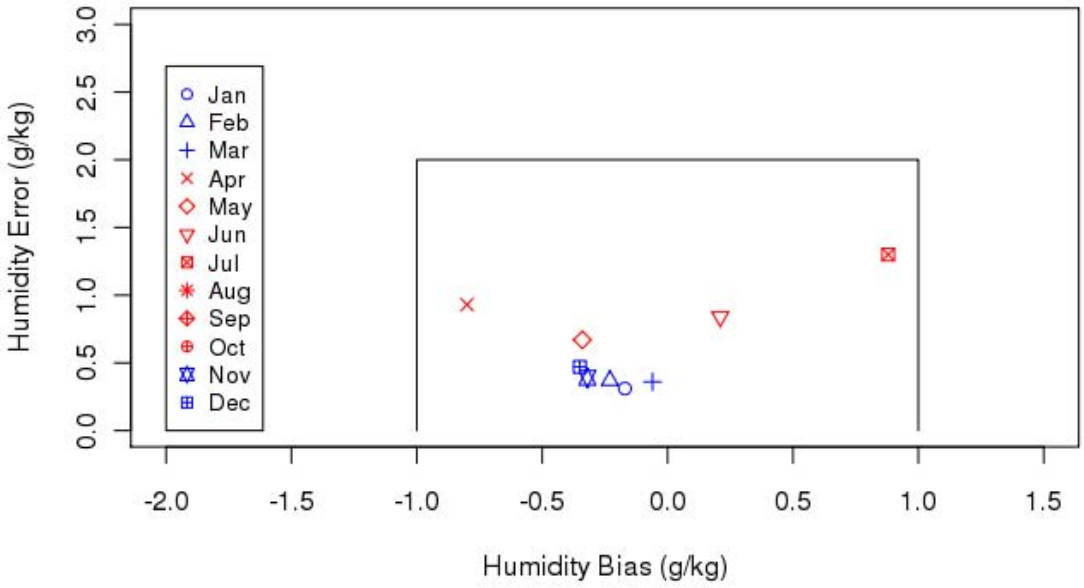
CO-K0CO 04km Wind Performance Comparison



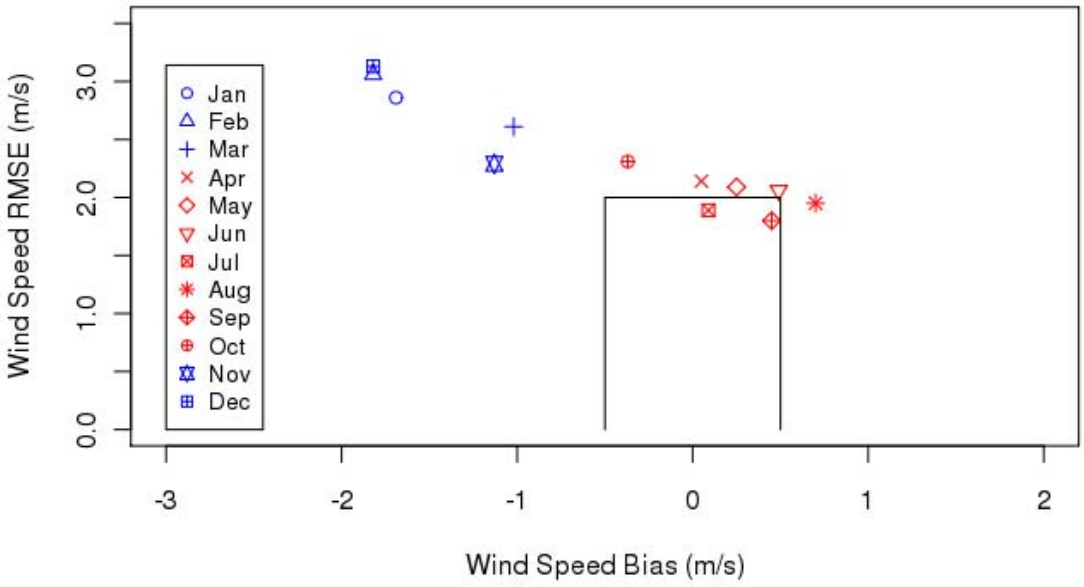
CO-K3MW 04km Wind Direction Performance Comparison



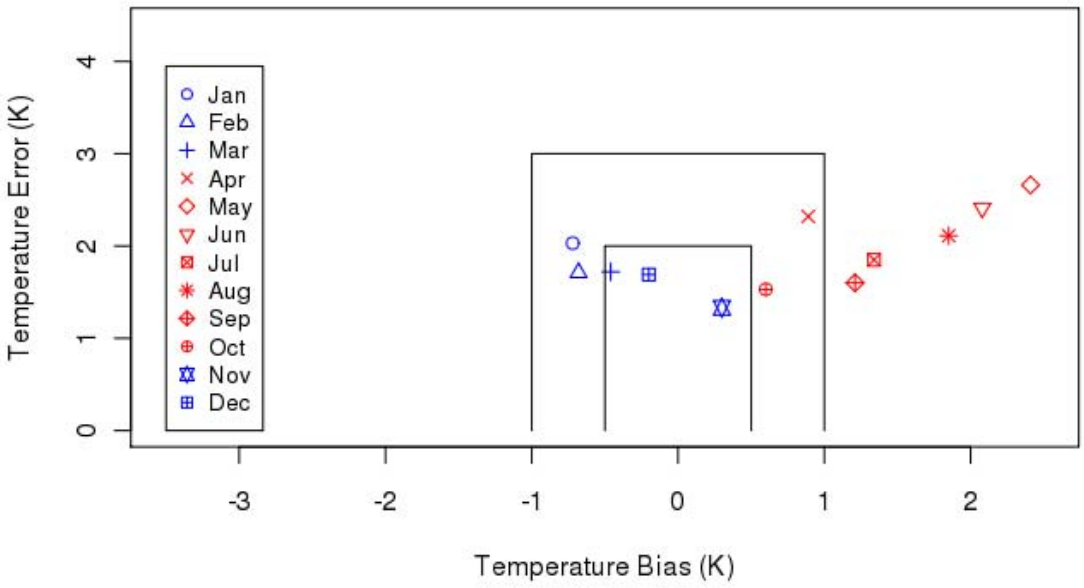
CO-K3MW 04km Humidity Performance Comparison



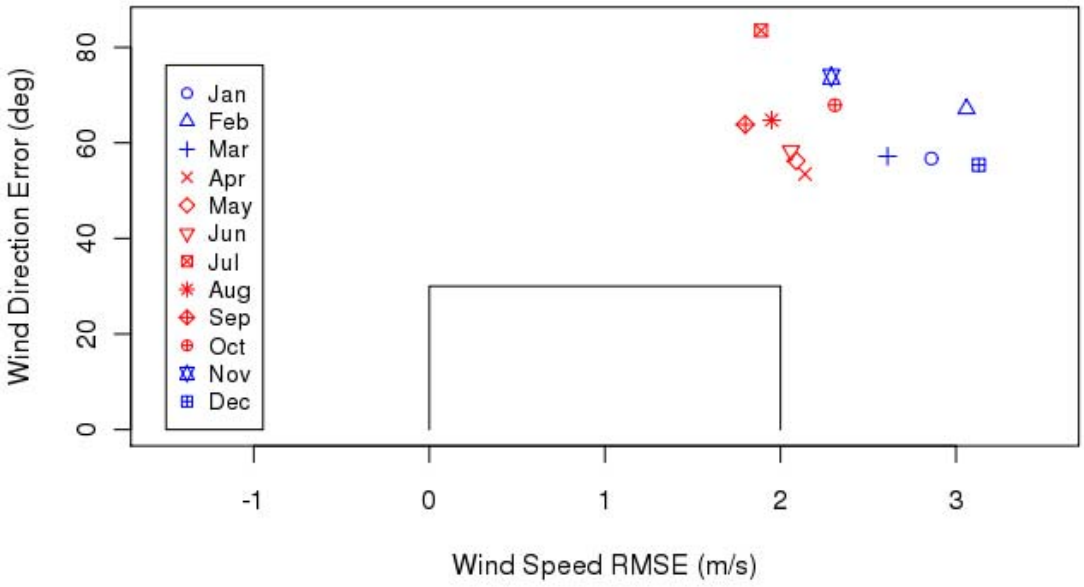
CO-K3MW 04km Wind Speed Performance Comparison



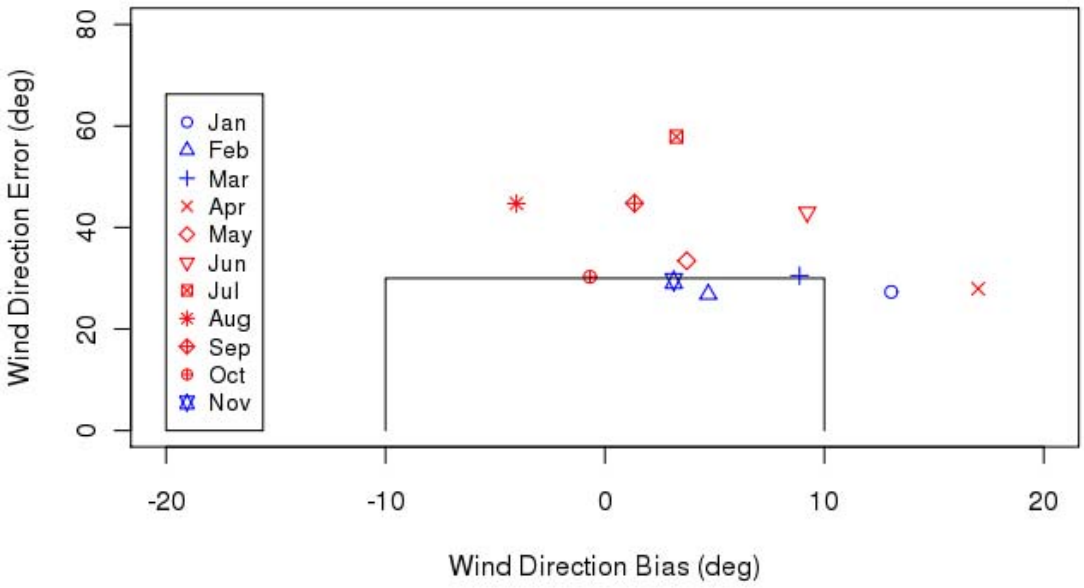
CO-K3MW 04km Temperature Performance Comparison



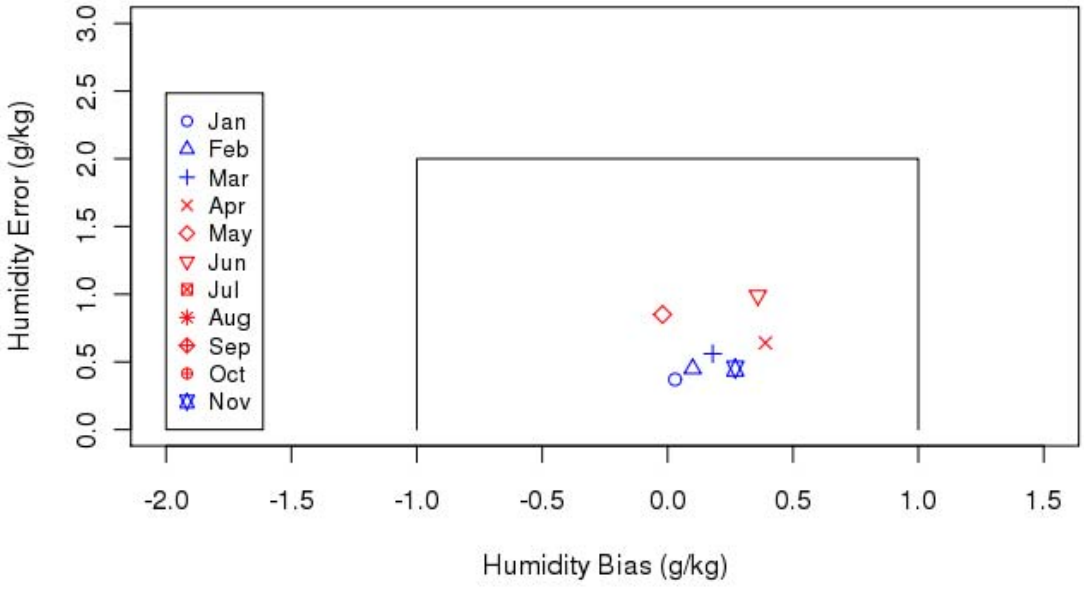
CO-K3MW 04km Wind Performance Comparison



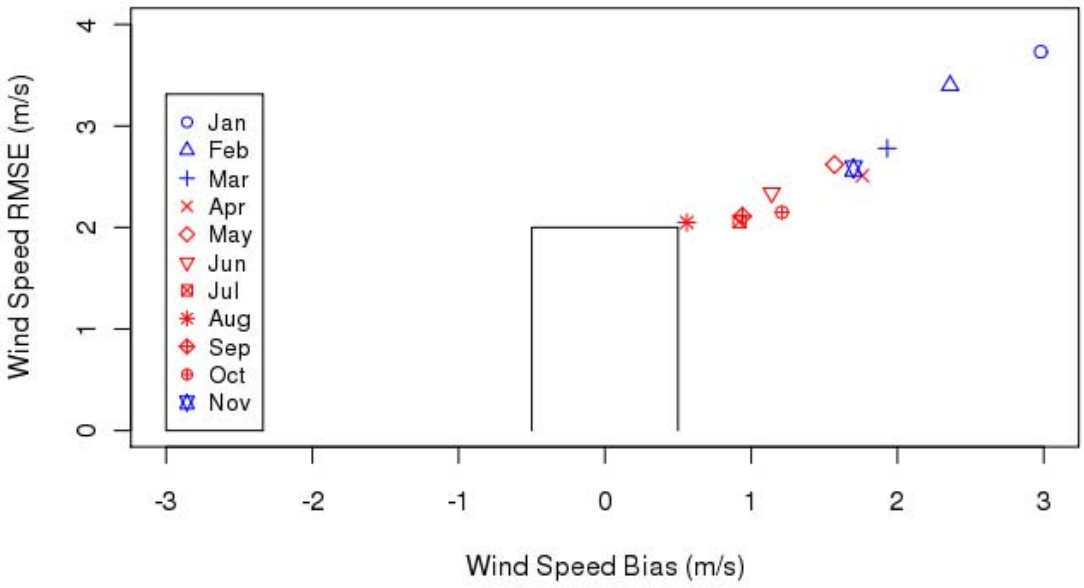
CO-K4BM 04km Wind Direction Performance Comparison



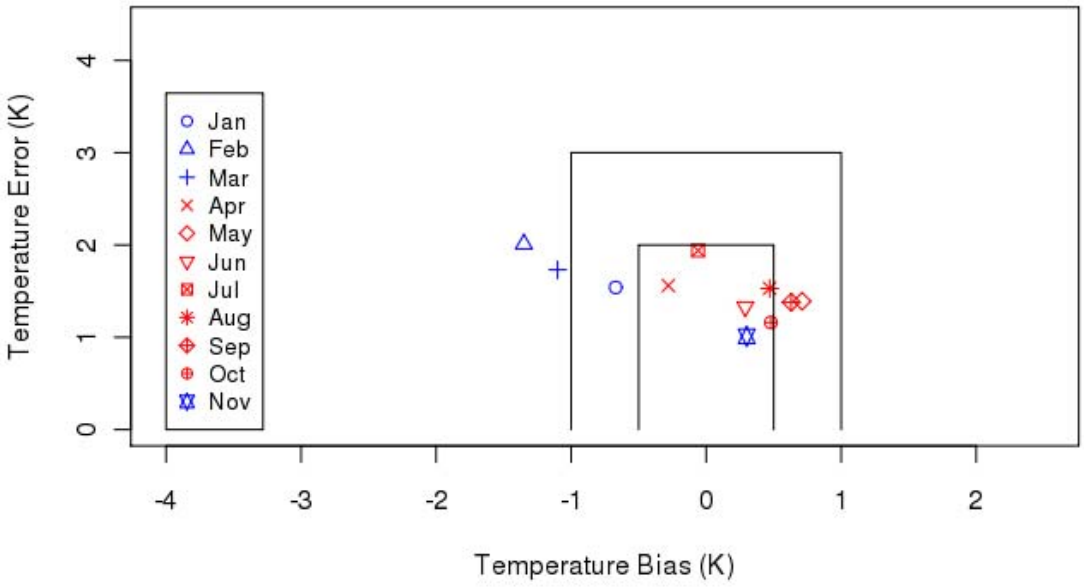
CO-K4BM 04km Humidity Performance Comparison



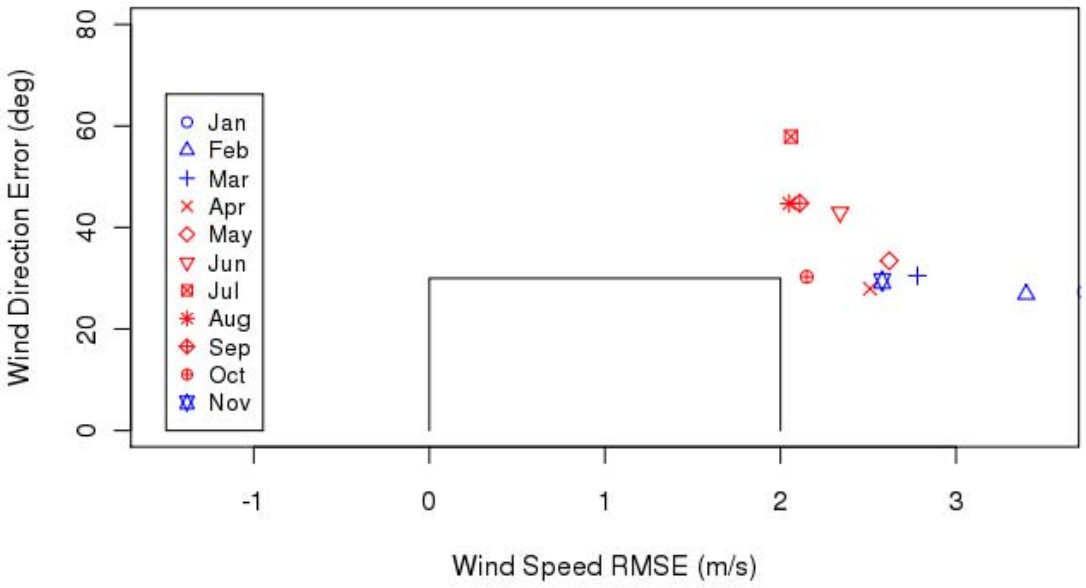
CO-K4BM 04km Wind Speed Performance Comparison



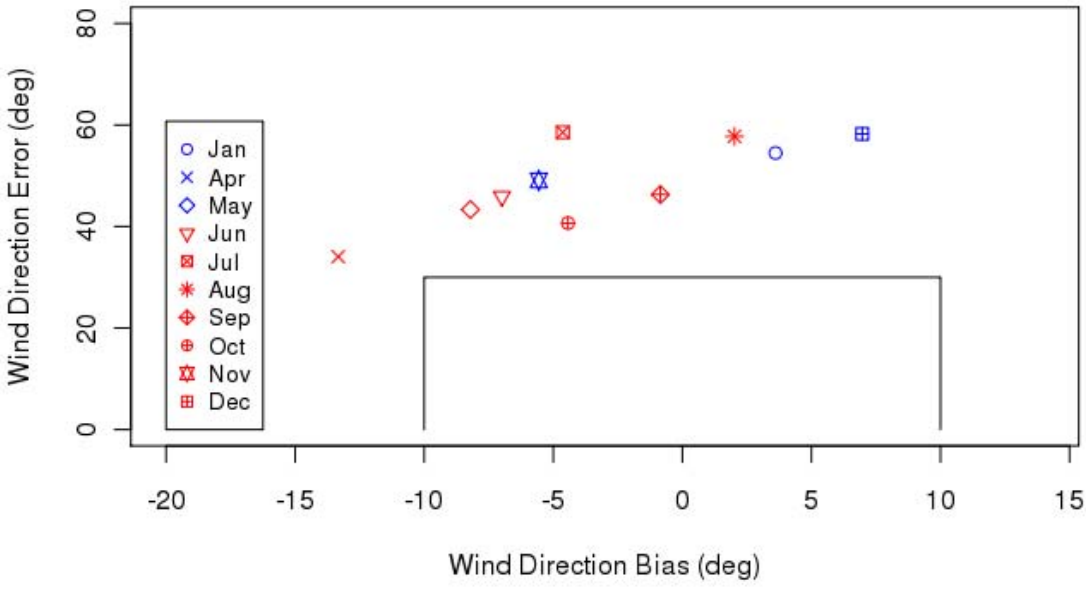
CO-K4BM 04km Temperature Performance Comparison



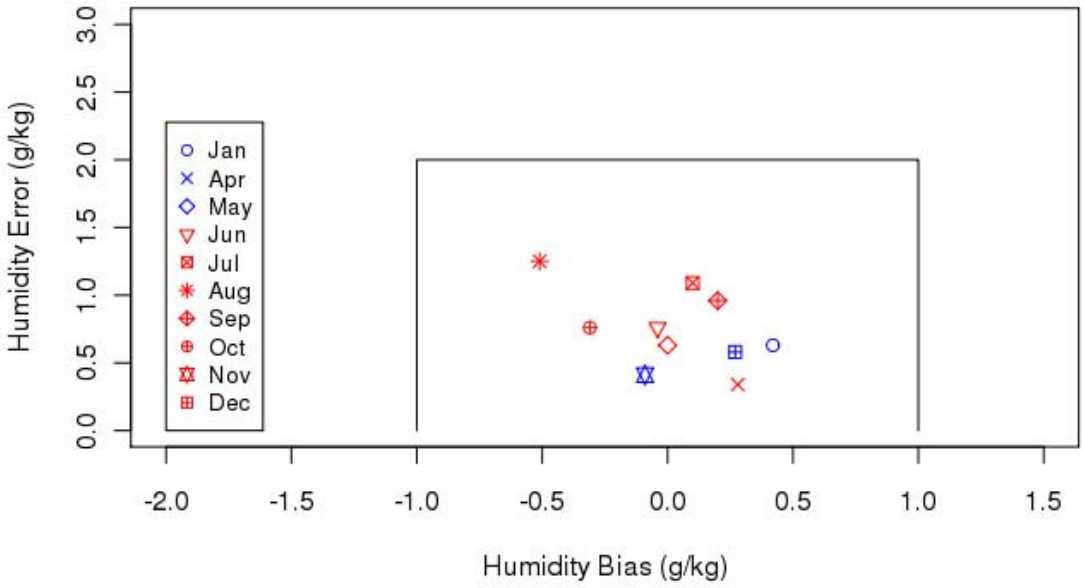
CO-K4BM 04km Wind Performance Comparison



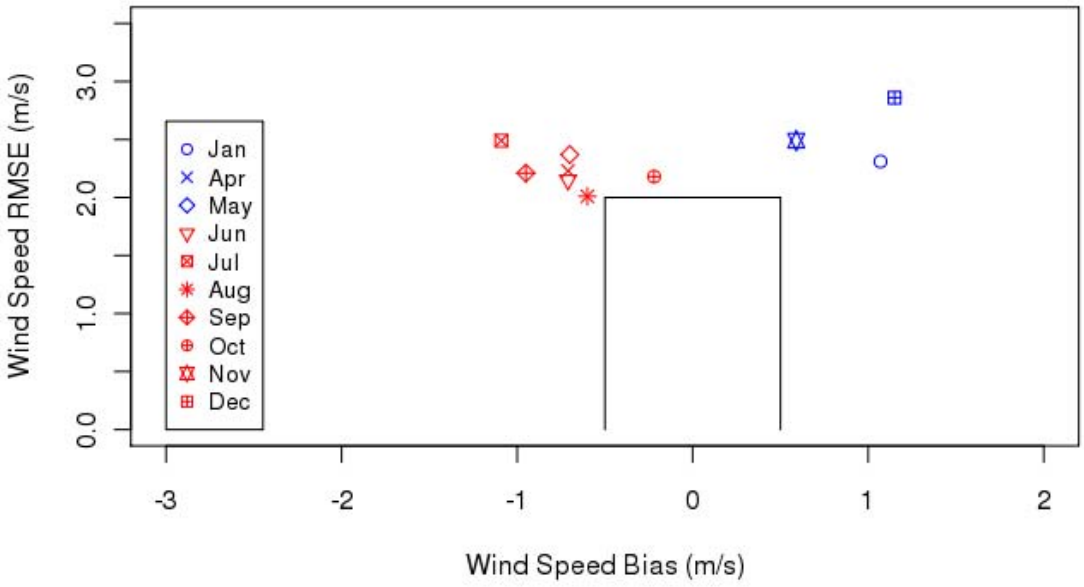
CO-K04V 04km Wind Direction Performance Comparison



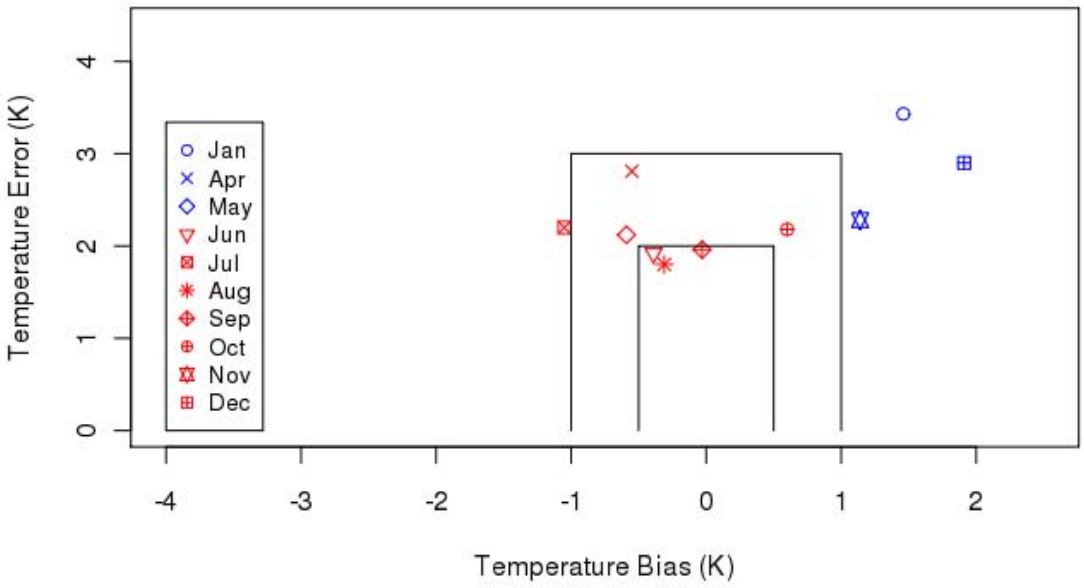
CO-K04V 04km Humidity Performance Comparison



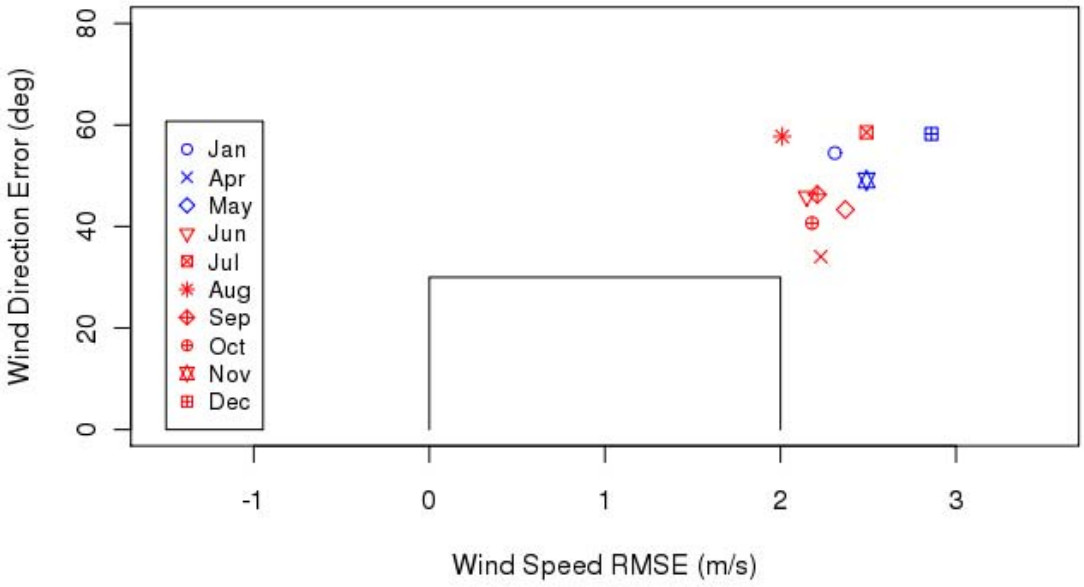
CO-K04V 04km Wind Speed Performance Comparison



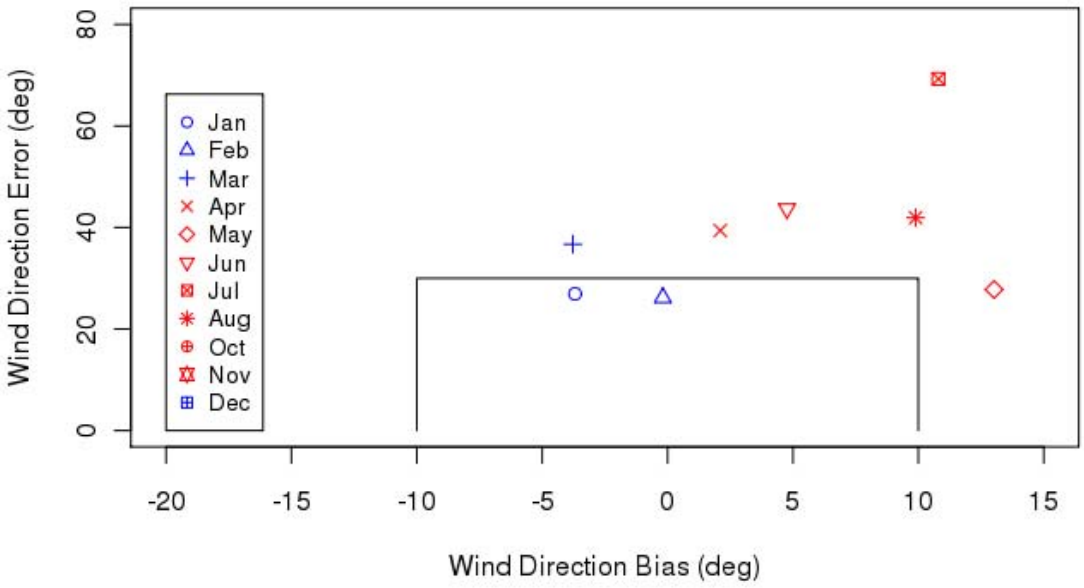
CO-K04V 04km Temperature Performance Comparison



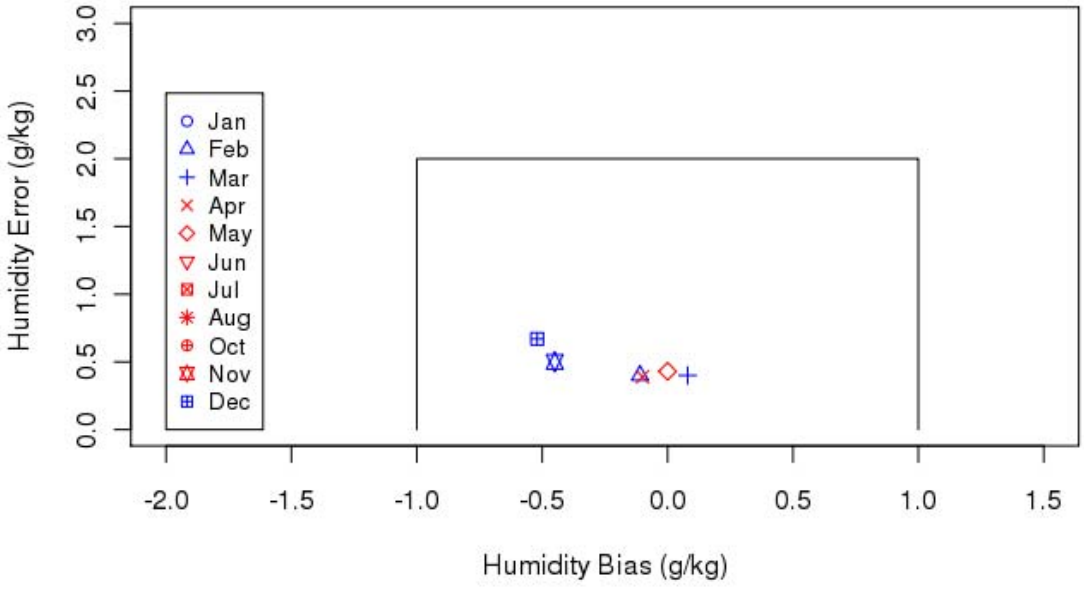
CO-K04V 04km Wind Performance Comparison



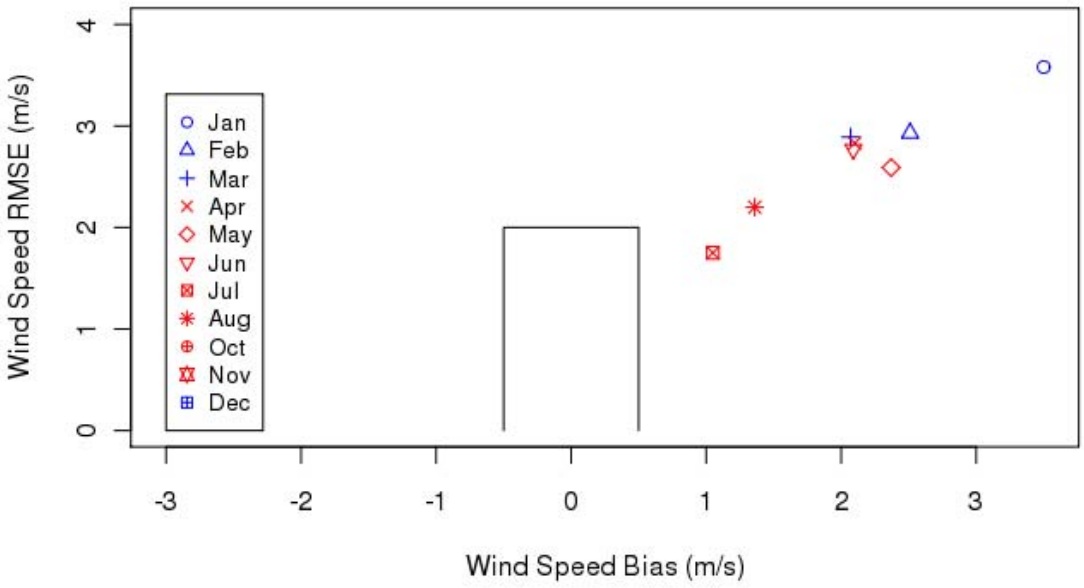
CO-K5SM 04km Wind Direction Performance Comparison



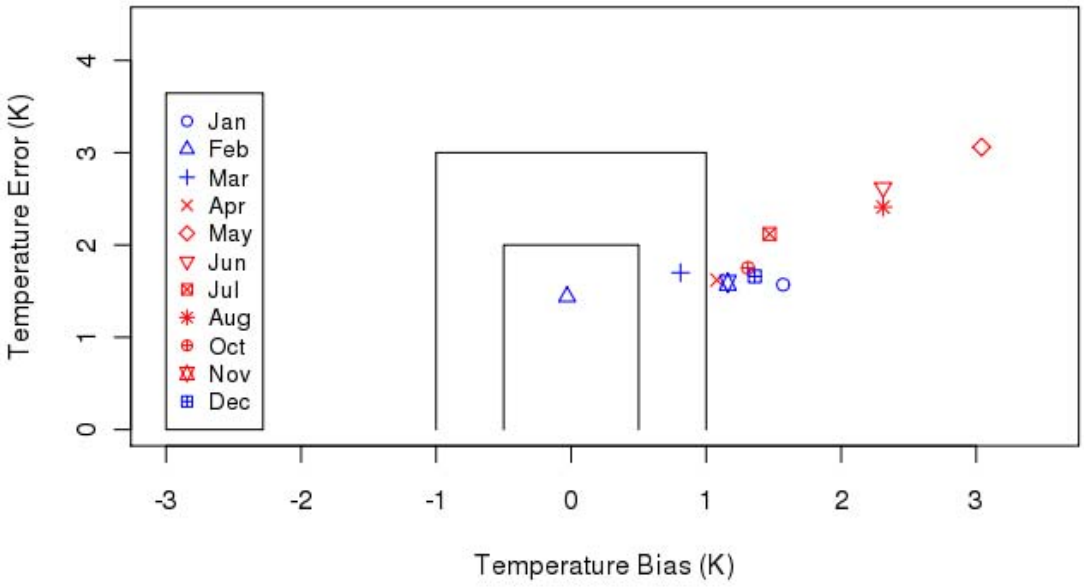
CO-K5SM 04km Humidity Performance Comparison



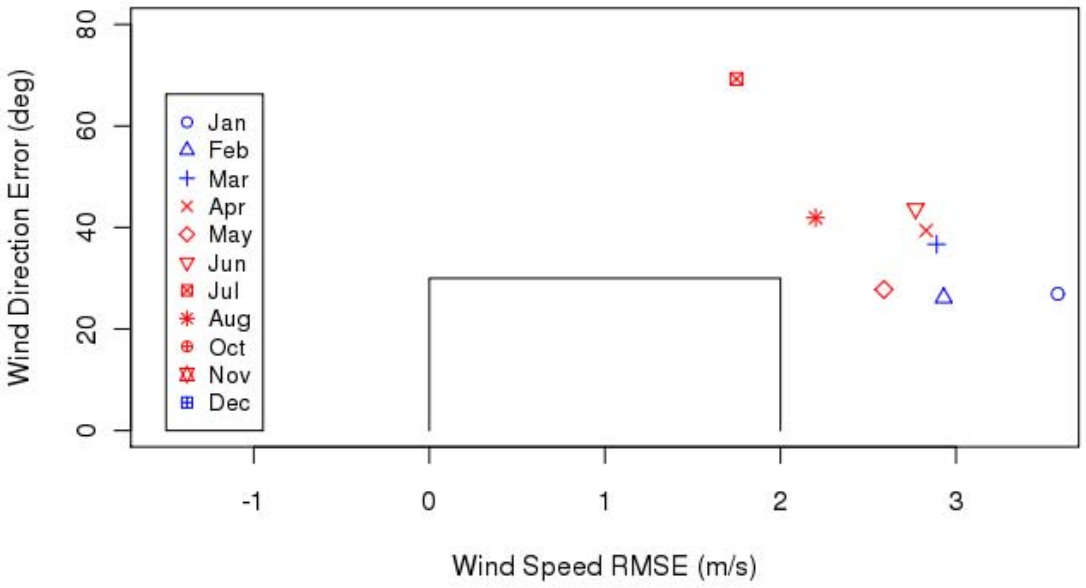
CO-K5SM 04km Wind Speed Performance Comparison



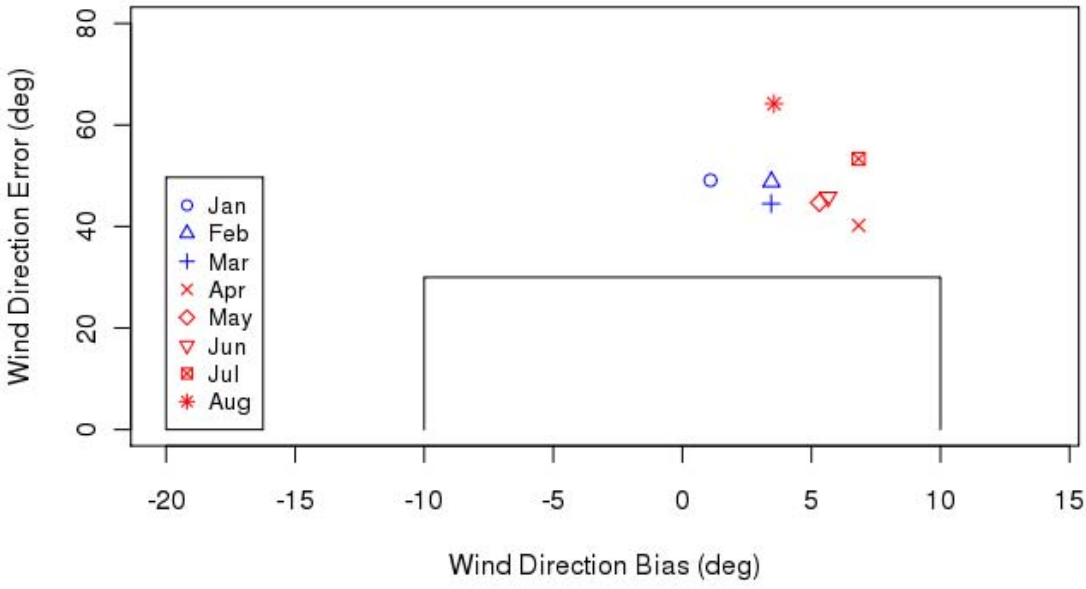
CO-K5SM 04km Temperature Performance Comparison



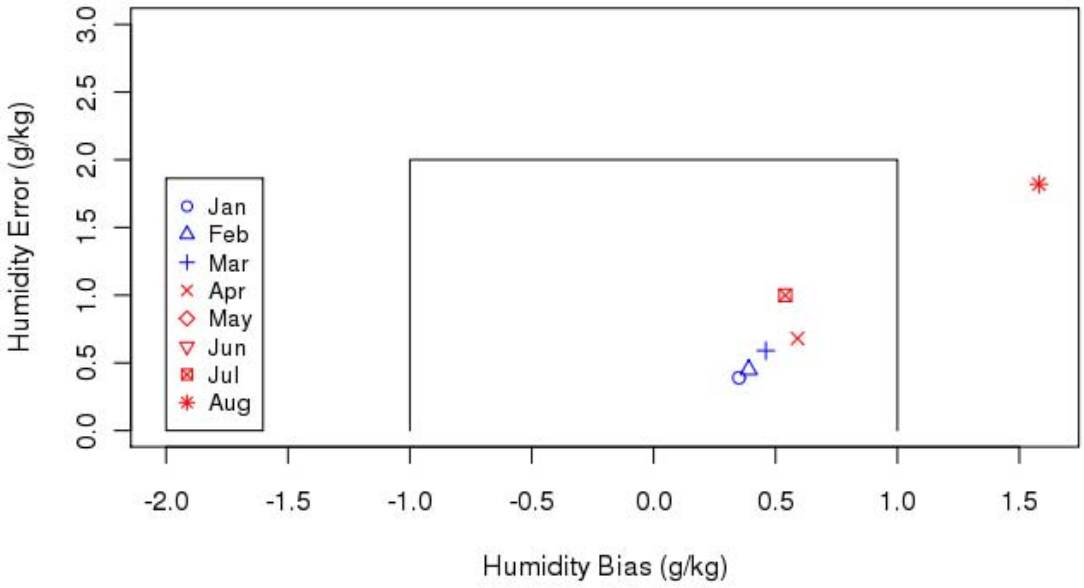
CO-K5SM 04km Wind Performance Comparison



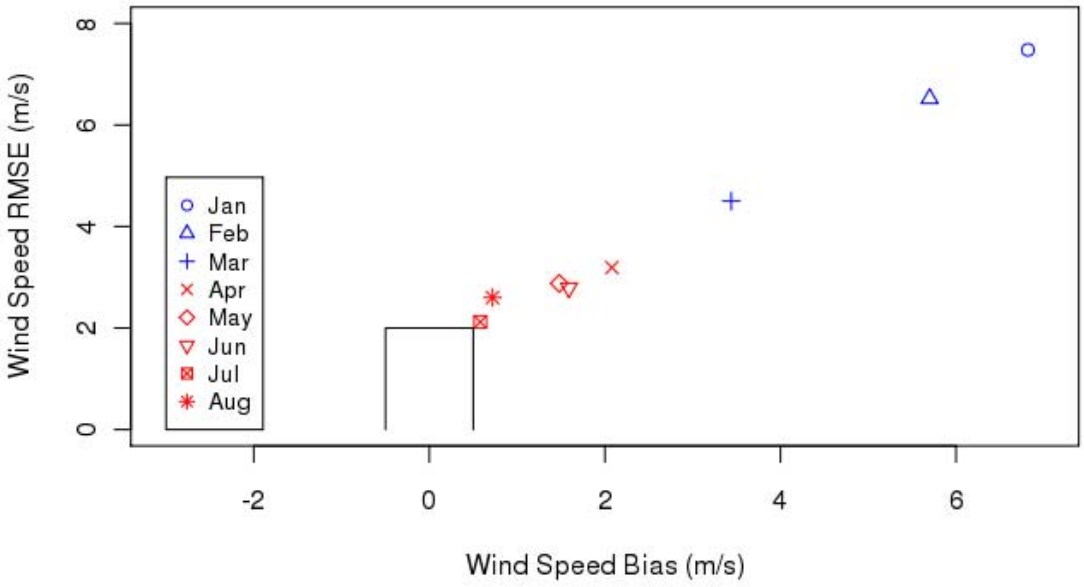
CO-K7BM 04km Wind Direction Performance Comparison

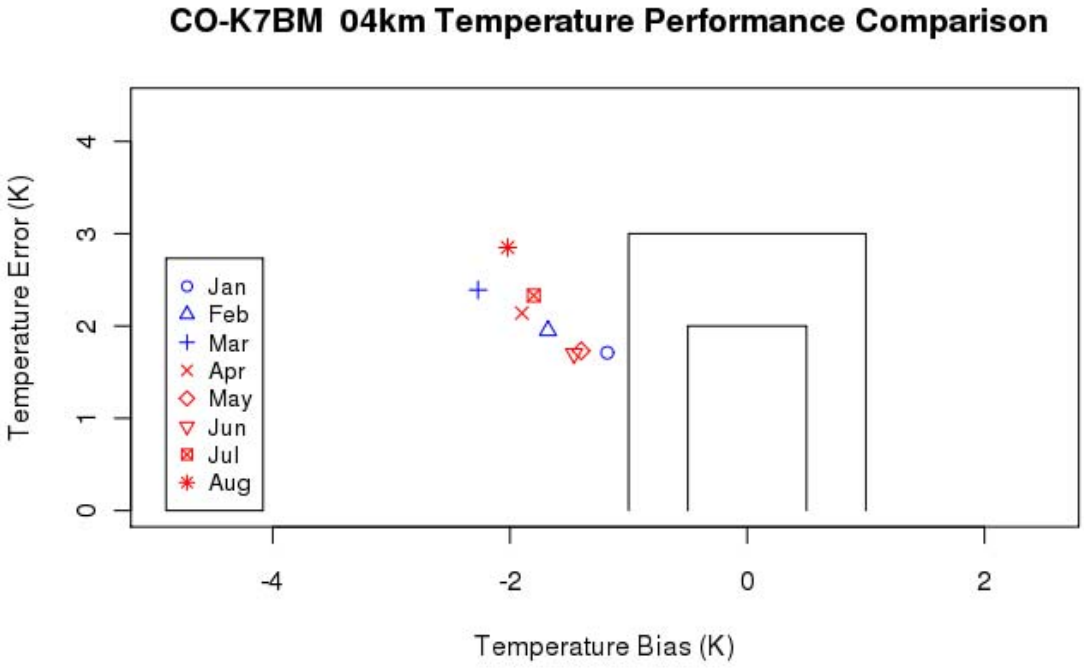


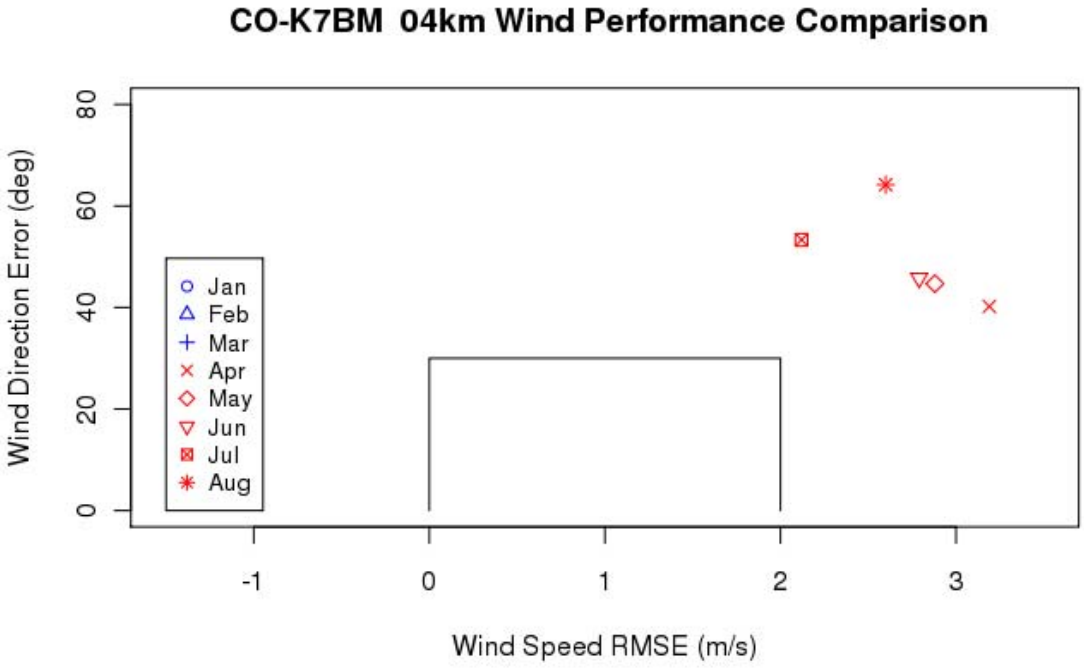
CO-K7BM 04km Humidity Performance Comparison



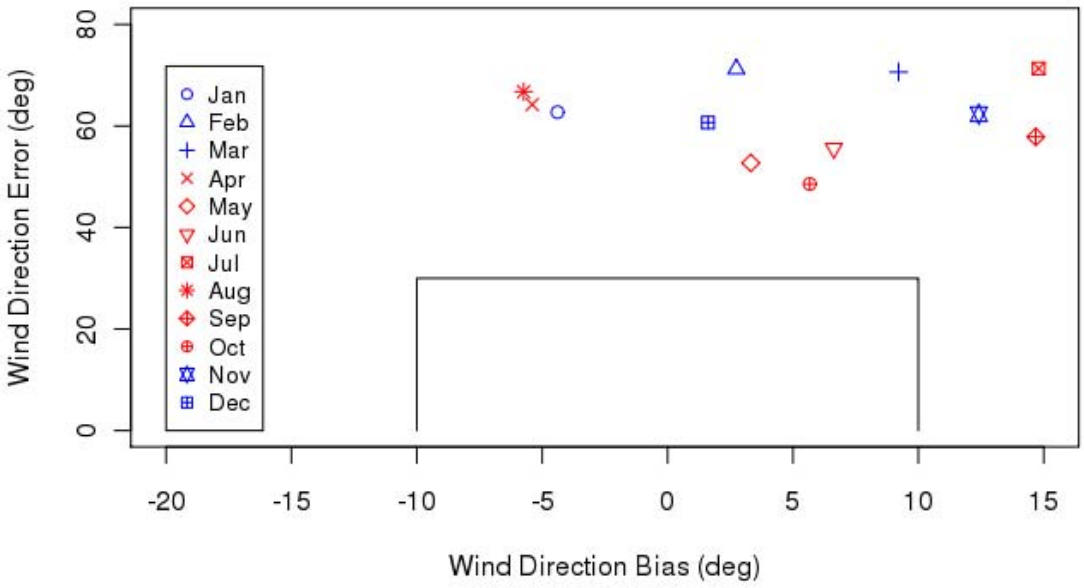
CO-K7BM 04km Wind Speed Performance Comparison



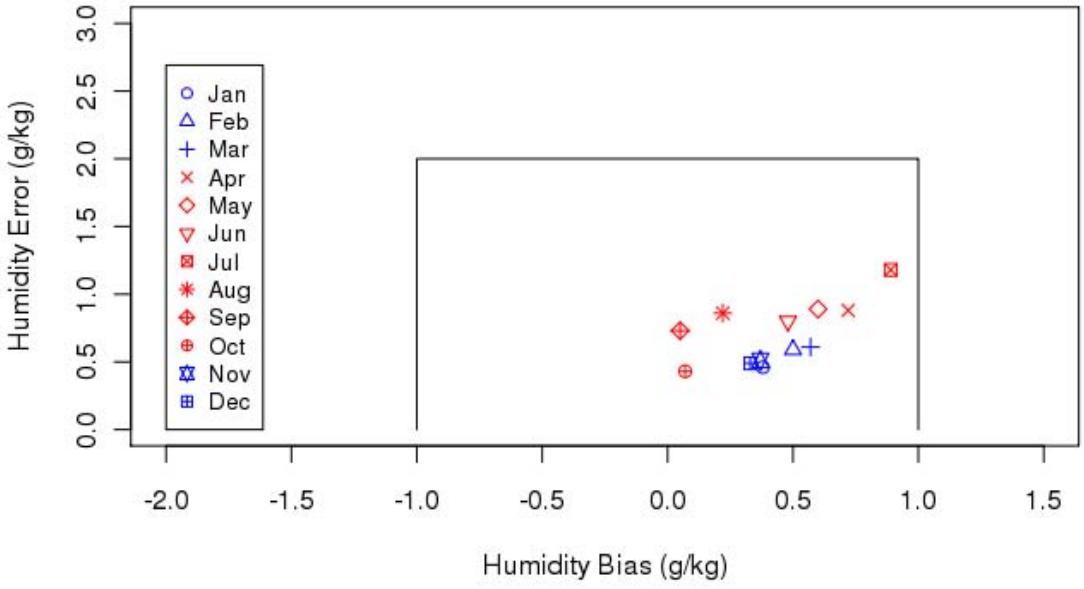

CO-K7BM 04km Temperature Performance Comparison
Temperature Error (K)
0
1
2
3
4
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
-4
-2
0
2
Temperature Bias (K)


CO-K7BM 04km Wind Performance Comparison
Wind Direction Error (deg)
0
20
40
60
80
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
-1
0
1
2
3
Wind Speed RMSE (m/s)

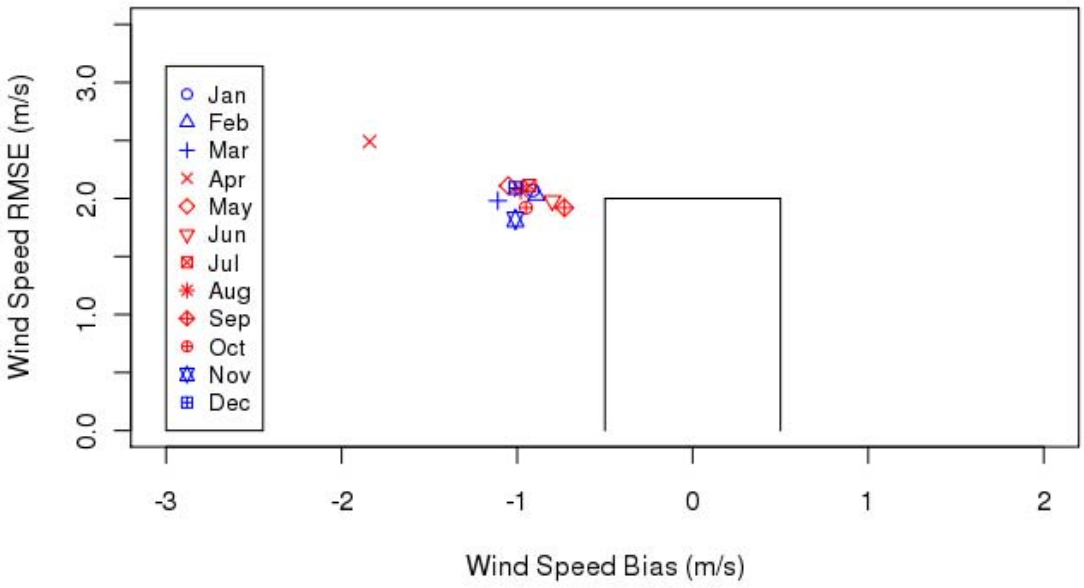
CO-K20V 04km Wind Direction Performance Comparison



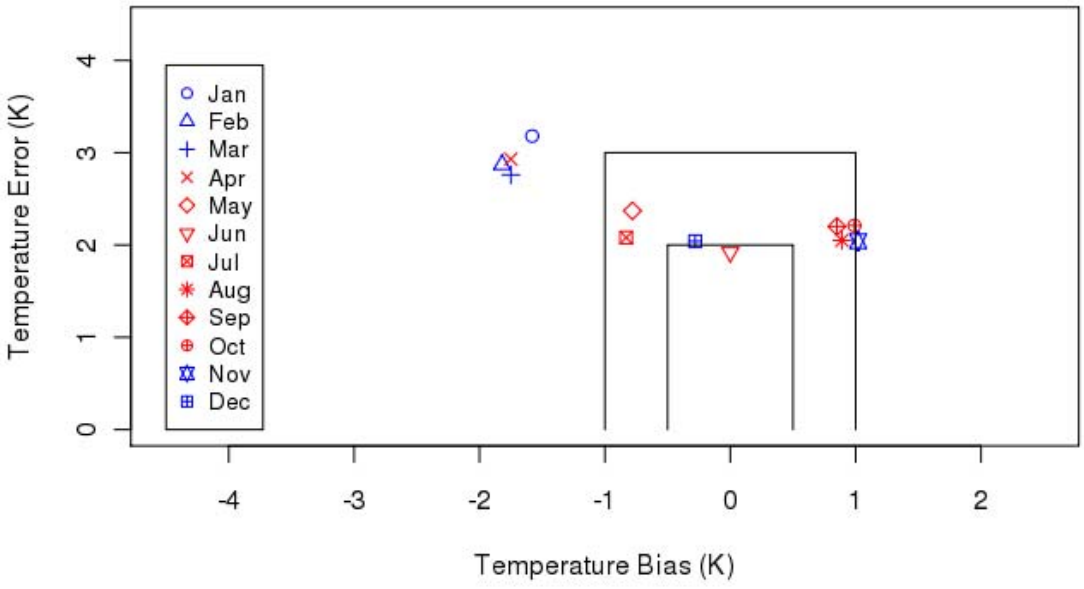
CO-K20V 04km Humidity Performance Comparison



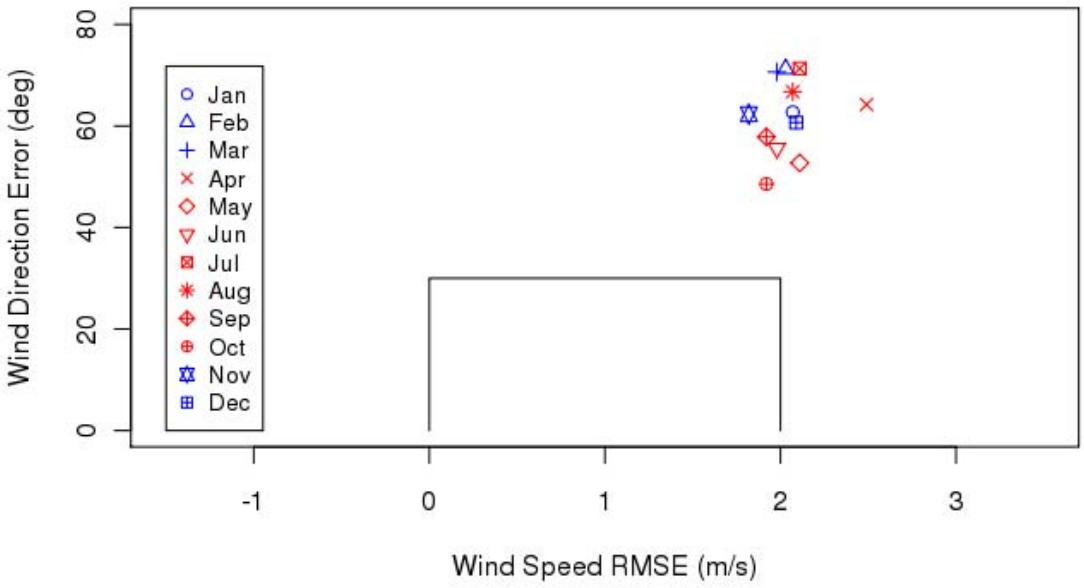
CO-K20V 04km Wind Speed Performance Comparison



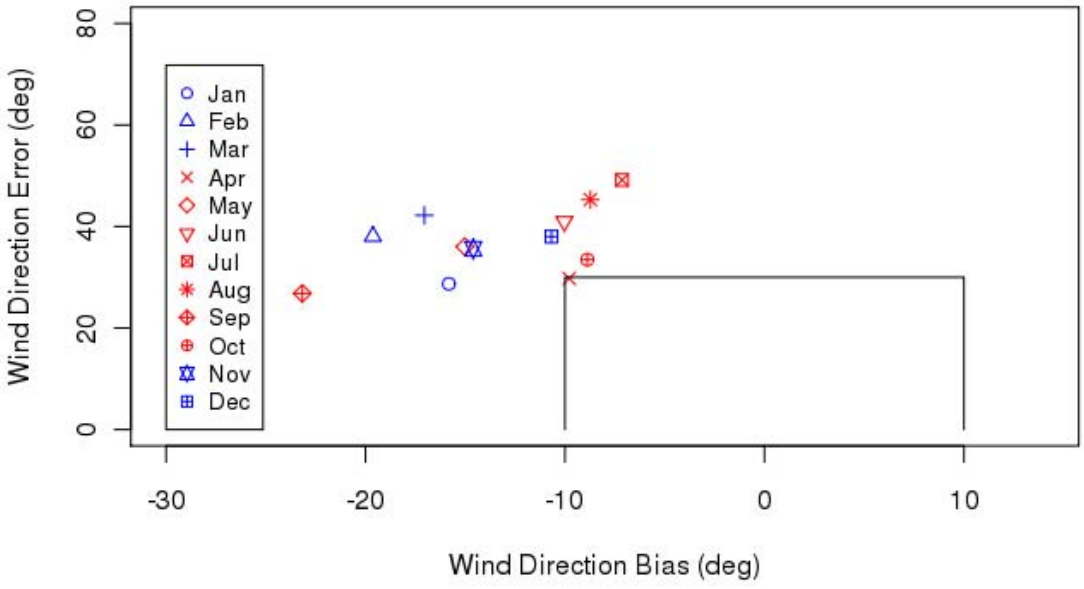
CO-K20V 04km Temperature Performance Comparison



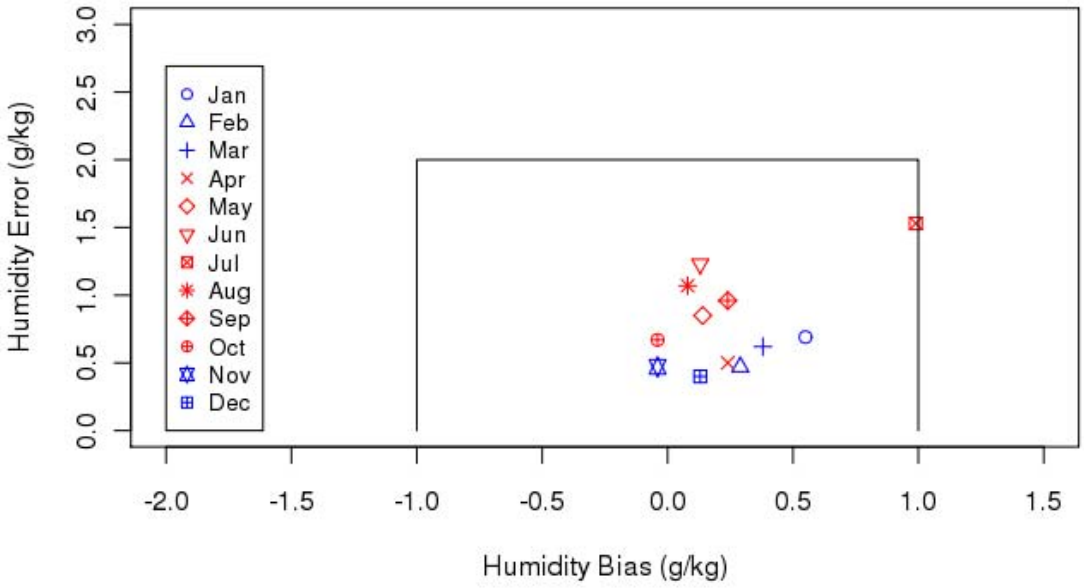
CO-K20V 04km Wind Performance Comparison



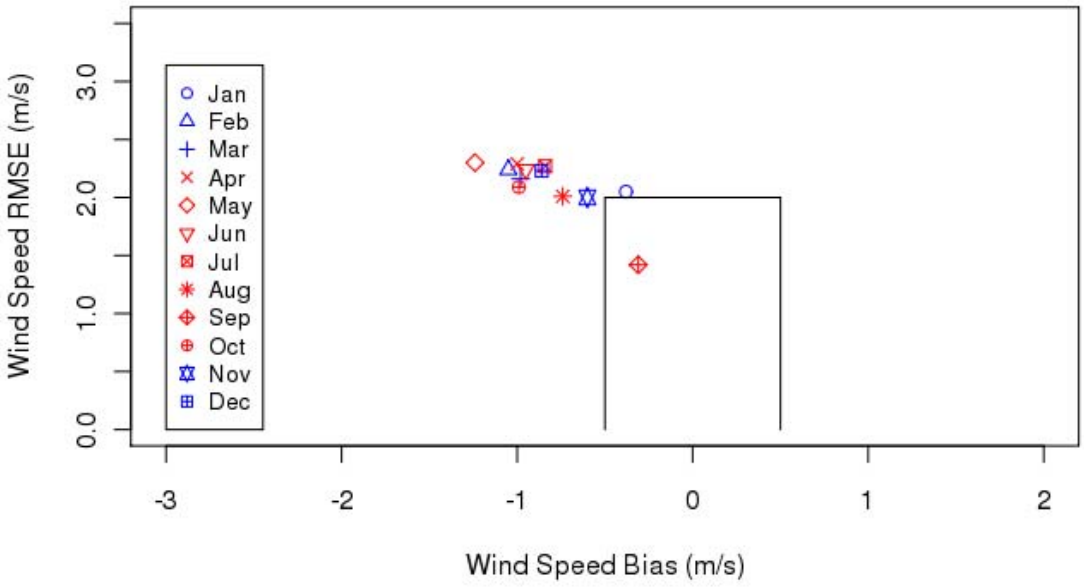
CO-KABH 04km Wind Direction Performance Comparison



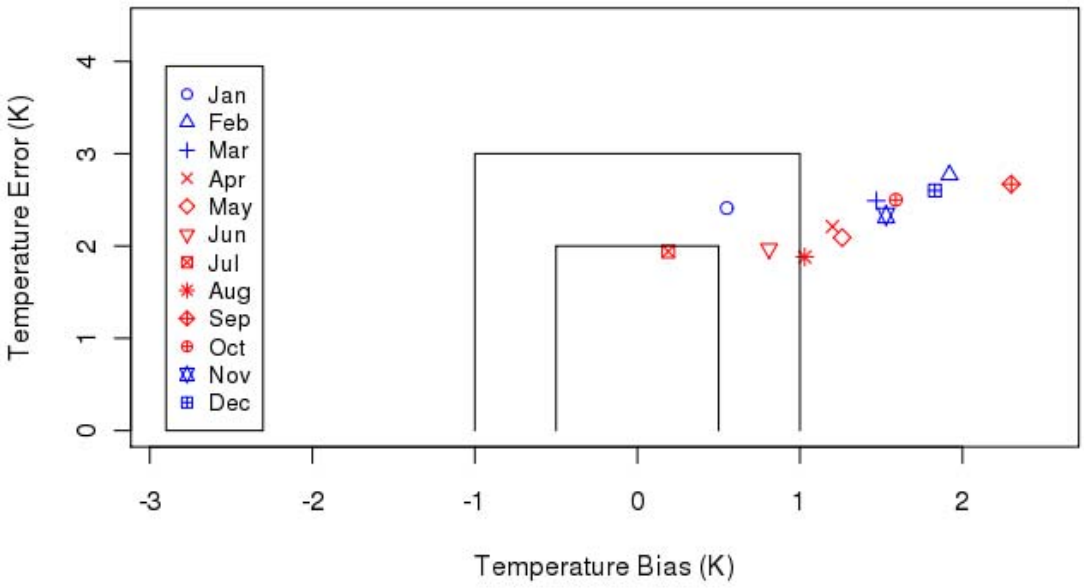
CO-KABH 04km Humidity Performance Comparison



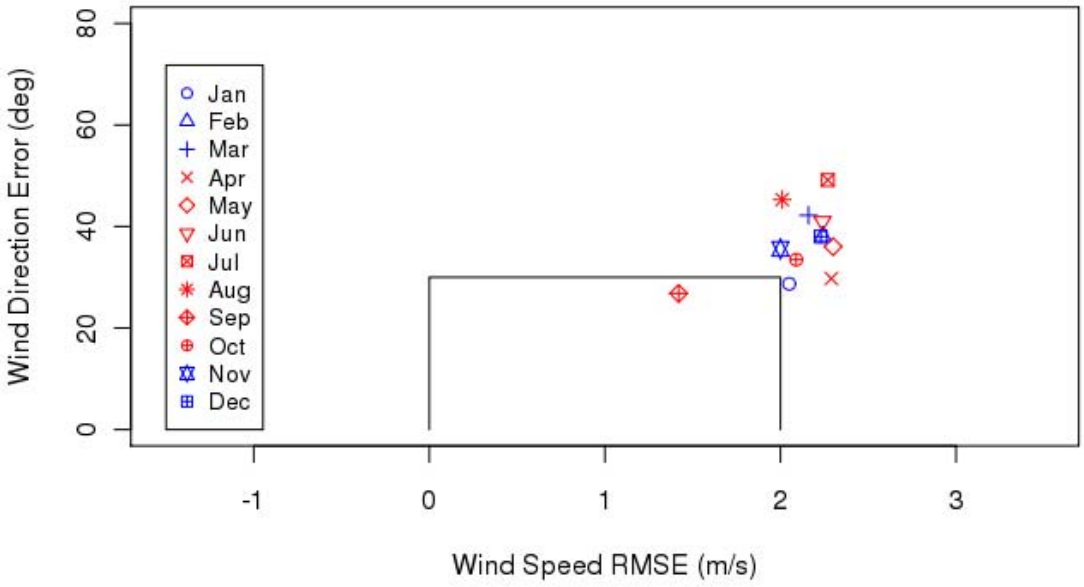
CO-KABH 04km Wind Speed Performance Comparison



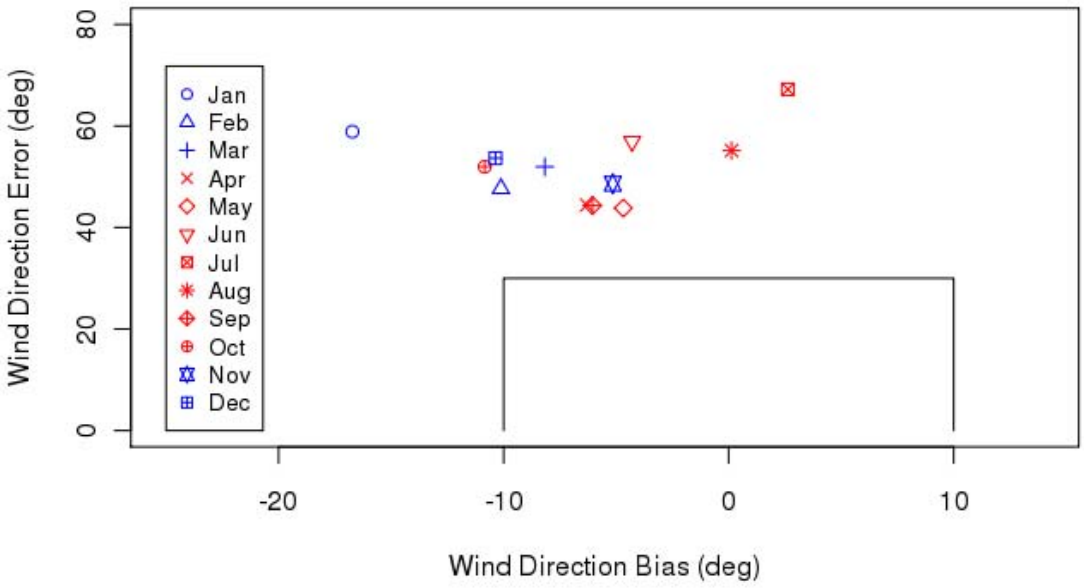
CO-KABH 04km Temperature Performance Comparison



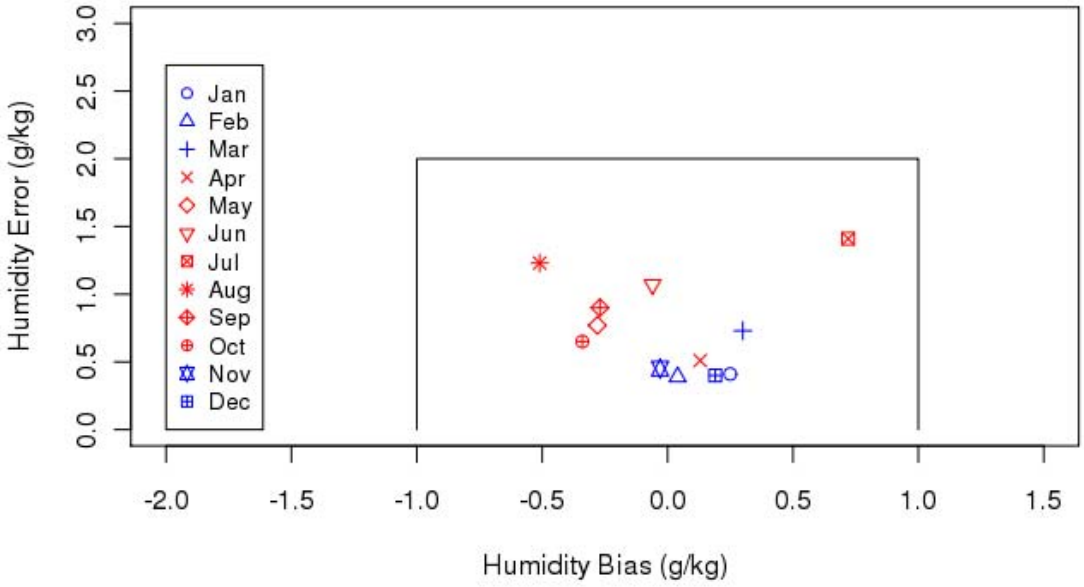
CO-KABH 04km Wind Performance Comparison



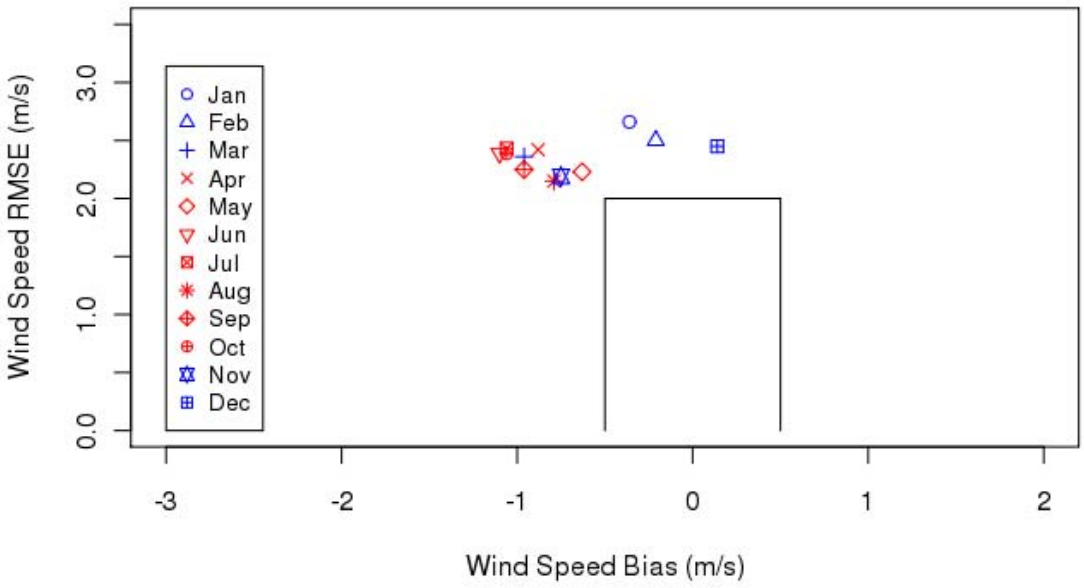
CO-KAFF 04km Wind Direction Performance Comparison



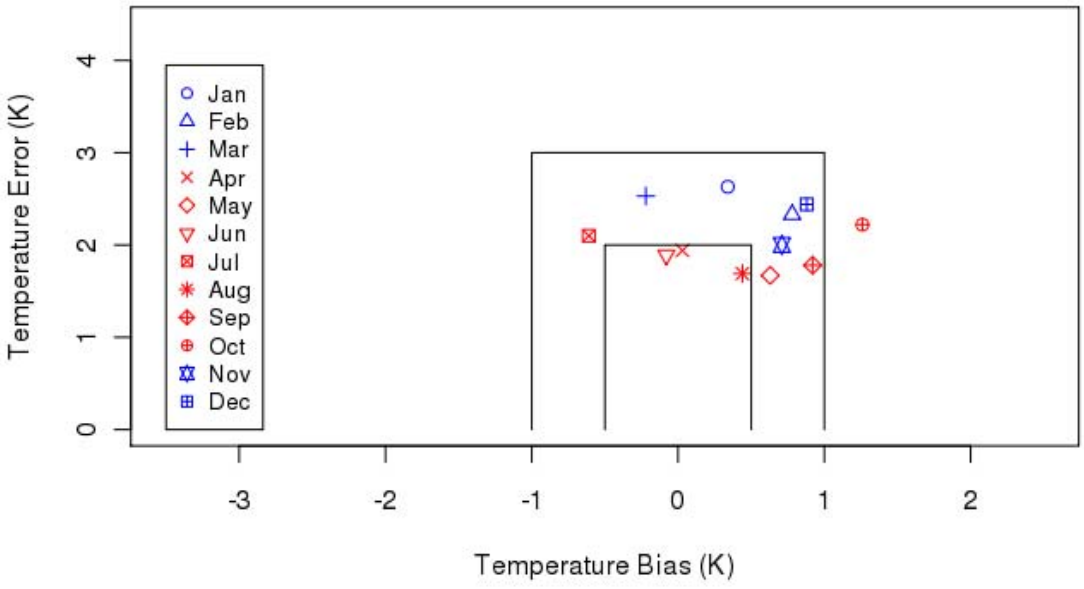
CO-KAFF 04km Humidity Performance Comparison



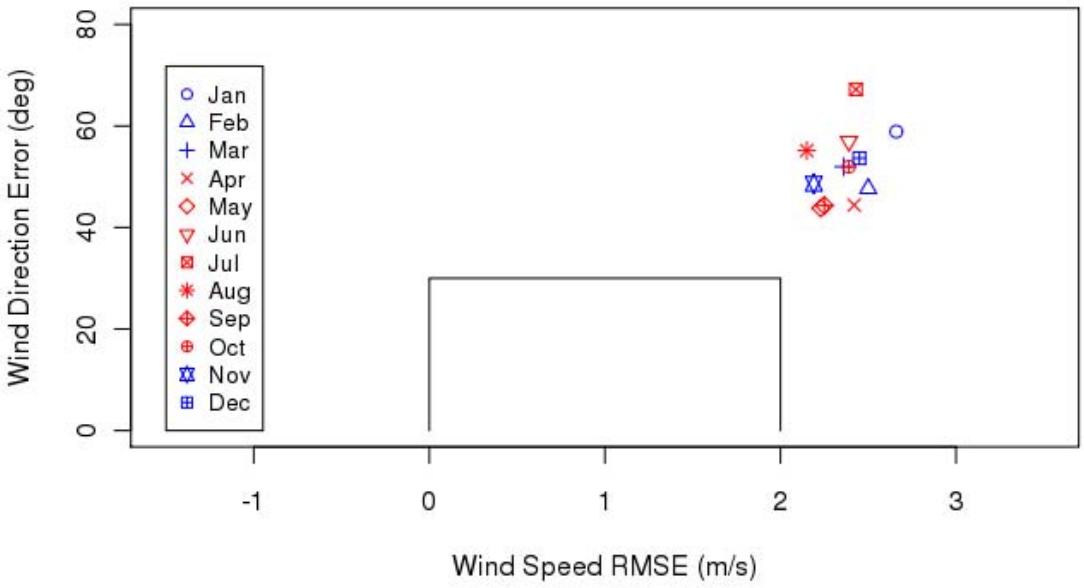
CO-KAFF 04km Wind Speed Performance Comparison



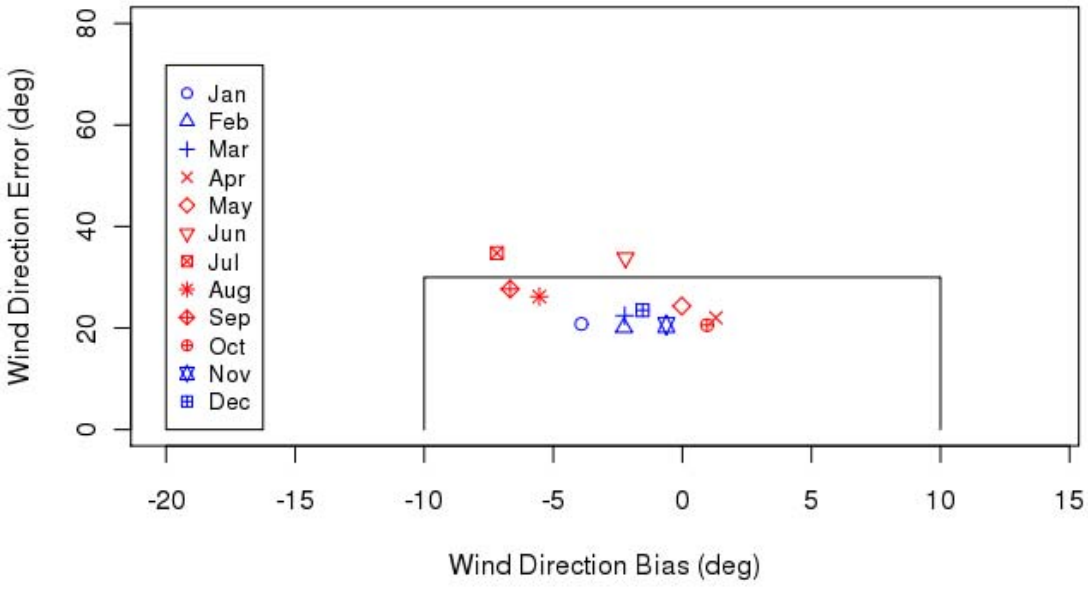
CO-KAFF 04km Temperature Performance Comparison



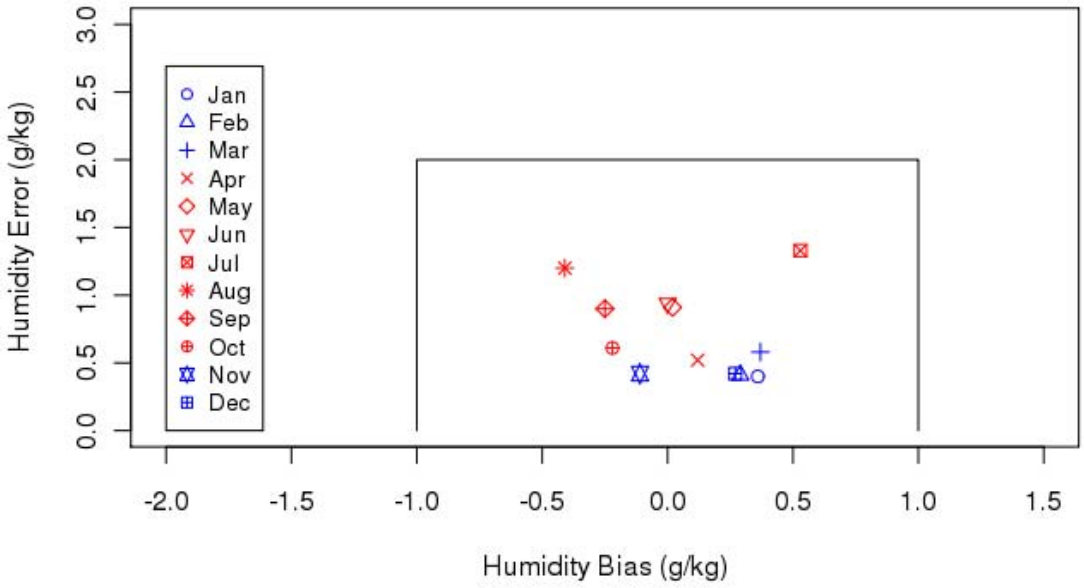
CO-KAFF 04km Wind Performance Comparison



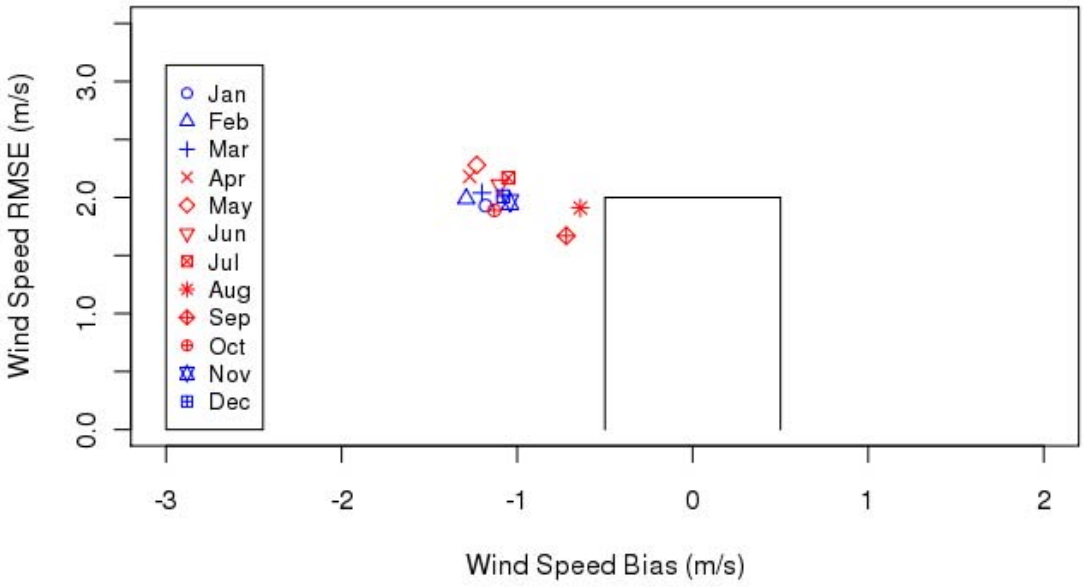
CO-KAKO 04km Wind Direction Performance Comparison



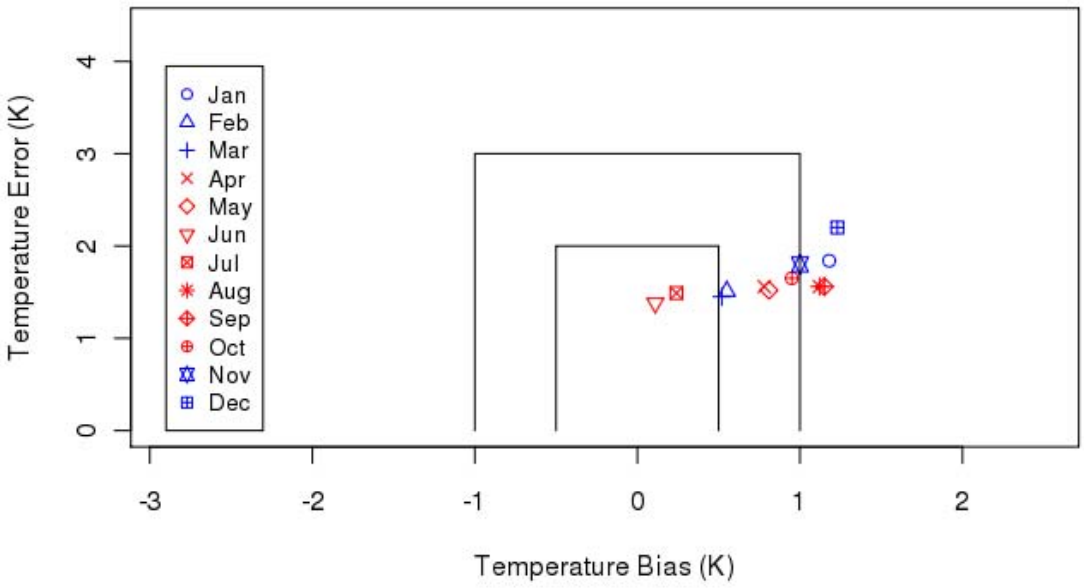
CO-KAKO 04km Humidity Performance Comparison



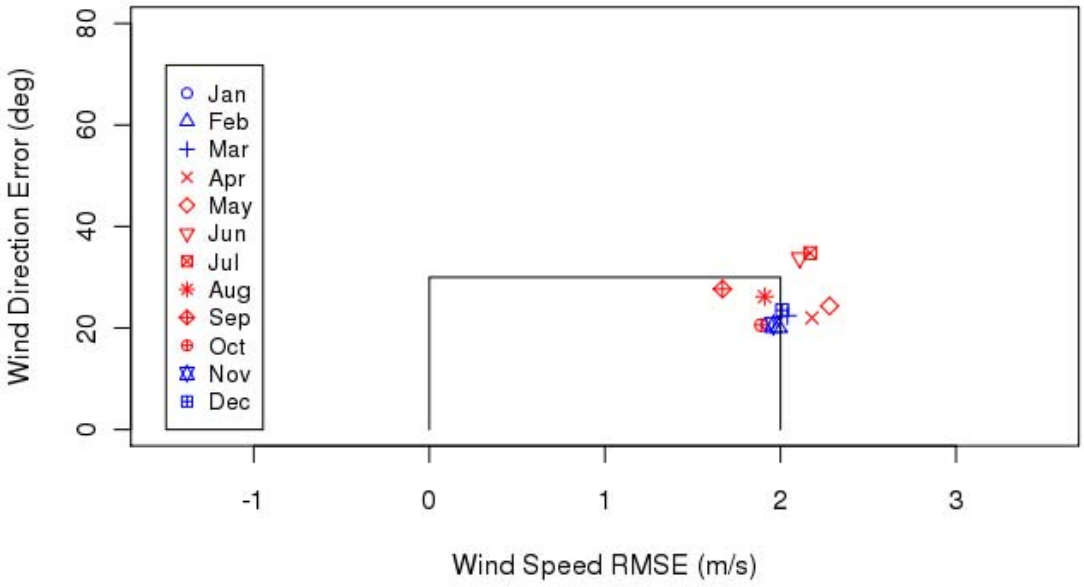
CO-KAKO 04km Wind Speed Performance Comparison



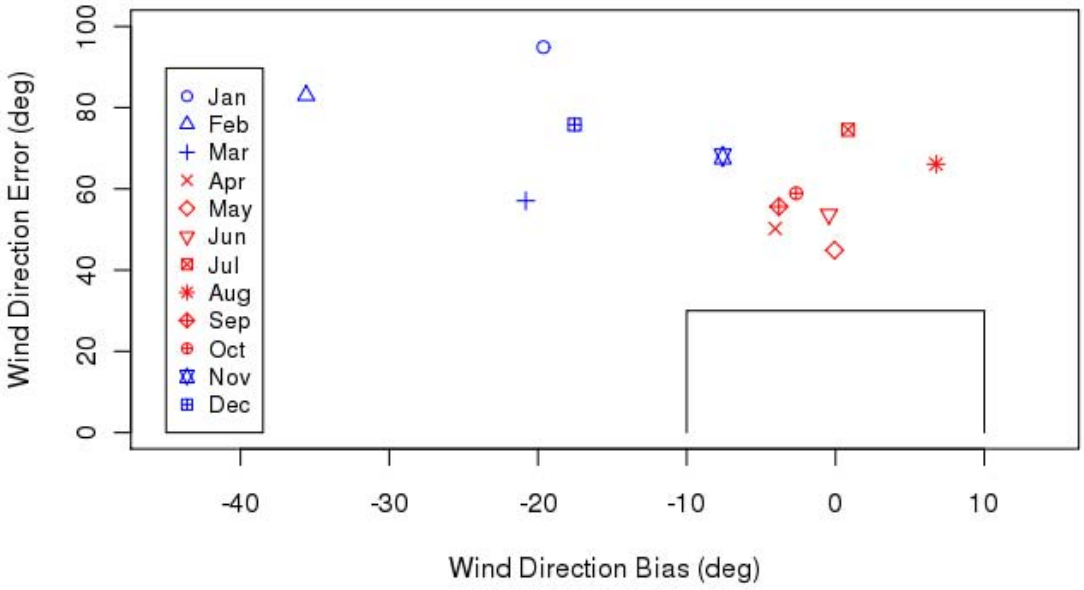
CO-KAKO 04km Temperature Performance Comparison



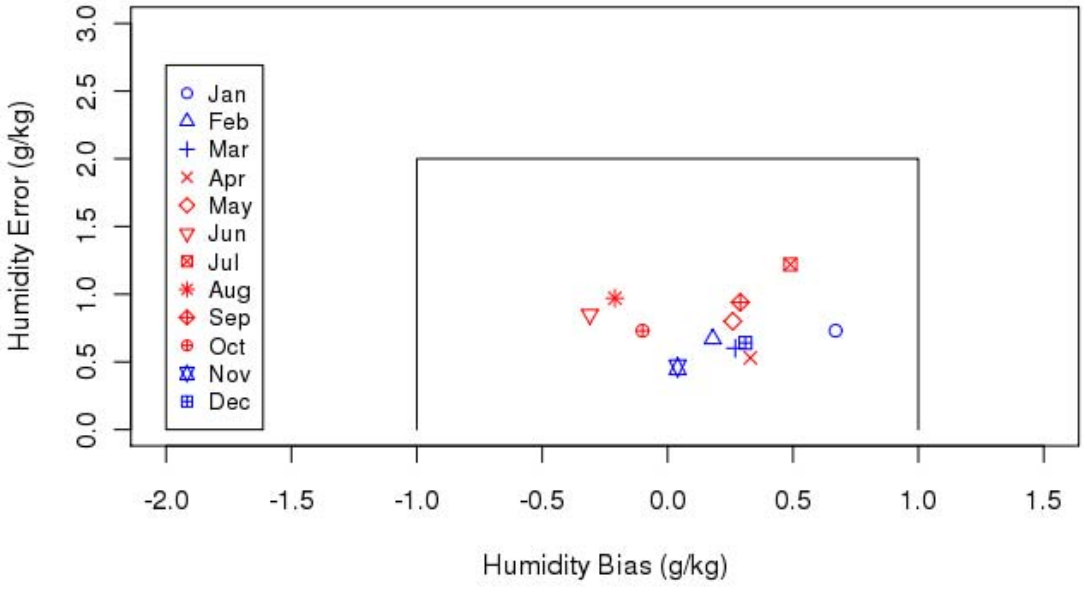
CO-KAKO 04km Wind Performance Comparison



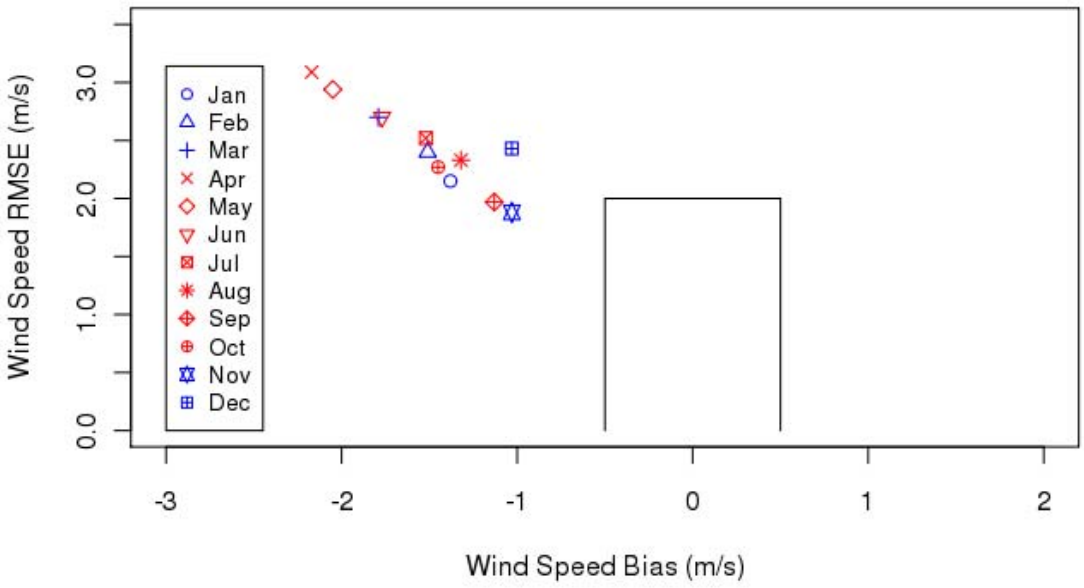
CO-KALS 04km Wind Direction Performance Comparison



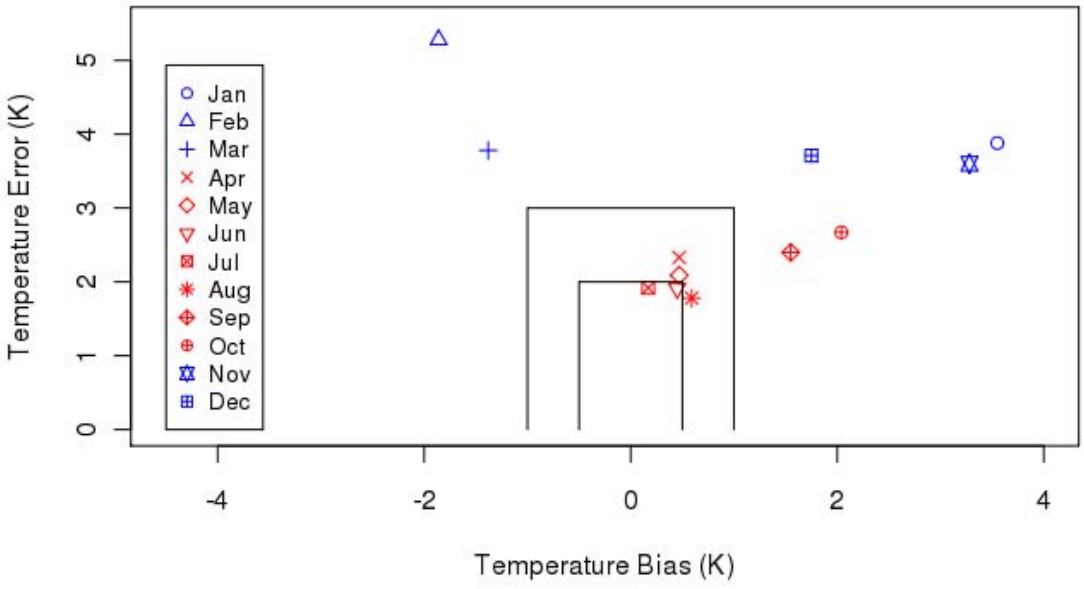
CO-KALS 04km Humidity Performance Comparison



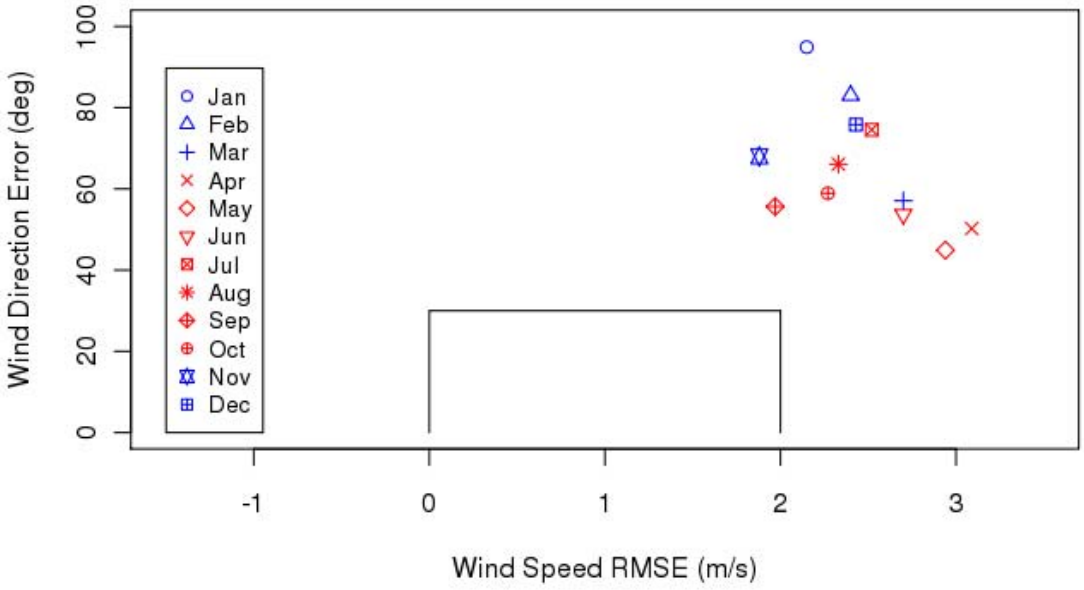
CO-KALS 04km Wind Speed Performance Comparison



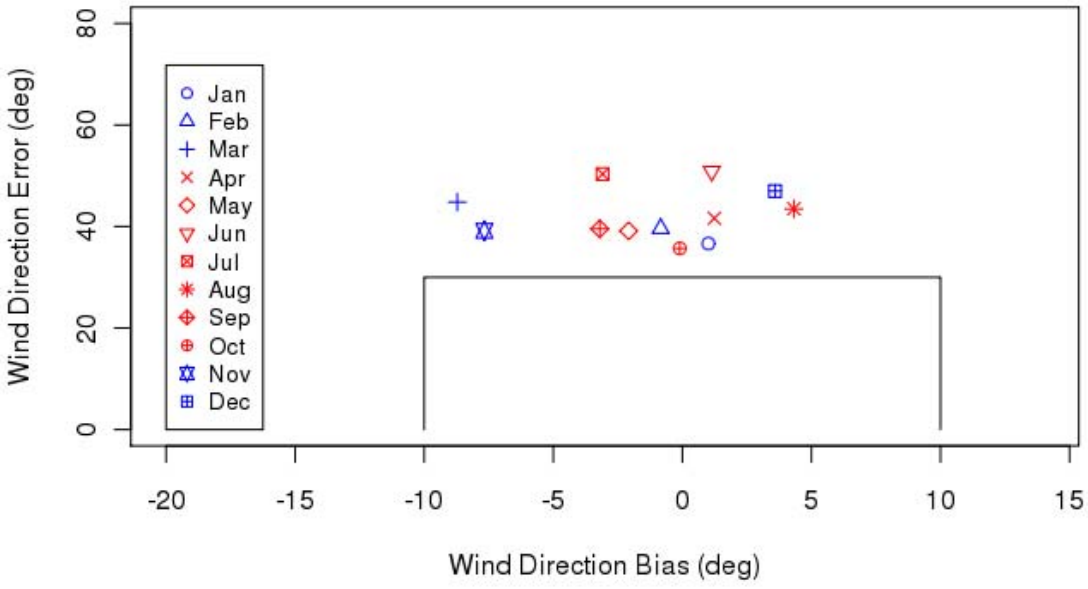
CO-KALS 04km Temperature Performance Comparison



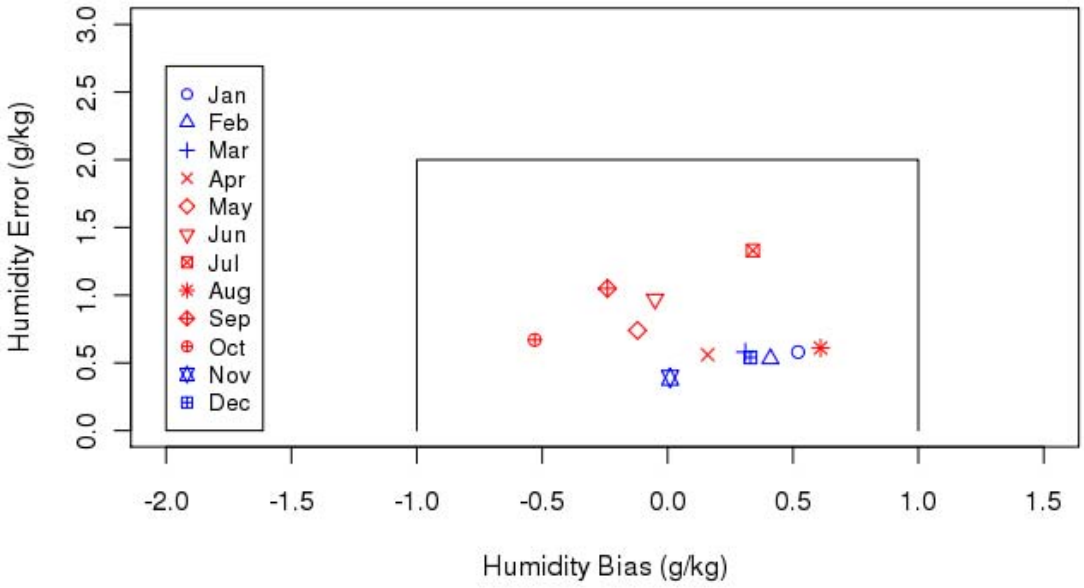
CO-KALS 04km Wind Performance Comparison



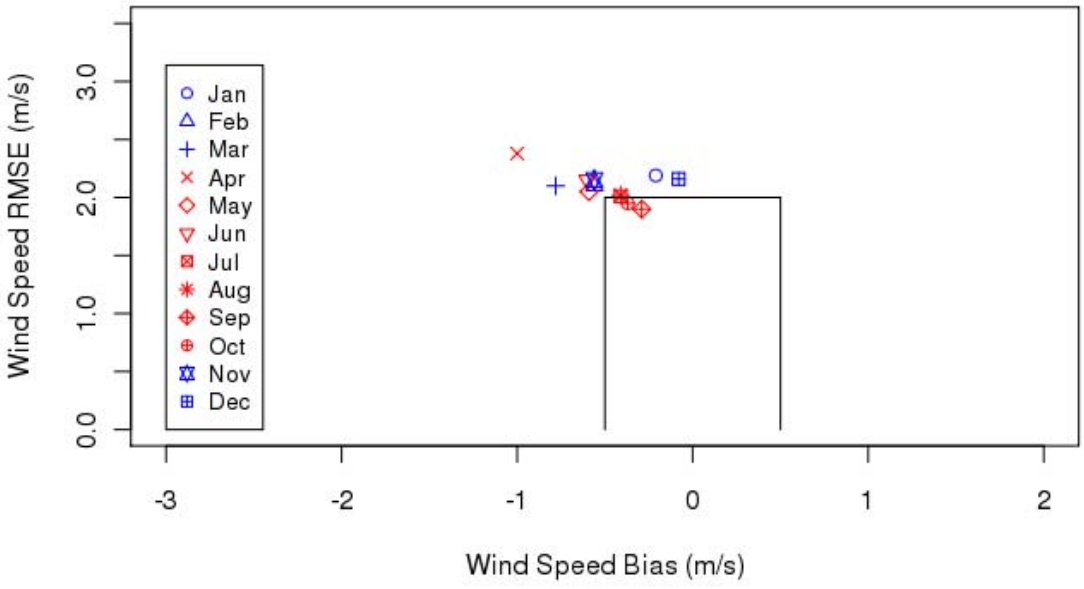
CO-KAPA 04km Wind Direction Performance Comparison



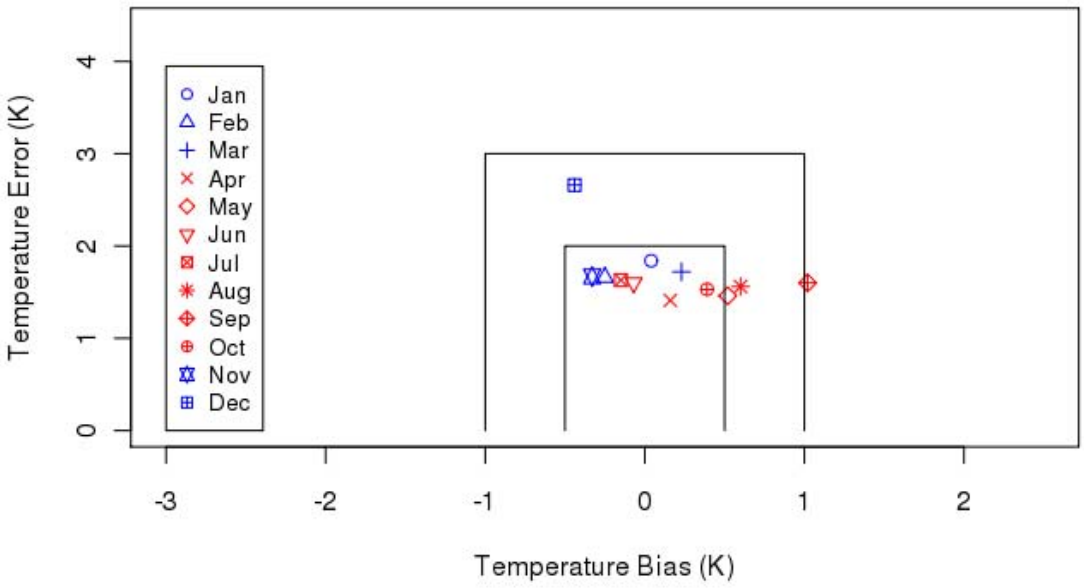
CO-KAPA 04km Humidity Performance Comparison



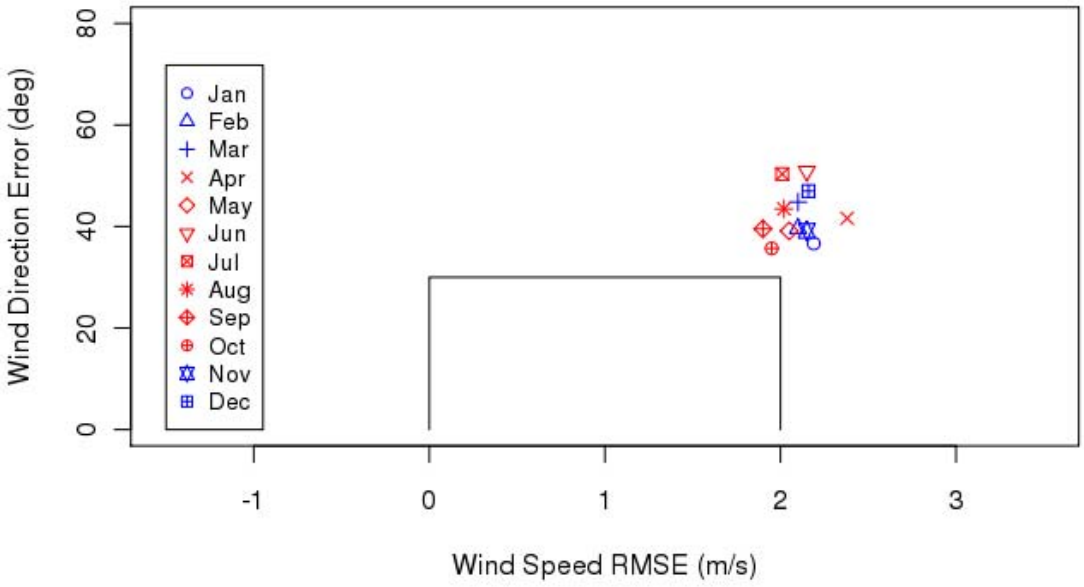
CO-KAPA 04km Wind Speed Performance Comparison



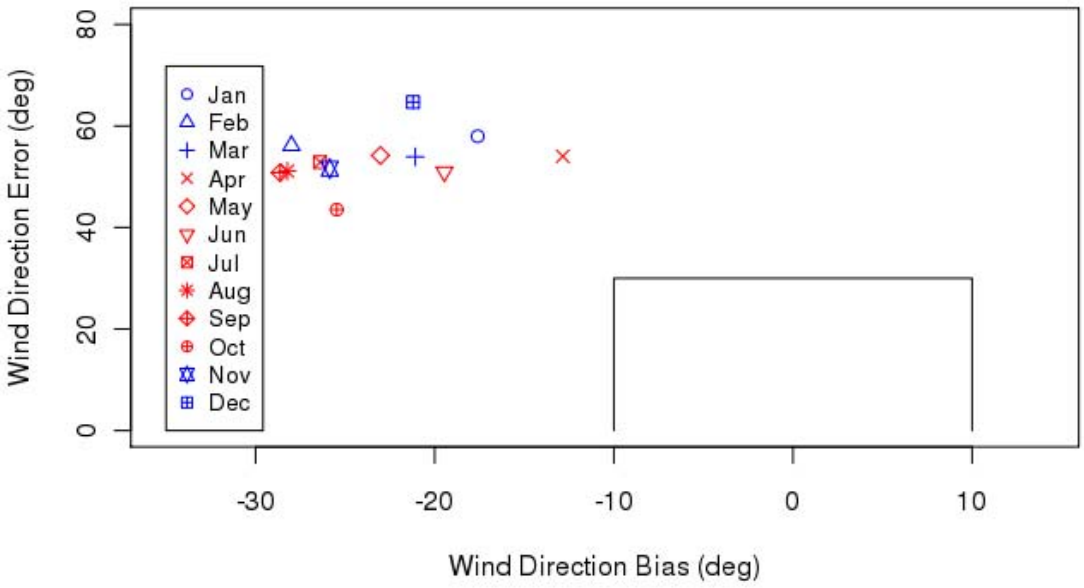
CO-KAPA 04km Temperature Performance Comparison



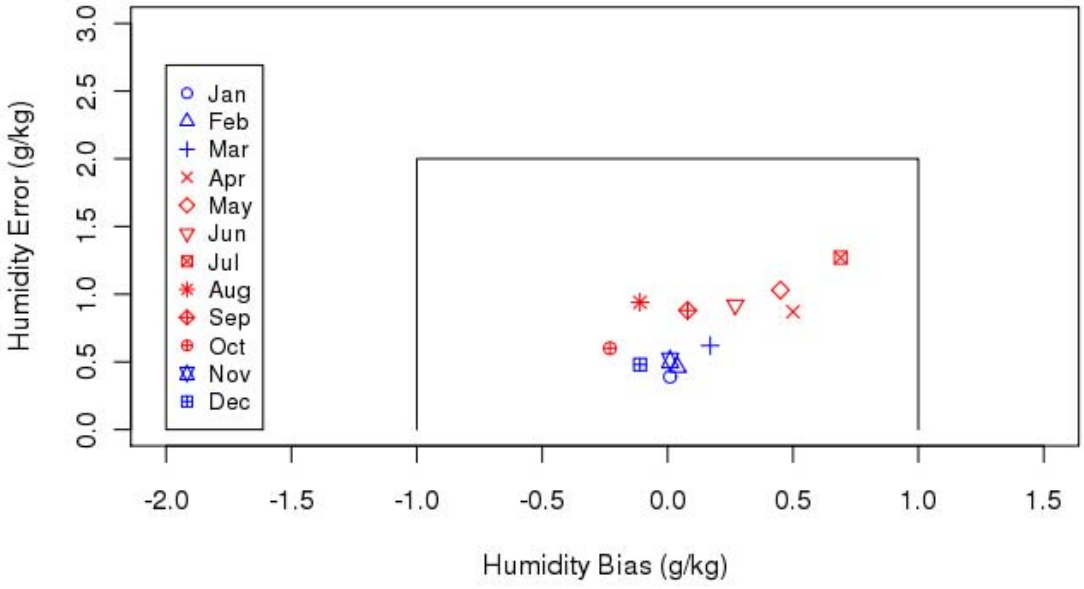
CO-KAPA 04km Wind Performance Comparison



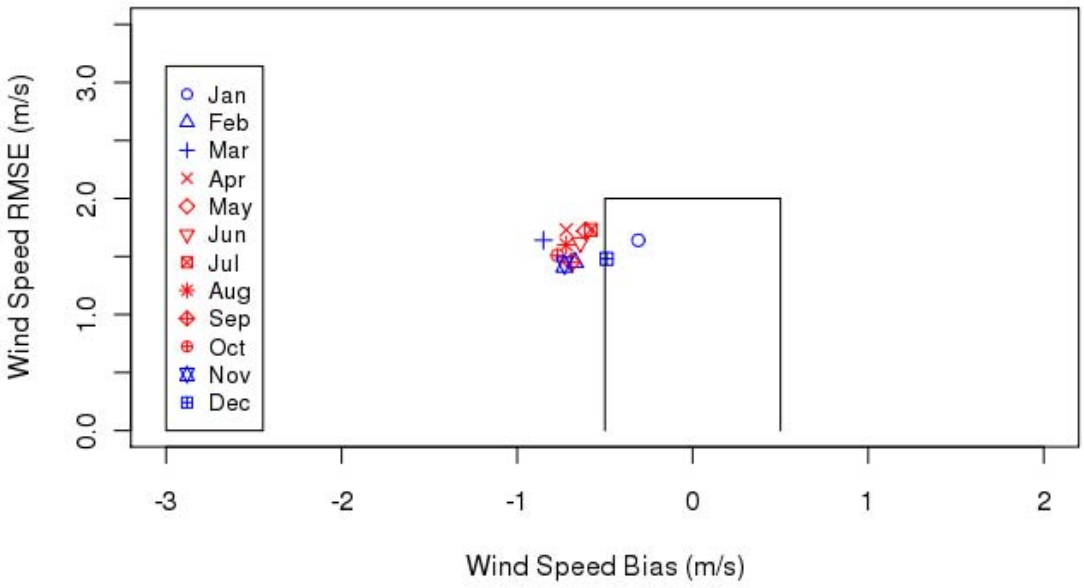
CO-KASE 04km Wind Direction Performance Comparison



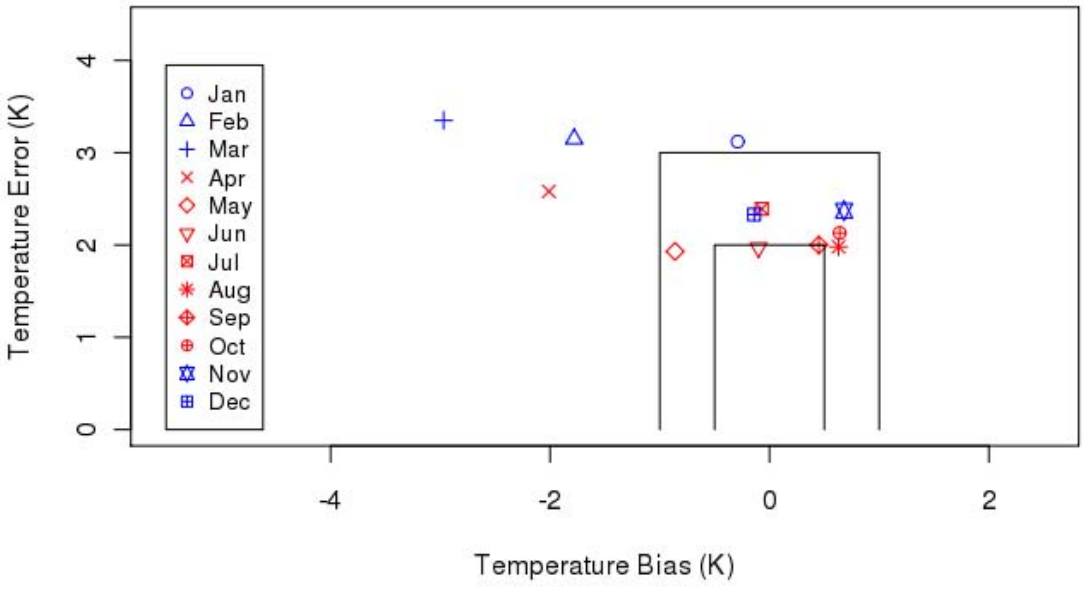
CO-KASE 04km Humidity Performance Comparison



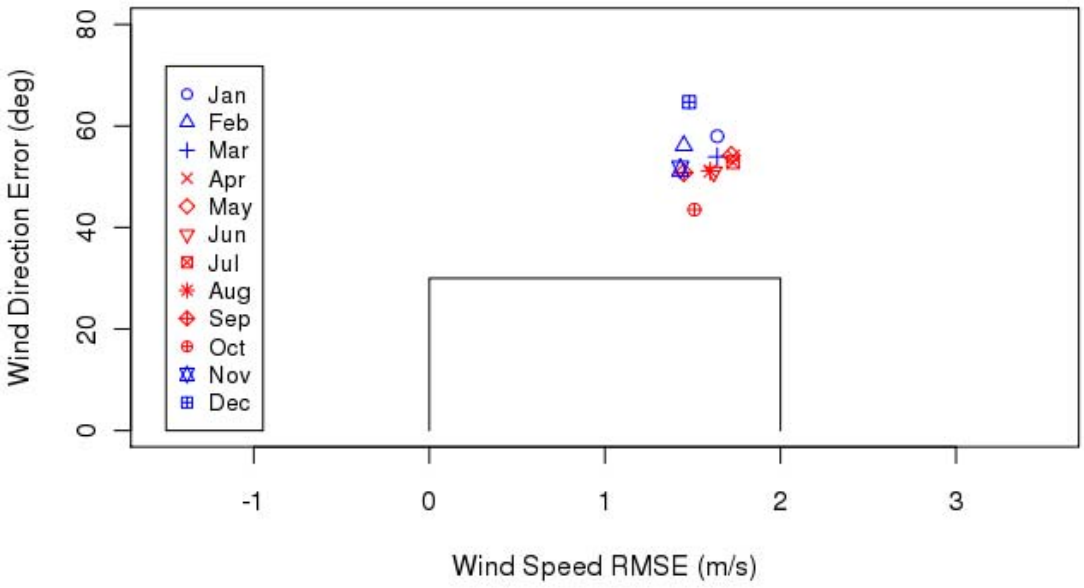
CO-KASE 04km Wind Speed Performance Comparison



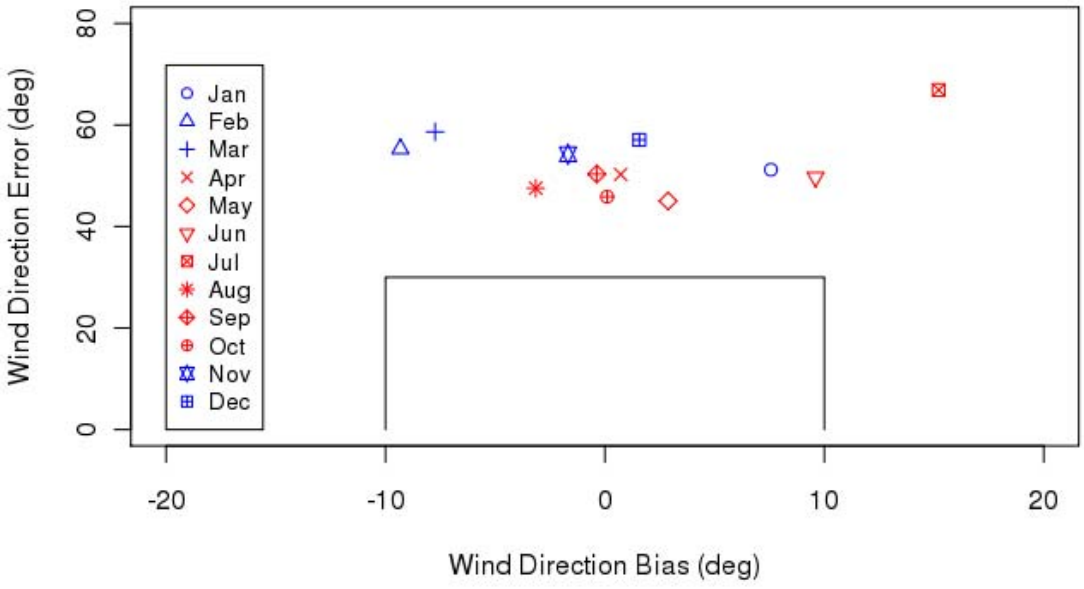
CO-KASE 04km Temperature Performance Comparison



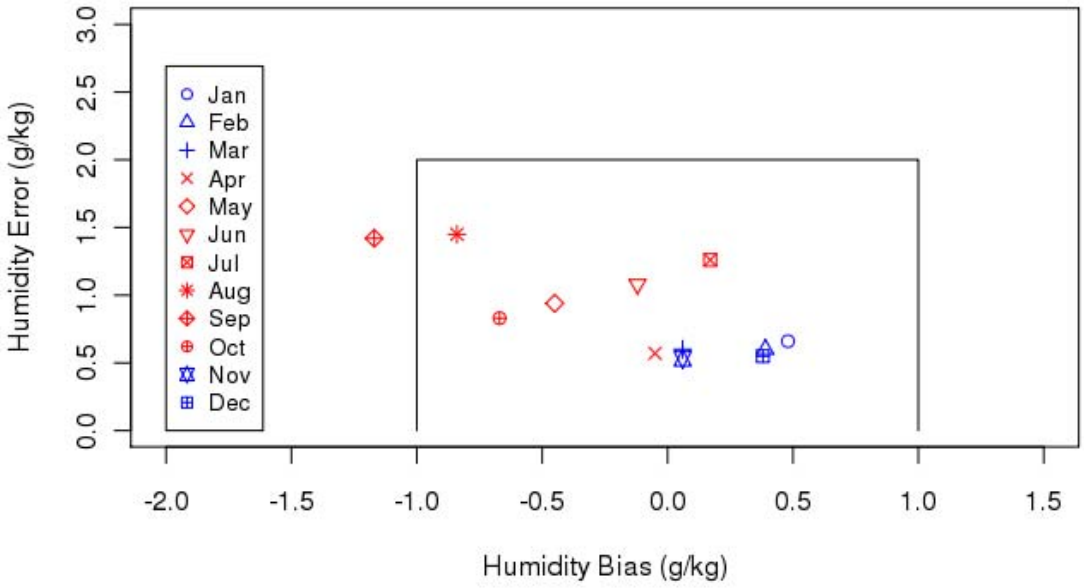
CO-KASE 04km Wind Performance Comparison



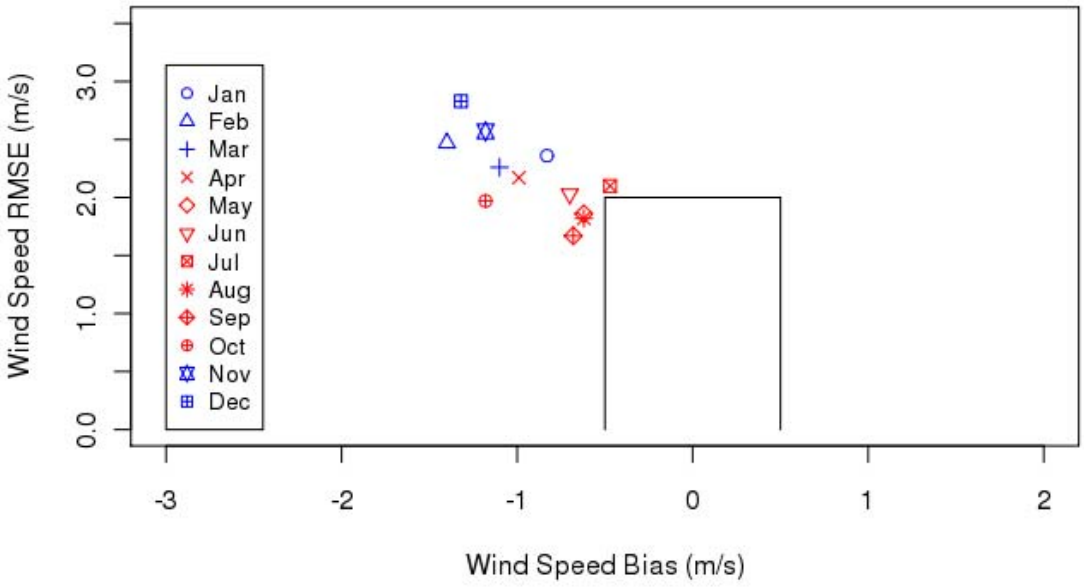
CO-KBJC 04km Wind Direction Performance Comparison



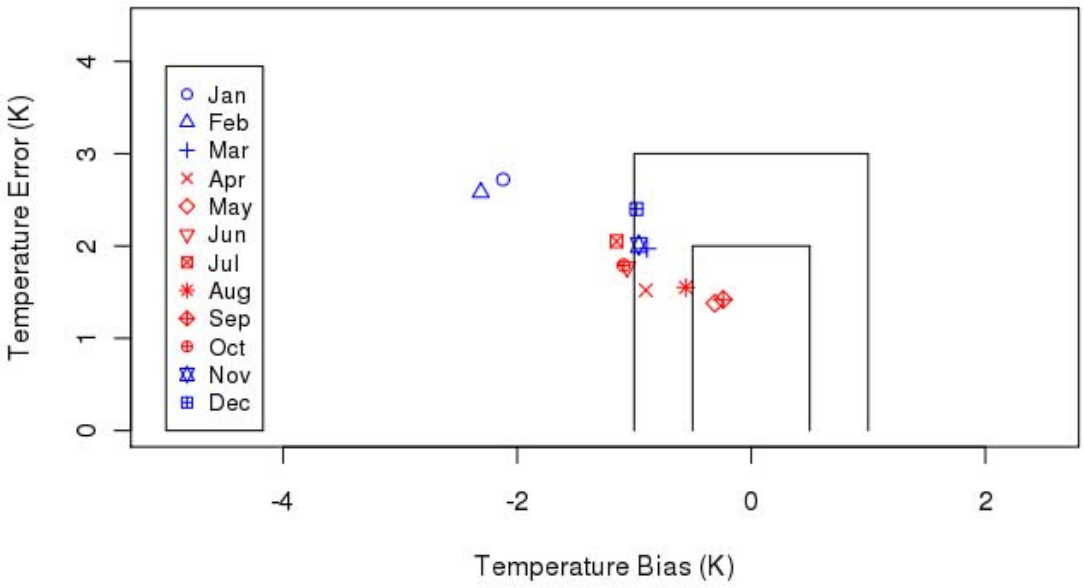
CO-KBJC 04km Humidity Performance Comparison



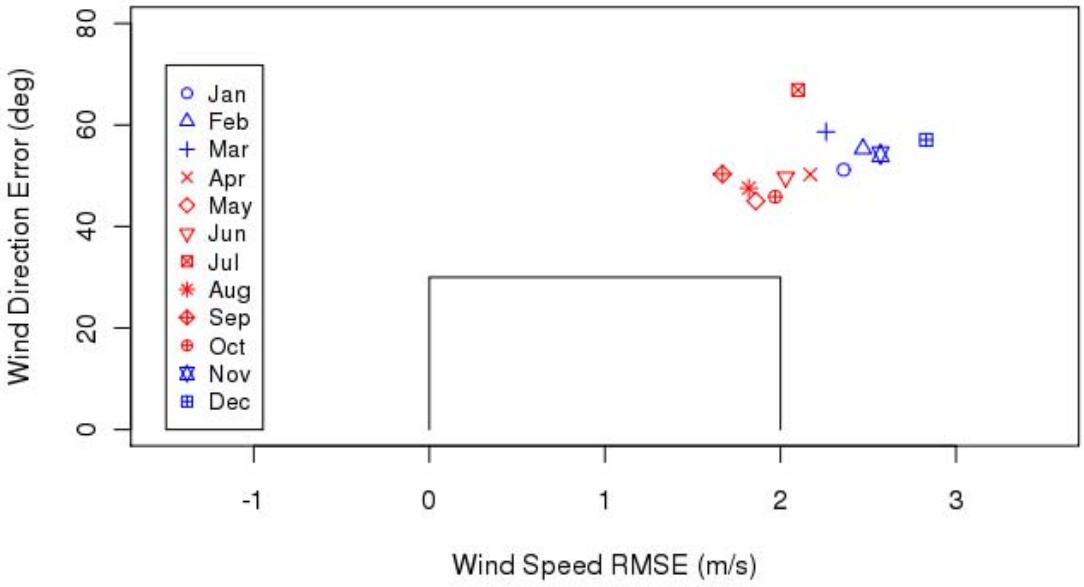
CO-KBJC 04km Wind Speed Performance Comparison



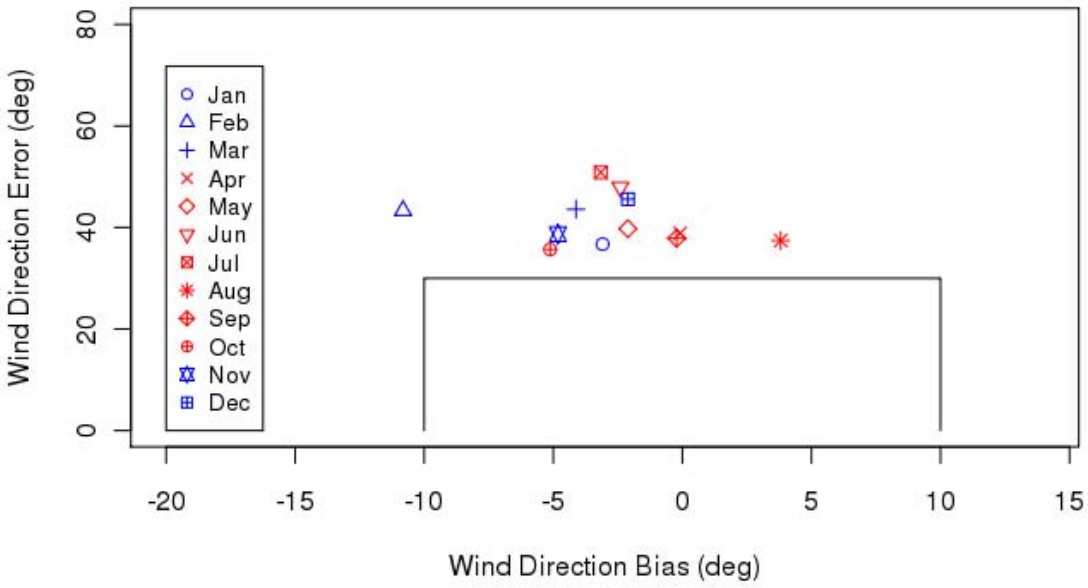
CO-KBJC 04km Temperature Performance Comparison



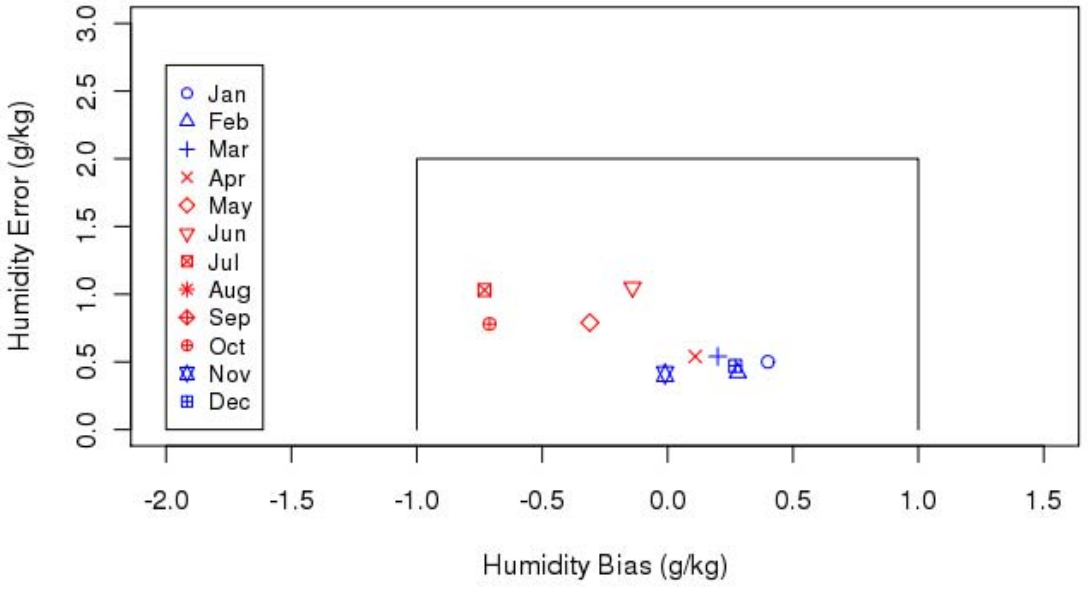
CO-KBJC 04km Wind Performance Comparison



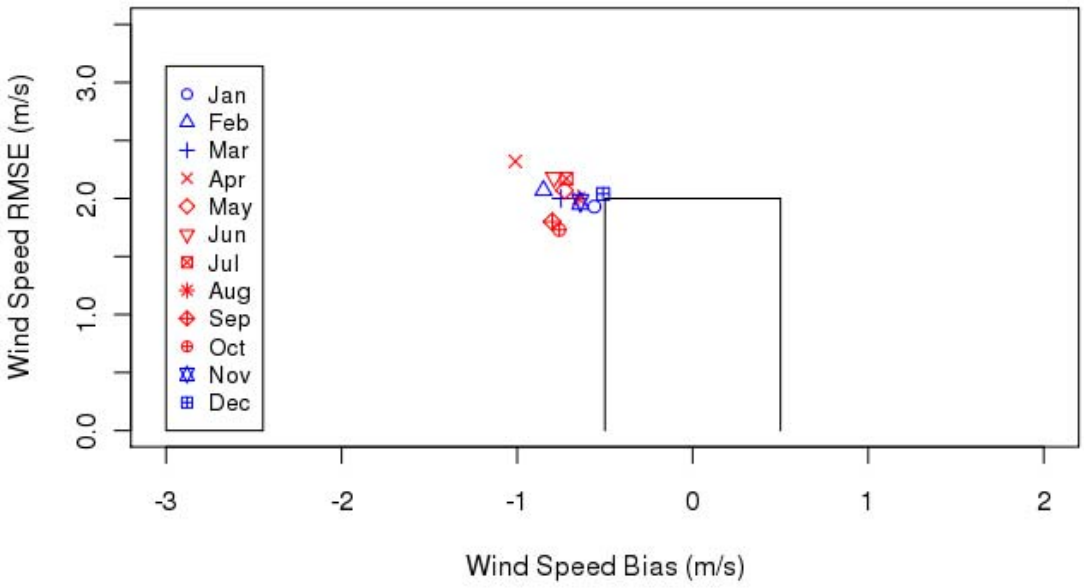
CO-KBKF 04km Wind Direction Performance Comparison



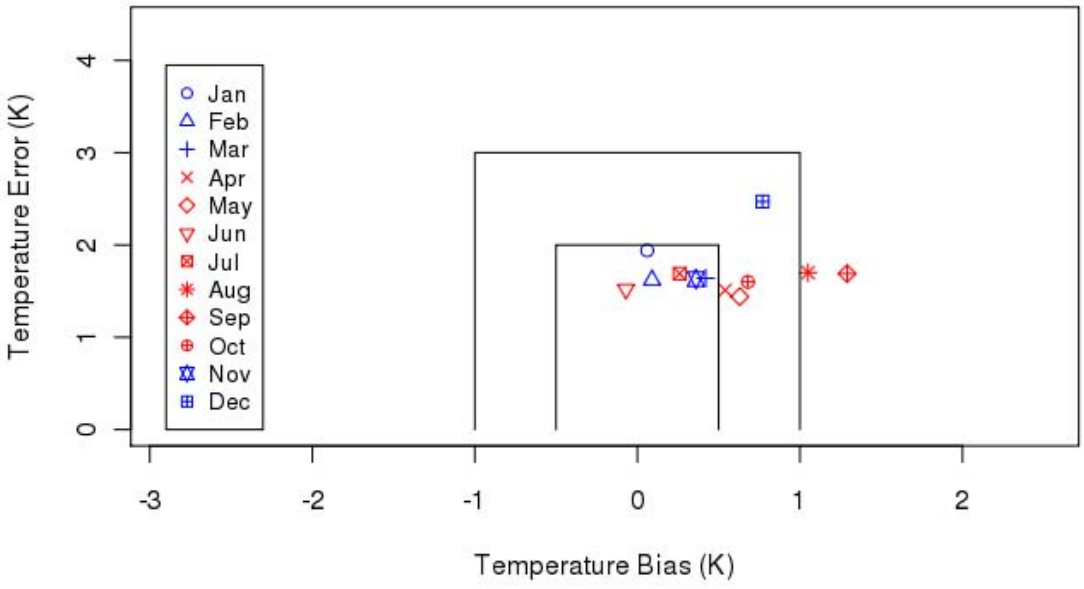
CO-KBKF 04km Humidity Performance Comparison



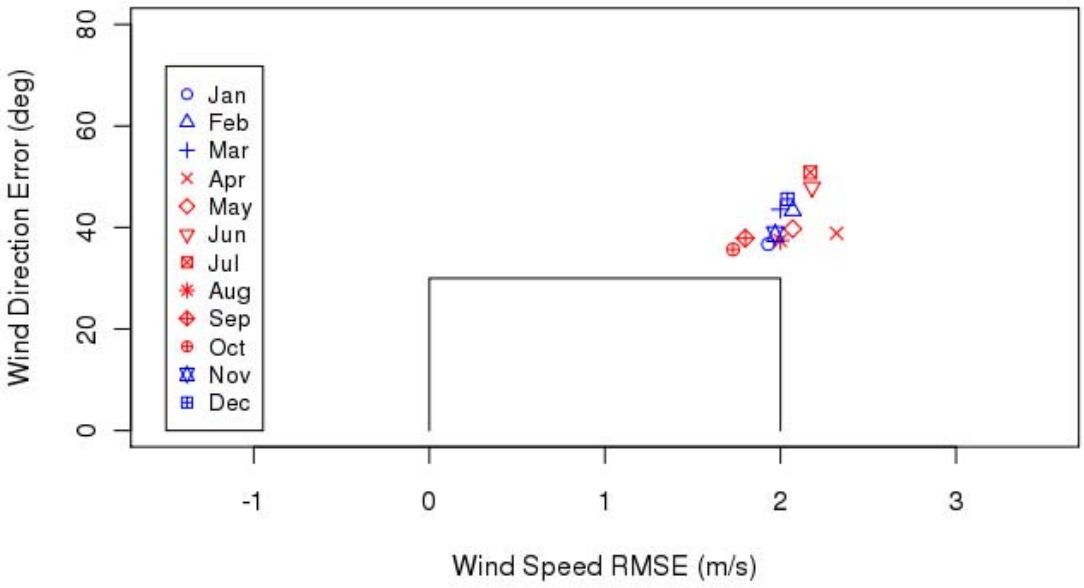
CO-KBKF 04km Wind Speed Performance Comparison



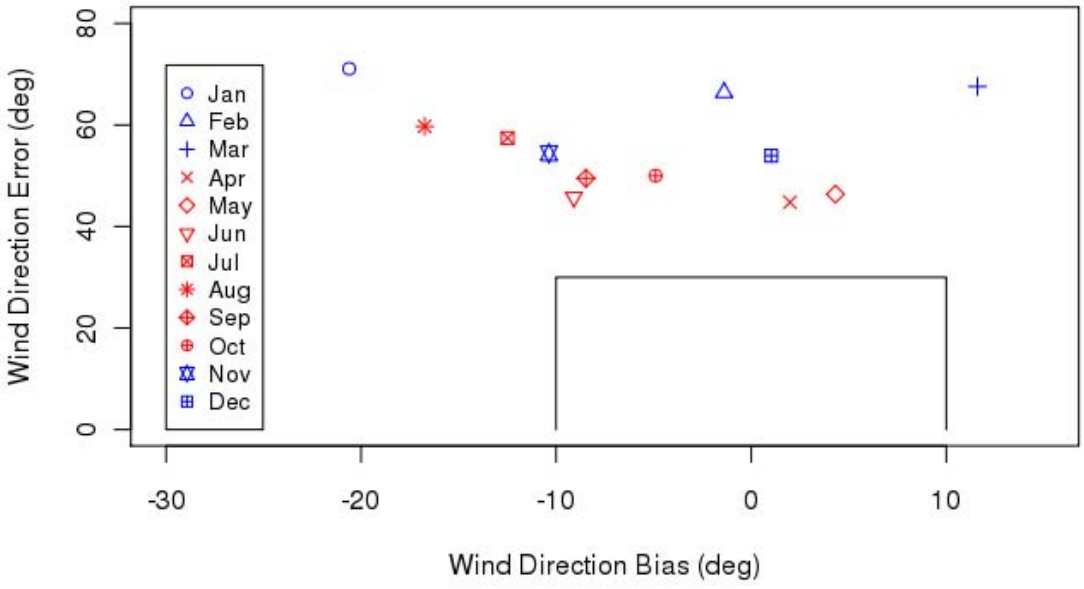
CO-KBKF 04km Temperature Performance Comparison



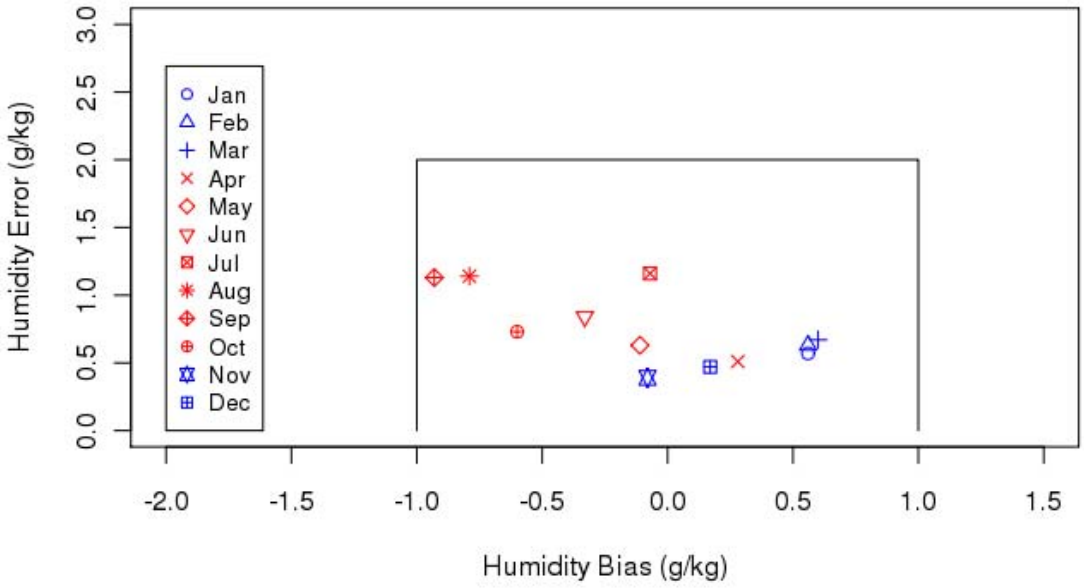
CO-KBKF 04km Wind Performance Comparison



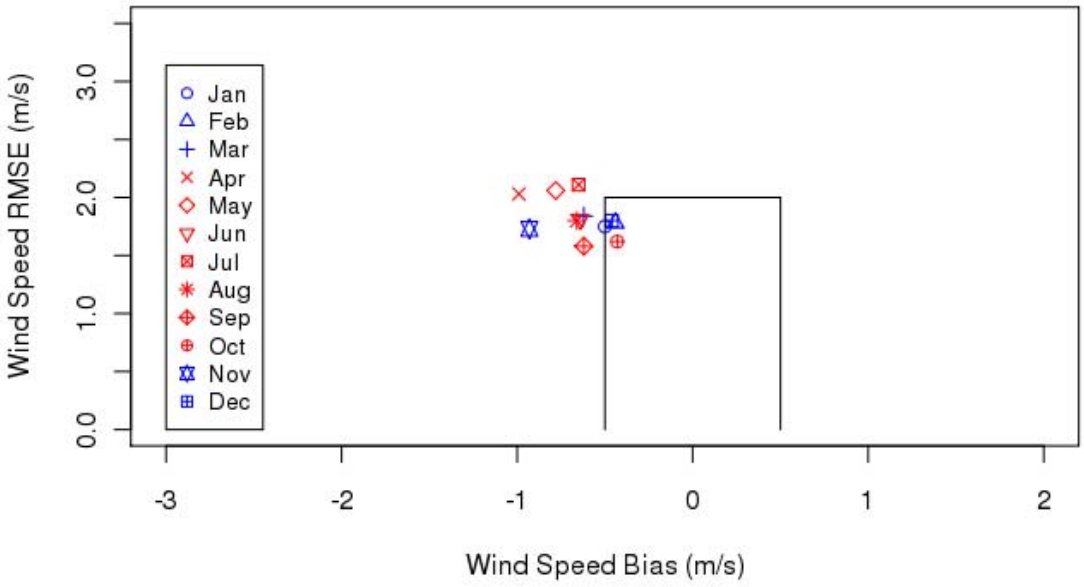
CO-KCAG 04km Wind Direction Performance Comparison



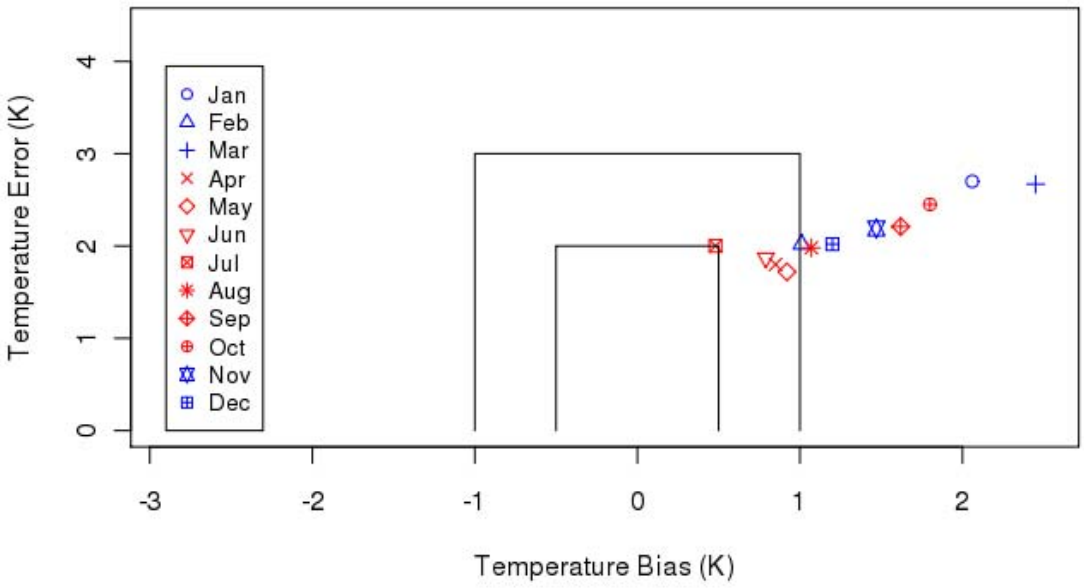
CO-KCAG 04km Humidity Performance Comparison



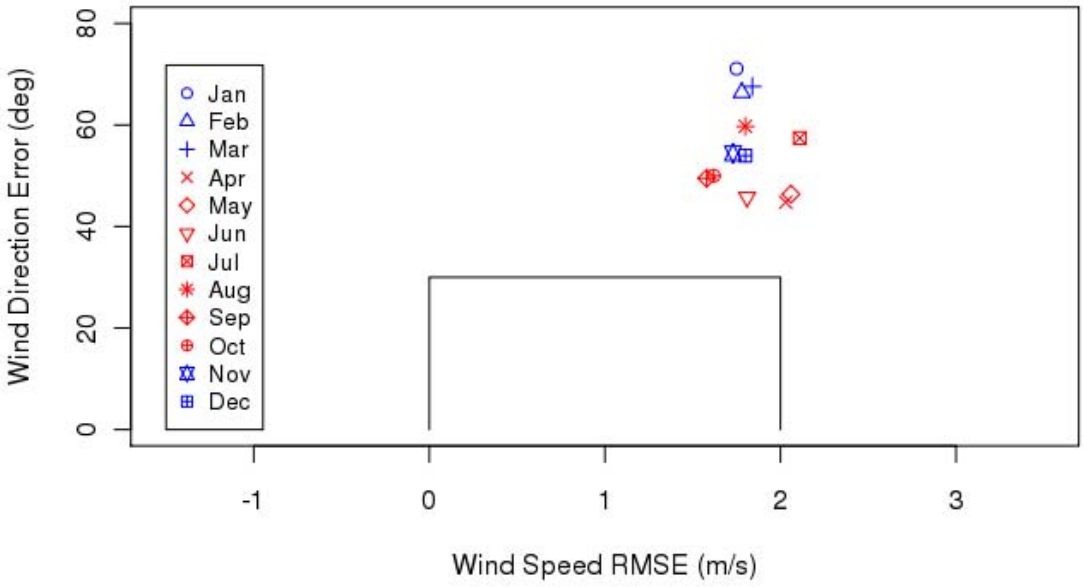
CO-KCAG 04km Wind Speed Performance Comparison



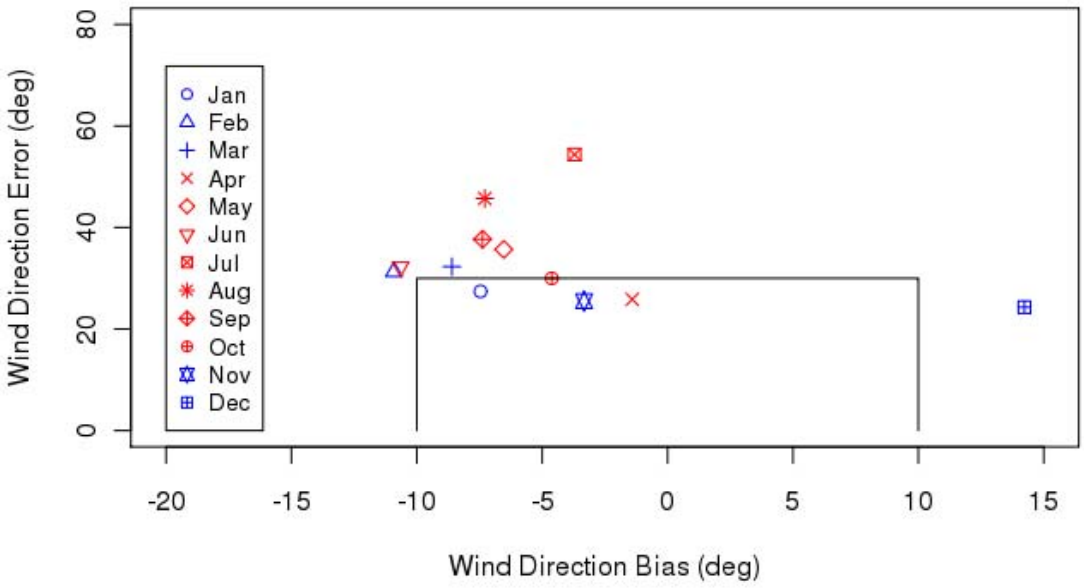
CO-KCAG 04km Temperature Performance Comparison



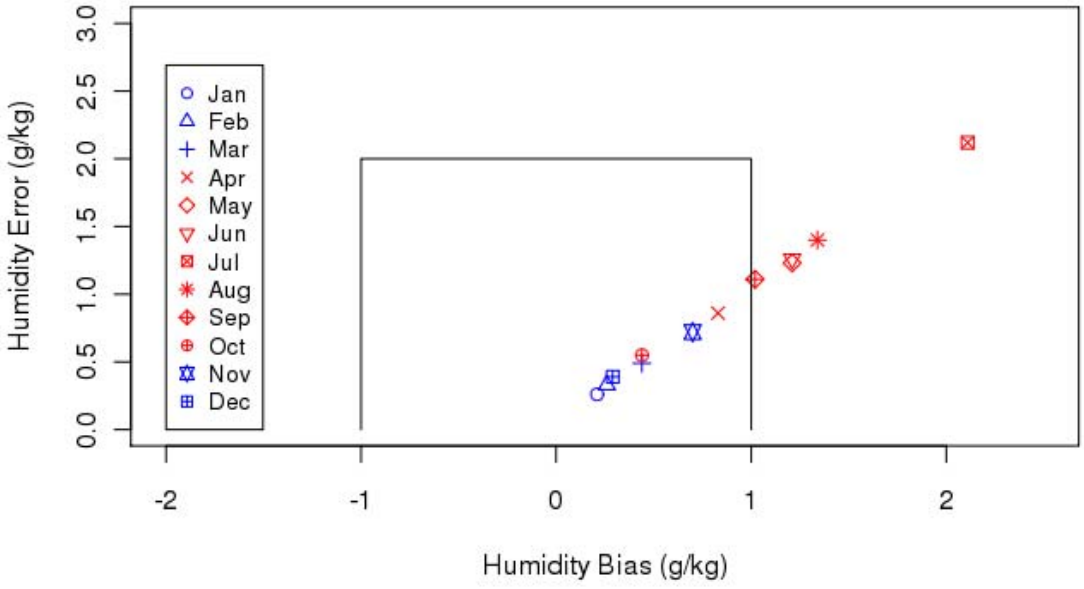
CO-KCAG 04km Wind Performance Comparison



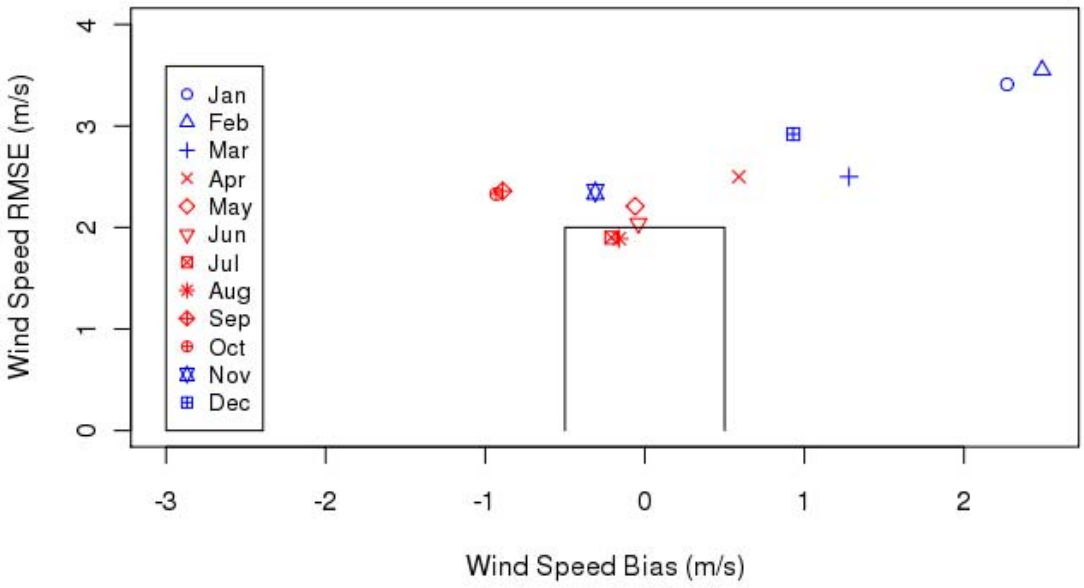
CO-KCCU 04km Wind Direction Performance Comparison



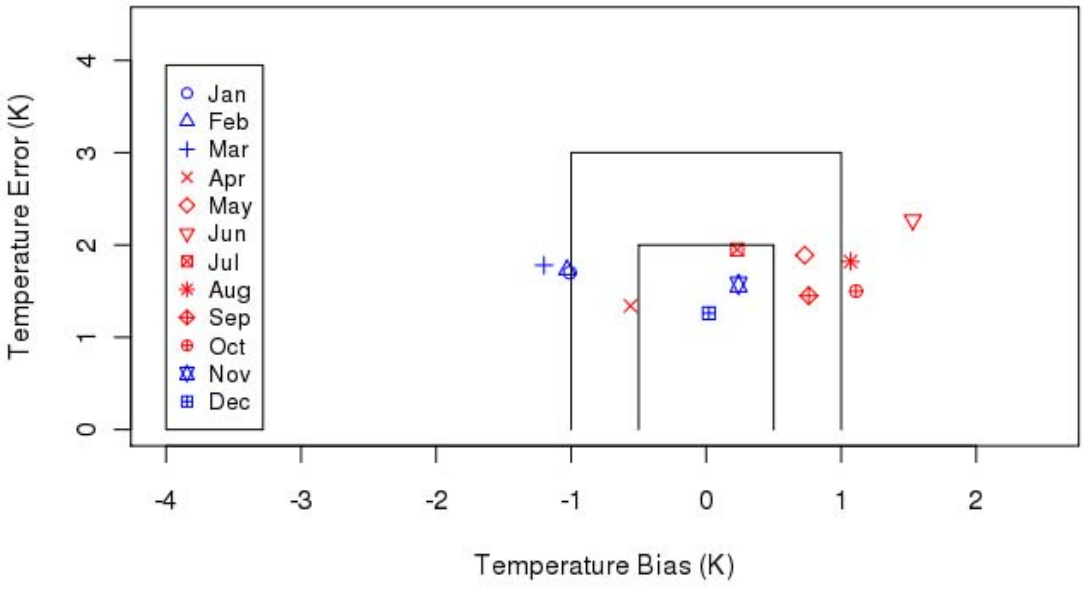
CO-KCCU 04km Humidity Performance Comparison



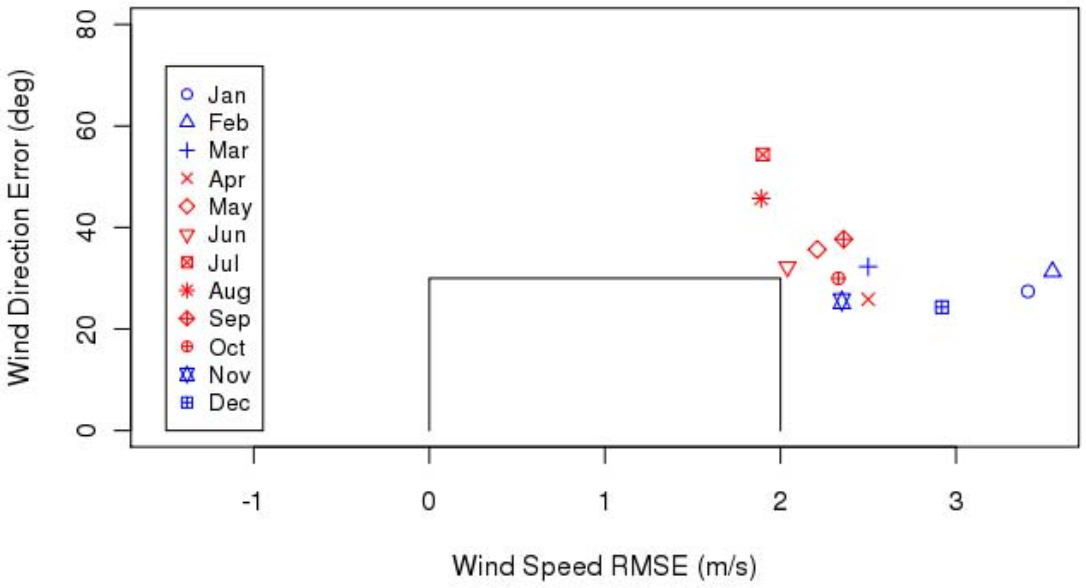
CO-KCCU 04km Wind Speed Performance Comparison



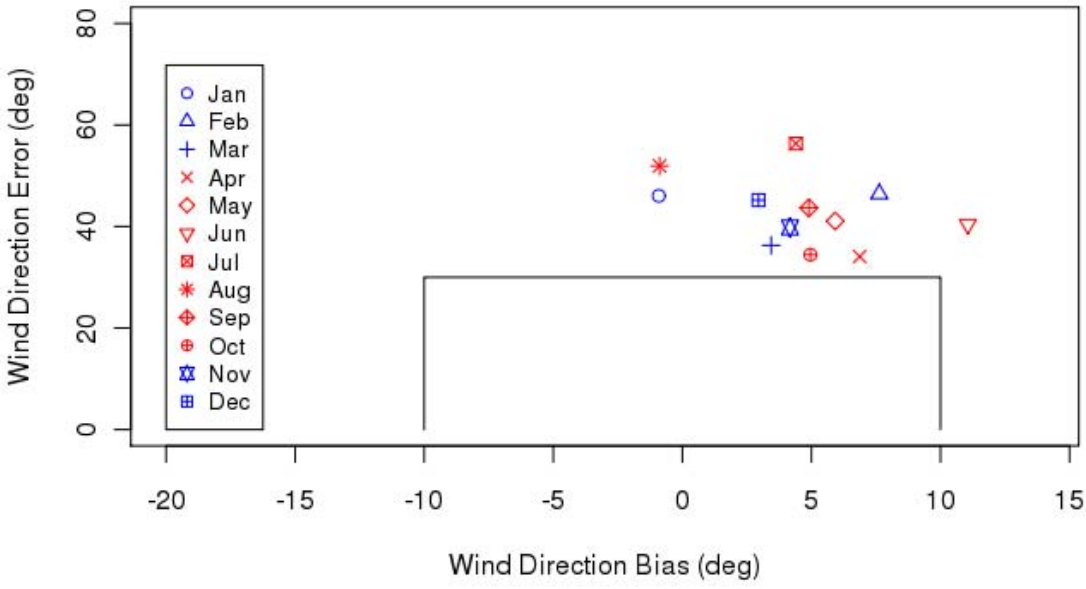
CO-KCCU 04km Temperature Performance Comparison



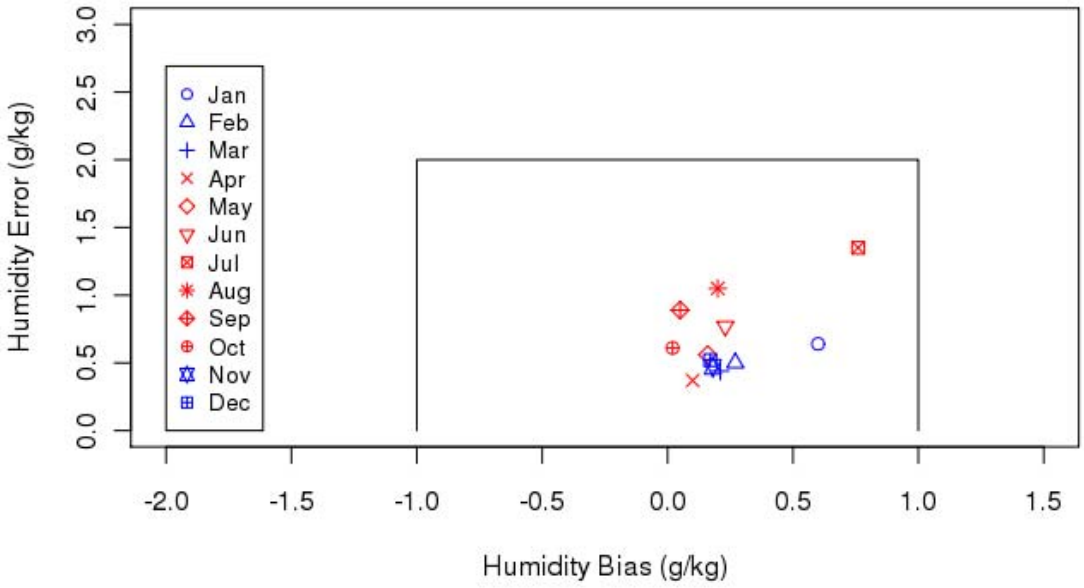
CO-KCCU 04km Wind Performance Comparison



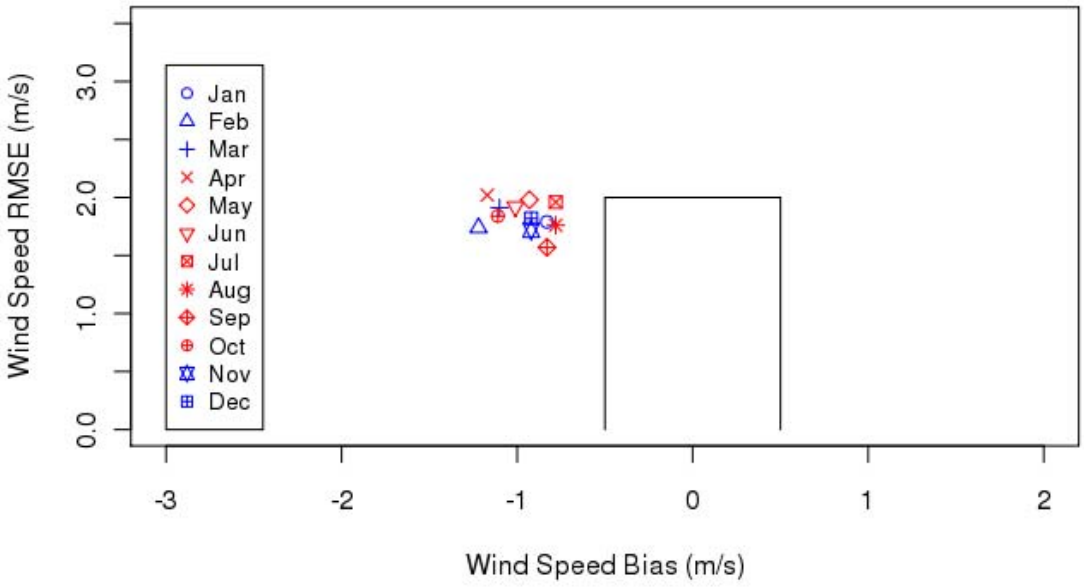
CO-KCEZ 04km Wind Direction Performance Comparison



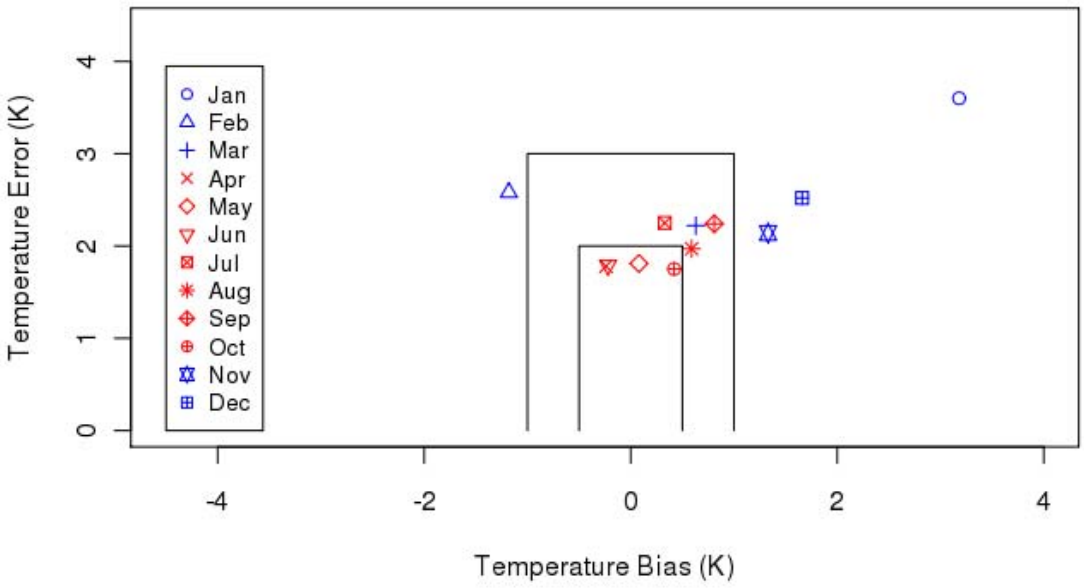
CO-KCEZ 04km Humidity Performance Comparison



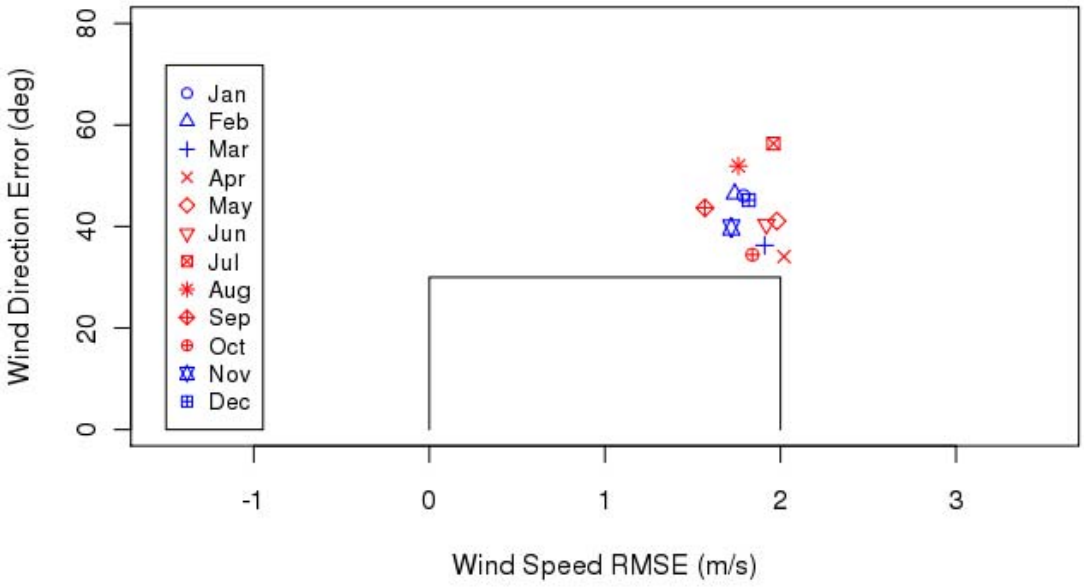
CO-KCEZ 04km Wind Speed Performance Comparison



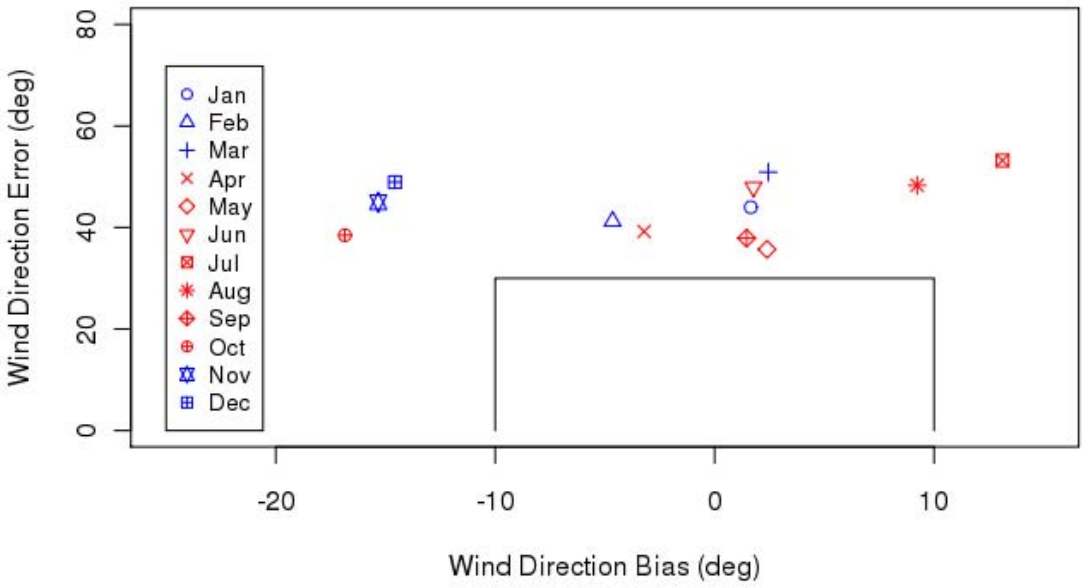
CO-KCEZ 04km Temperature Performance Comparison



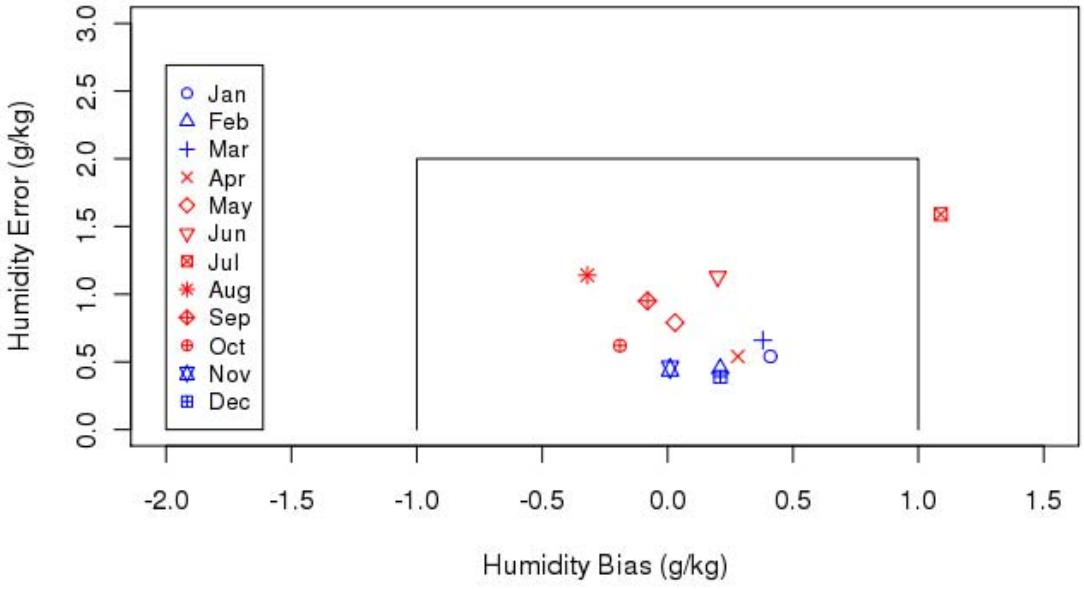
CO-KCEZ 04km Wind Performance Comparison



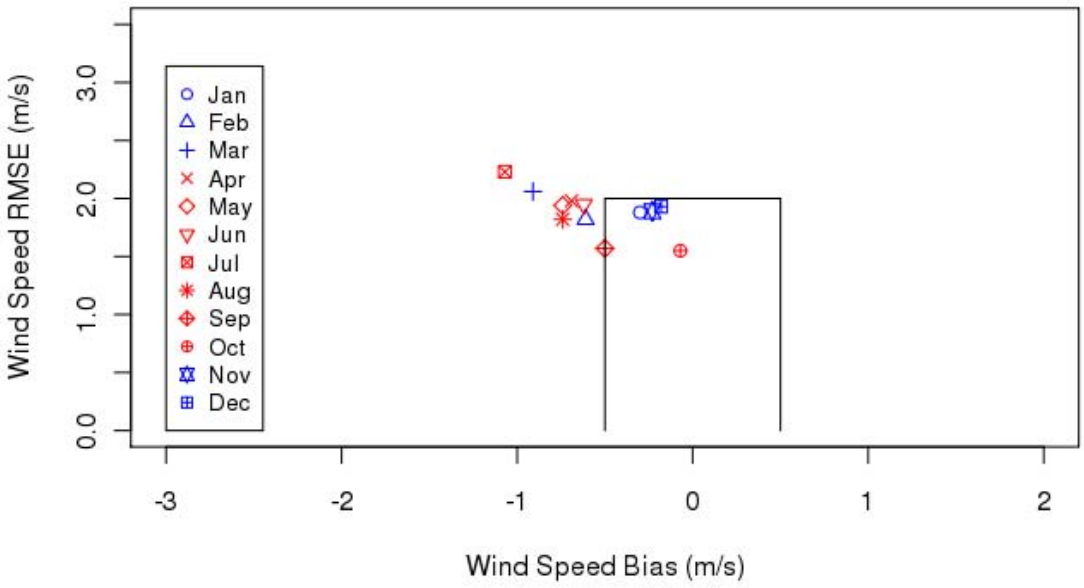
CO-KCOS 04km Wind Direction Performance Comparison



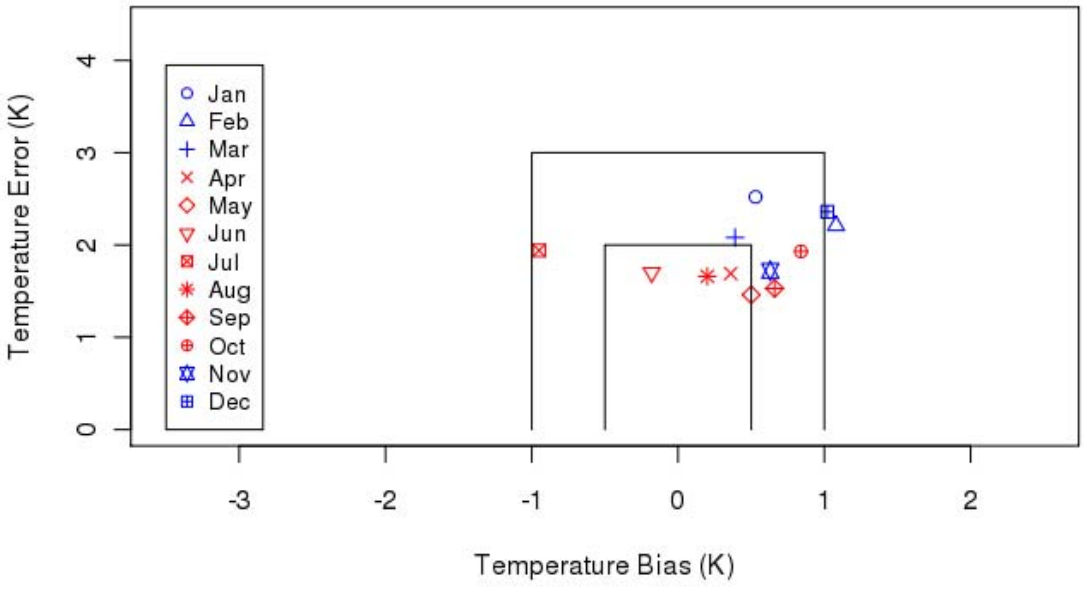
CO-KCOS 04km Humidity Performance Comparison



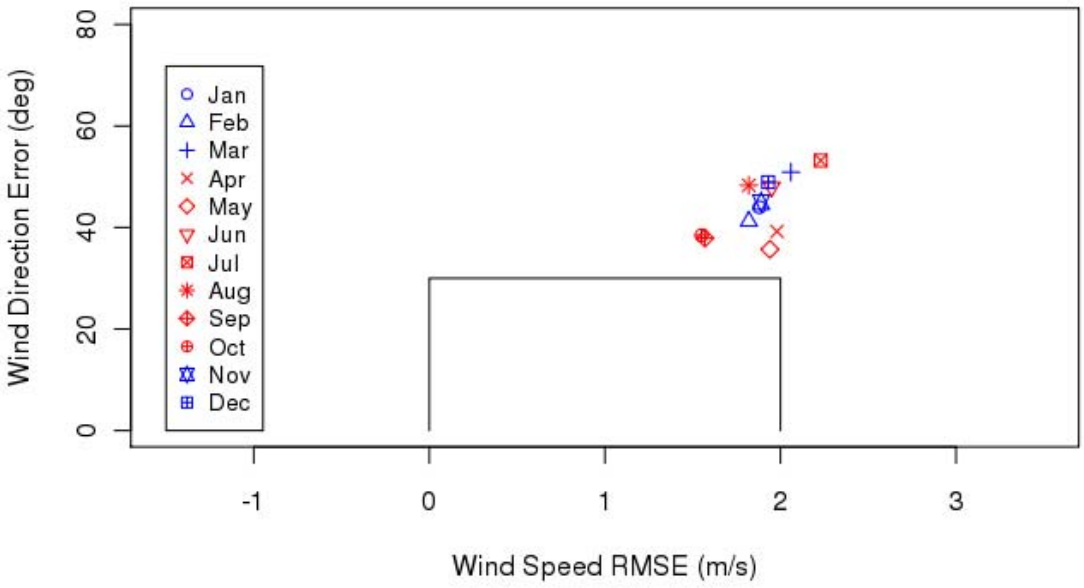
CO-KCOS 04km Wind Speed Performance Comparison



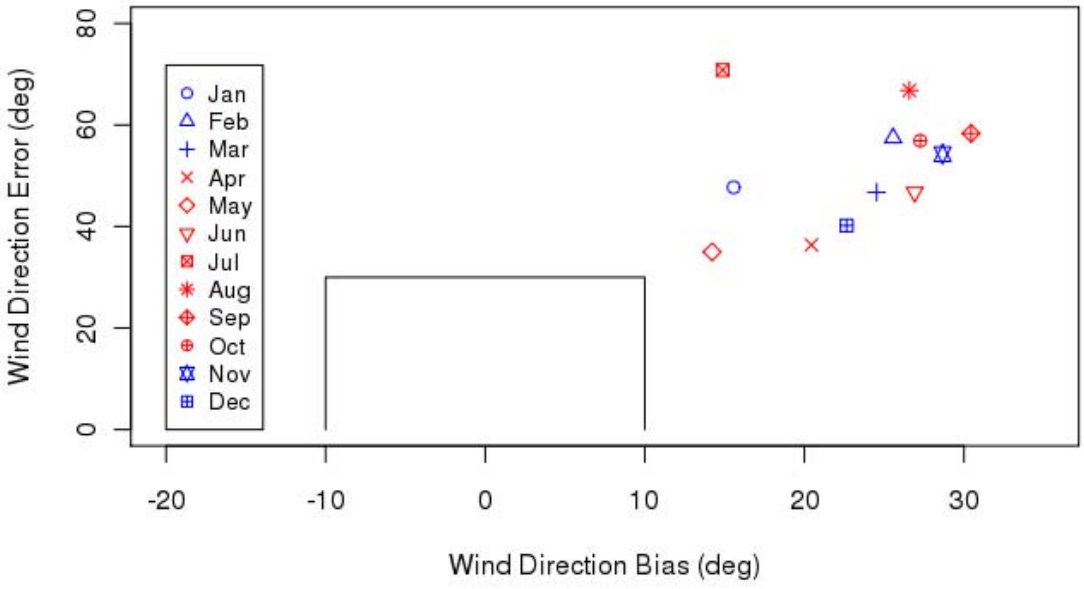
CO-KCOS 04km Temperature Performance Comparison



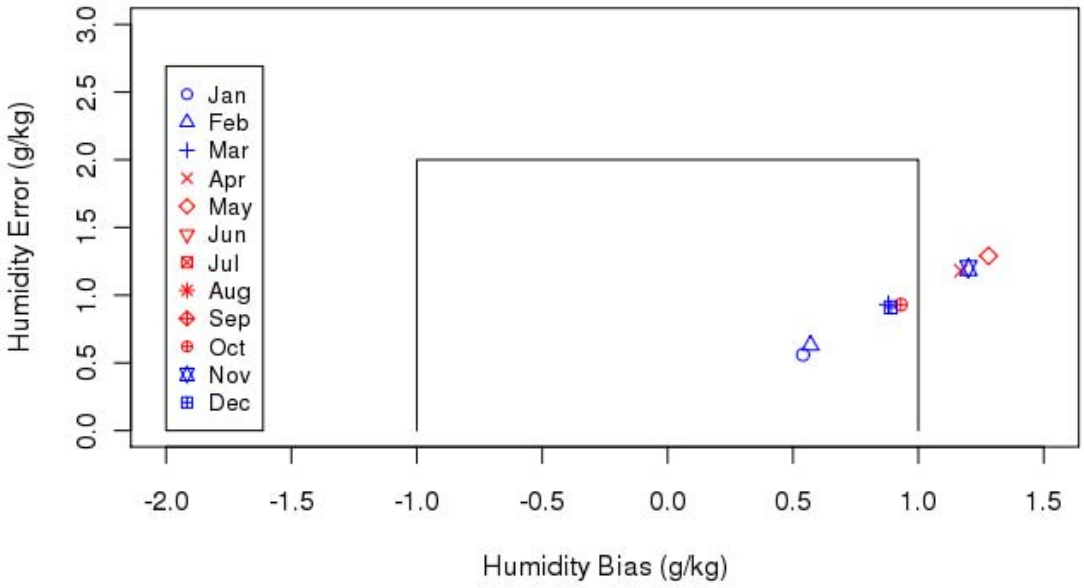
CO-KCOS 04km Wind Performance Comparison



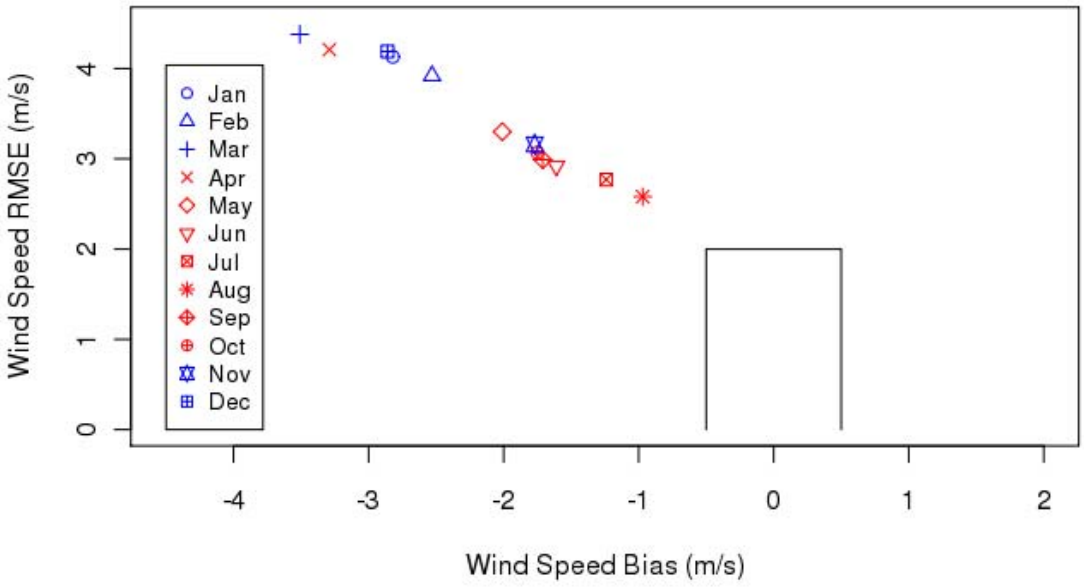
CO-KCPW 04km Wind Direction Performance Comparison



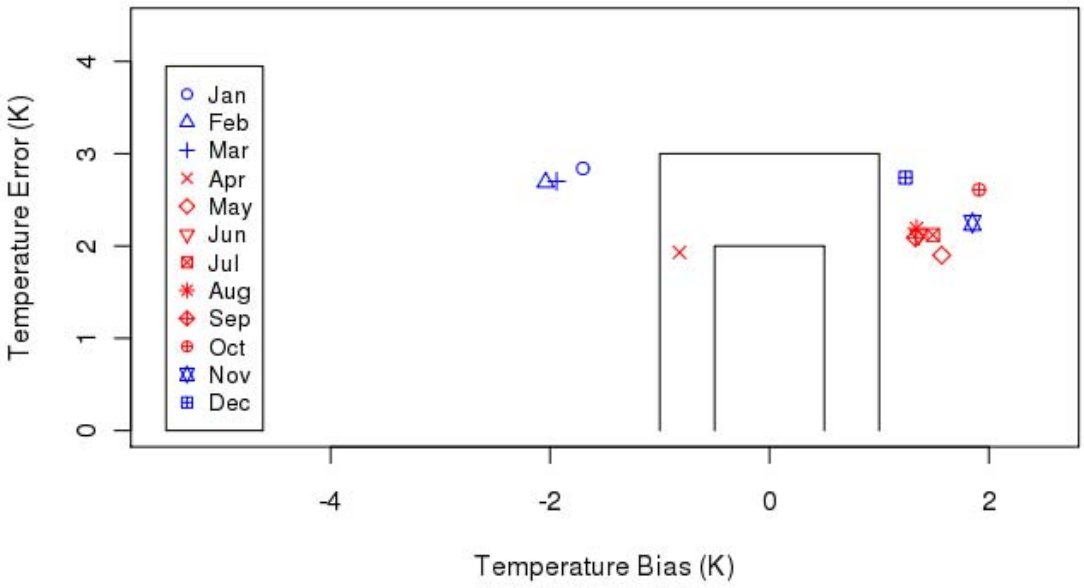
CO-KCPW 04km Humidity Performance Comparison



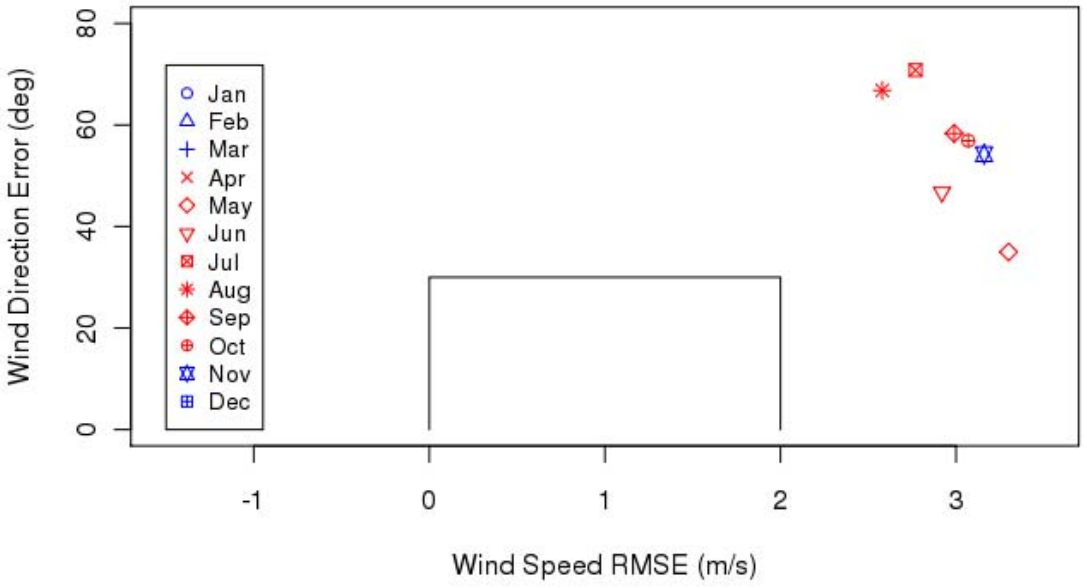
CO-KCPW 04km Wind Speed Performance Comparison

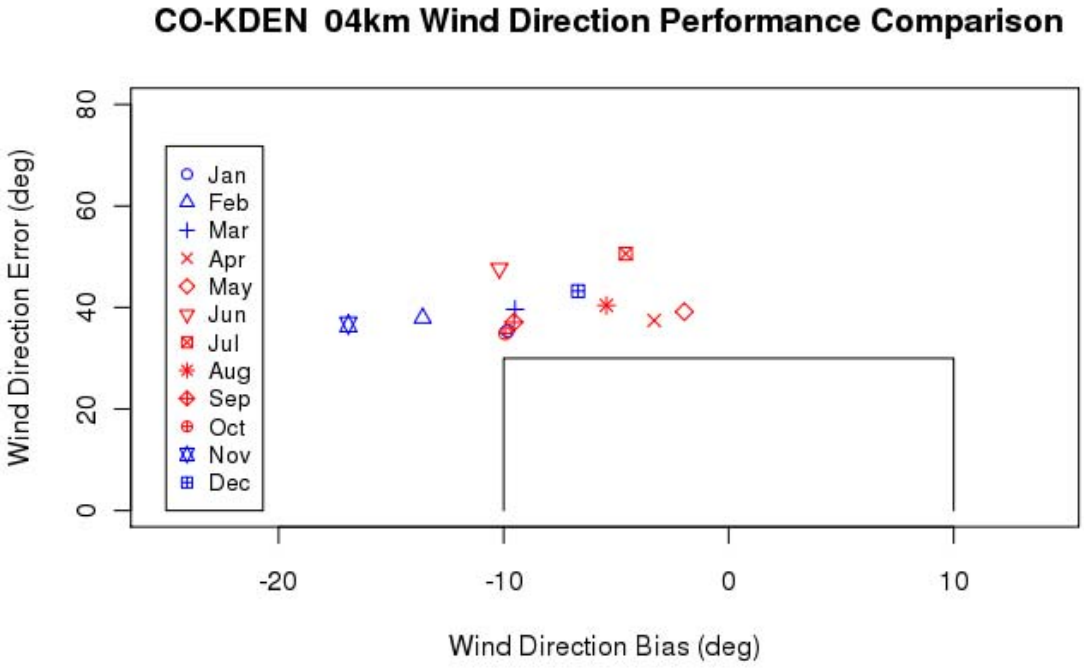


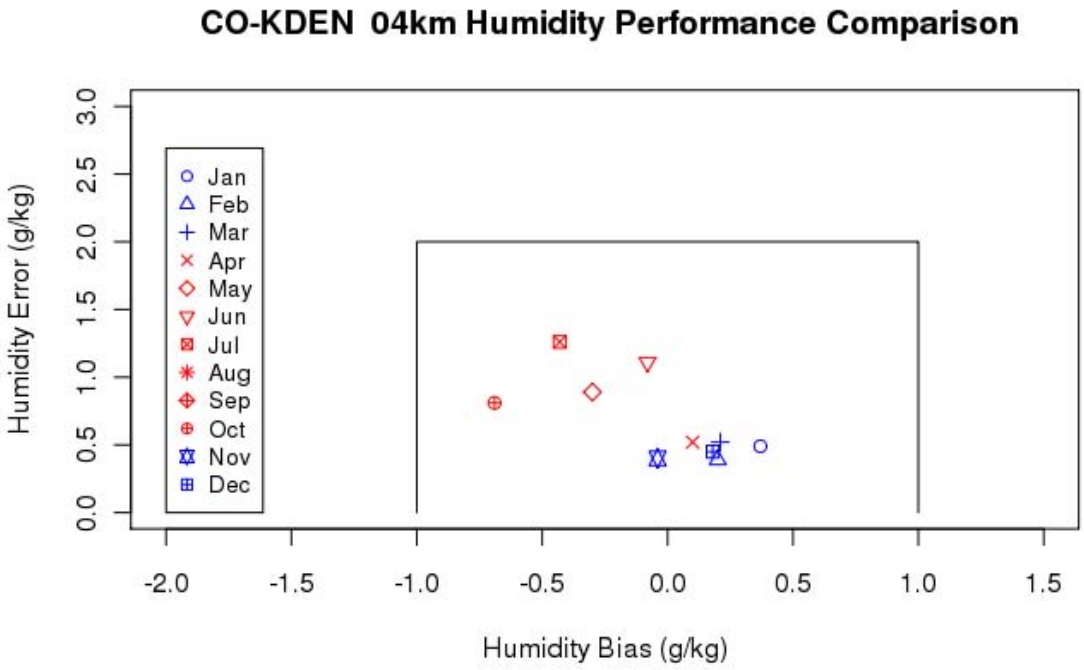
CO-KCPW 04km Temperature Performance Comparison



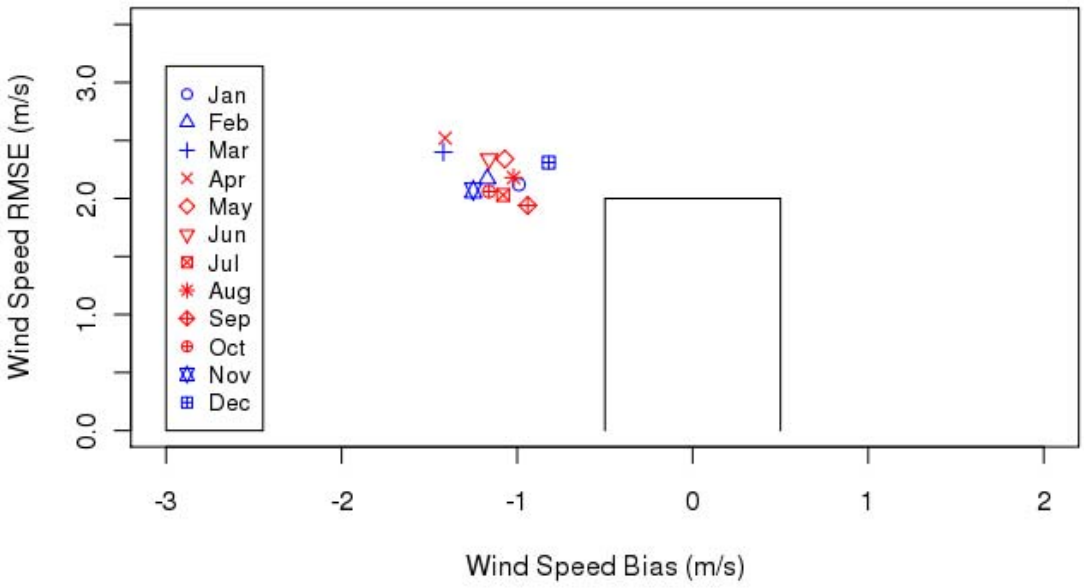
CO-KCPW 04km Wind Performance Comparison



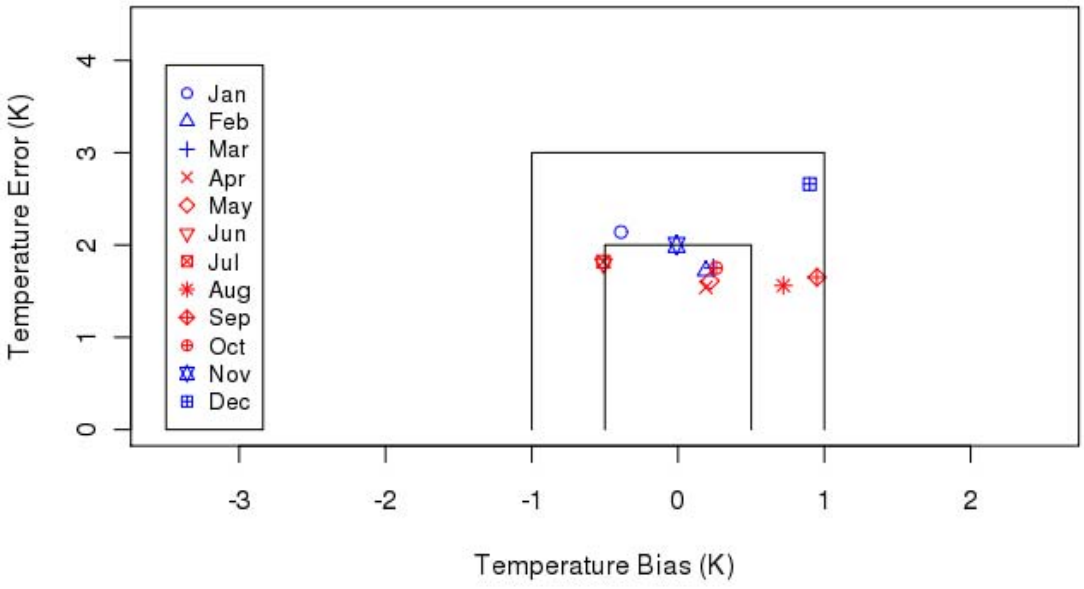

CO-KDEN 04km Wind Direction Performance Comparison
Wind Direction Error (deg)
0
20
40
60
80
-20
-10
0
10
Wind Direction Bias (deg)
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec


CO-KDEN 04km Humidity Performance Comparison
Humidity Error (g/kg)
0.0
0.5
1.0
1.5
2.0
2.5
3.0
-2.0
-1.5
-1.0
-0.5
0.0
0.5
1.0
1.5
Humidity Bias (g/kg)
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec

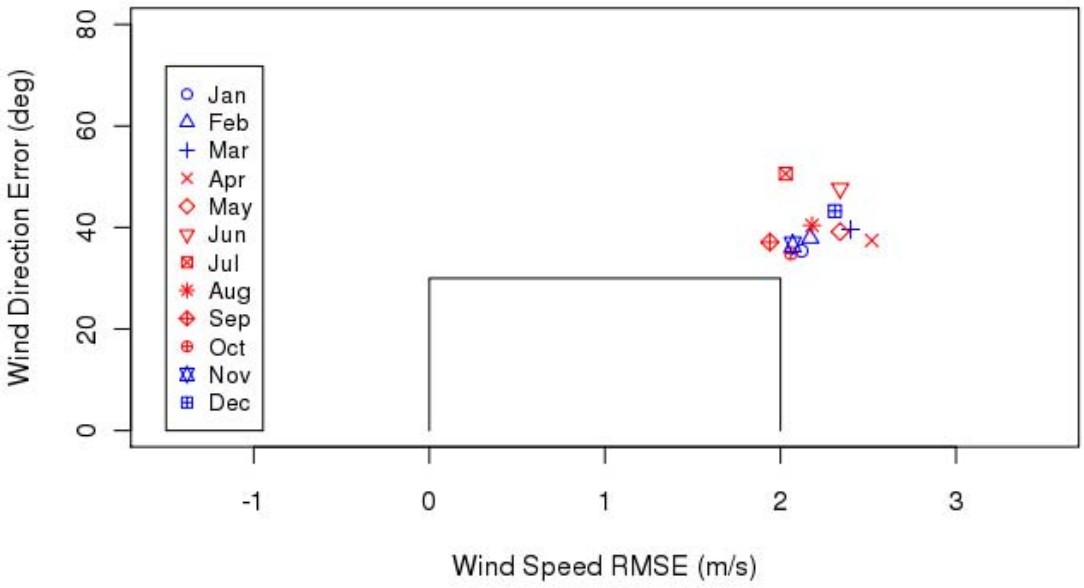
CO-KDEN 04km Wind Speed Performance Comparison



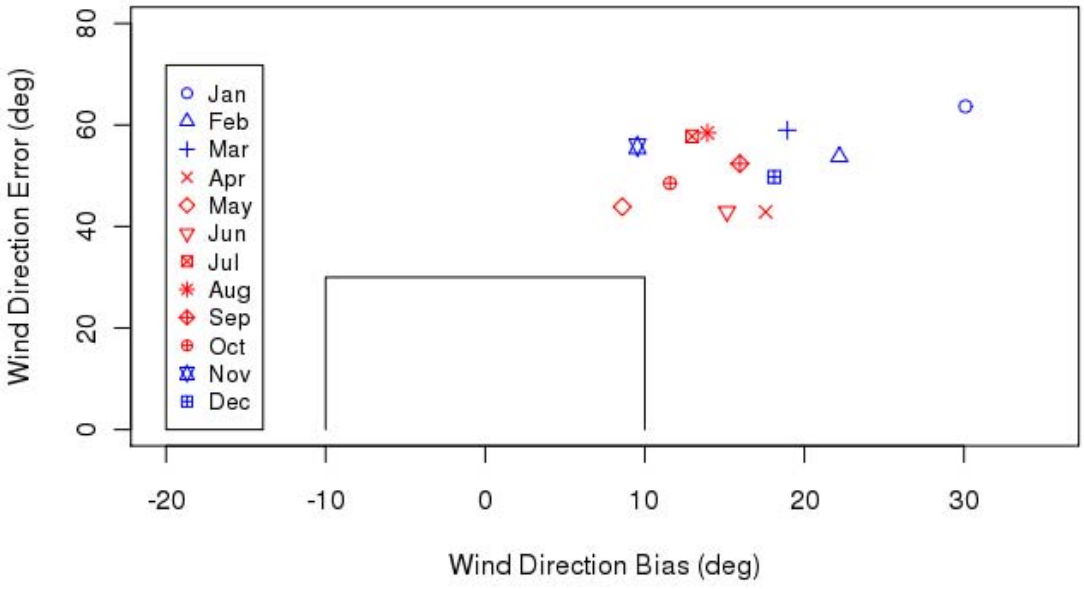
CO-KDEN 04km Temperature Performance Comparison



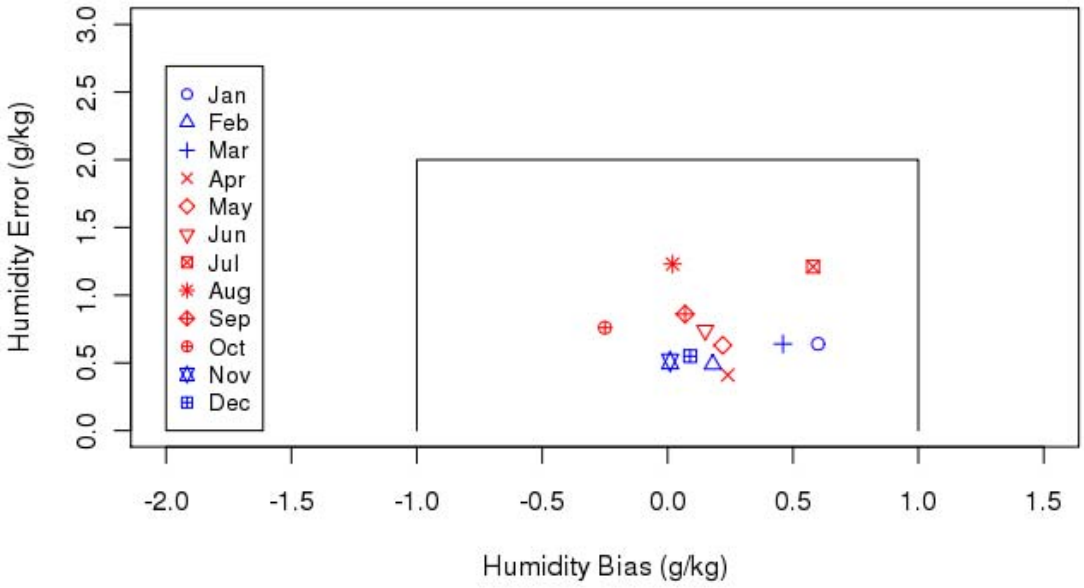
CO-KDEN 04km Wind Performance Comparison



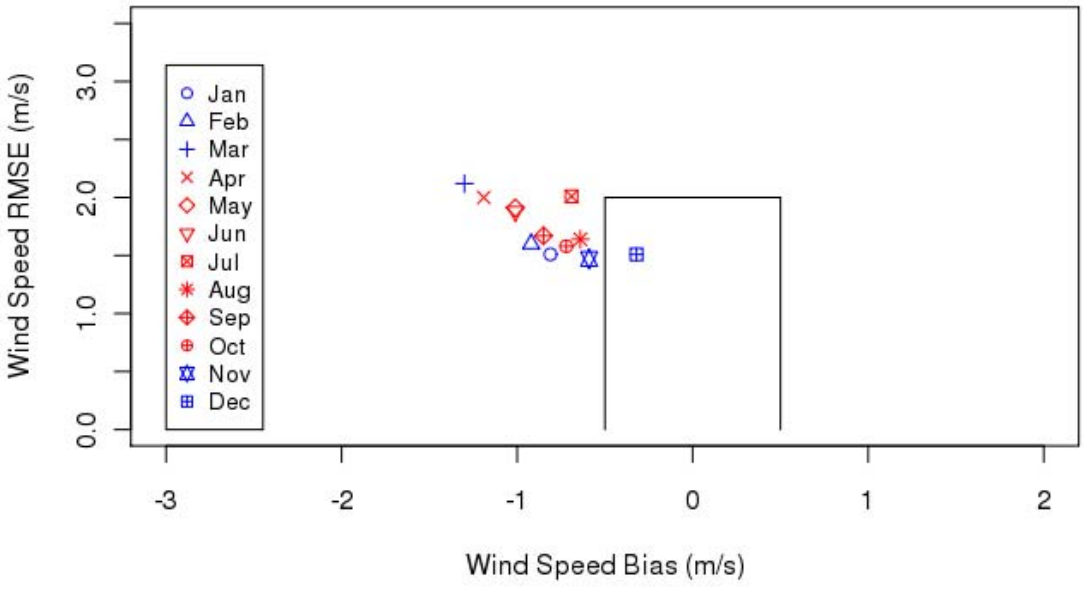
CO-KDRO 04km Wind Direction Performance Comparison



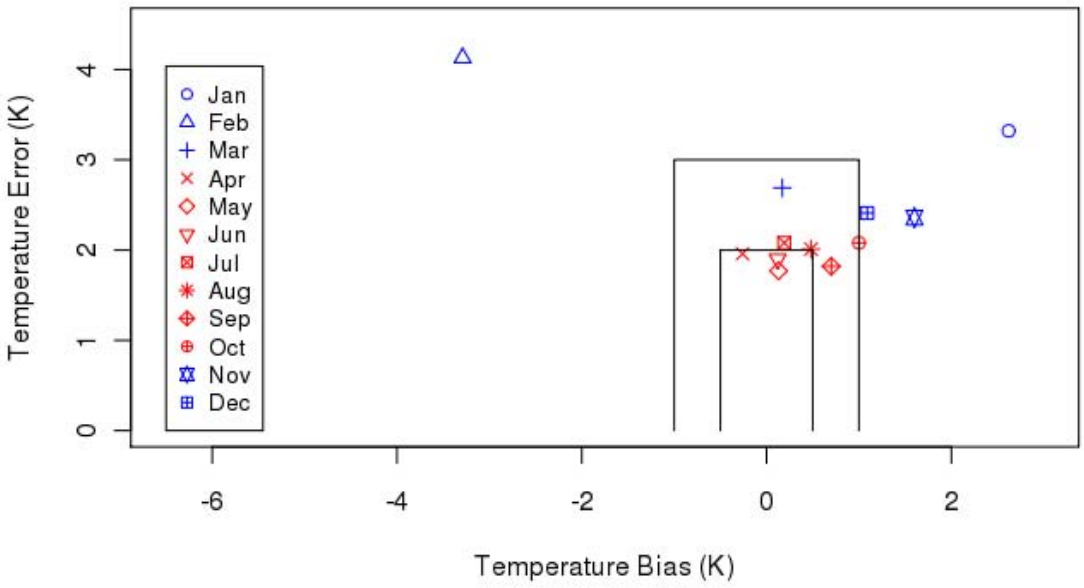
CO-KDRO 04km Humidity Performance Comparison



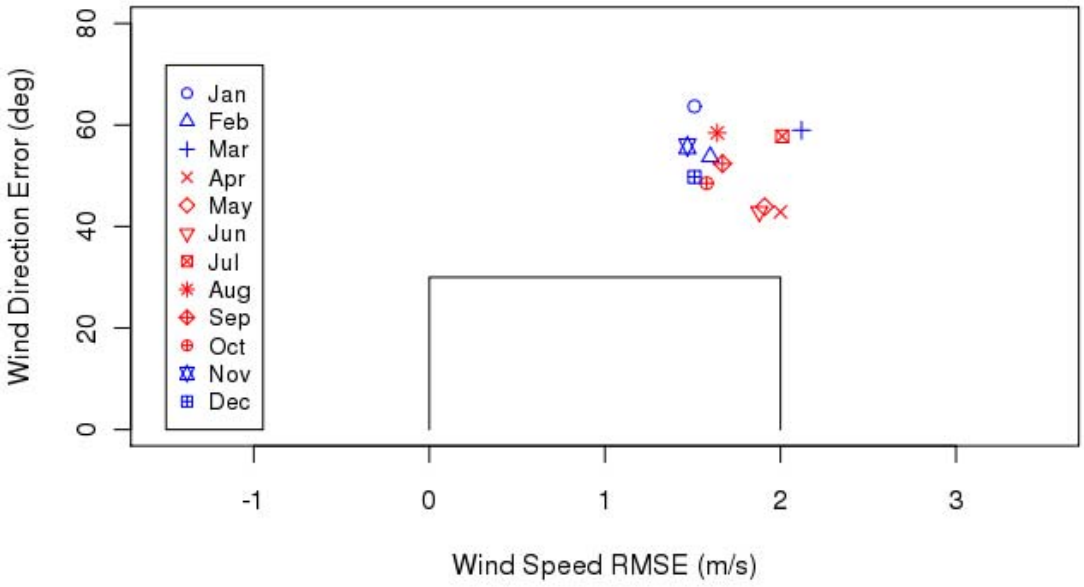
CO-KDRO 04km Wind Speed Performance Comparison



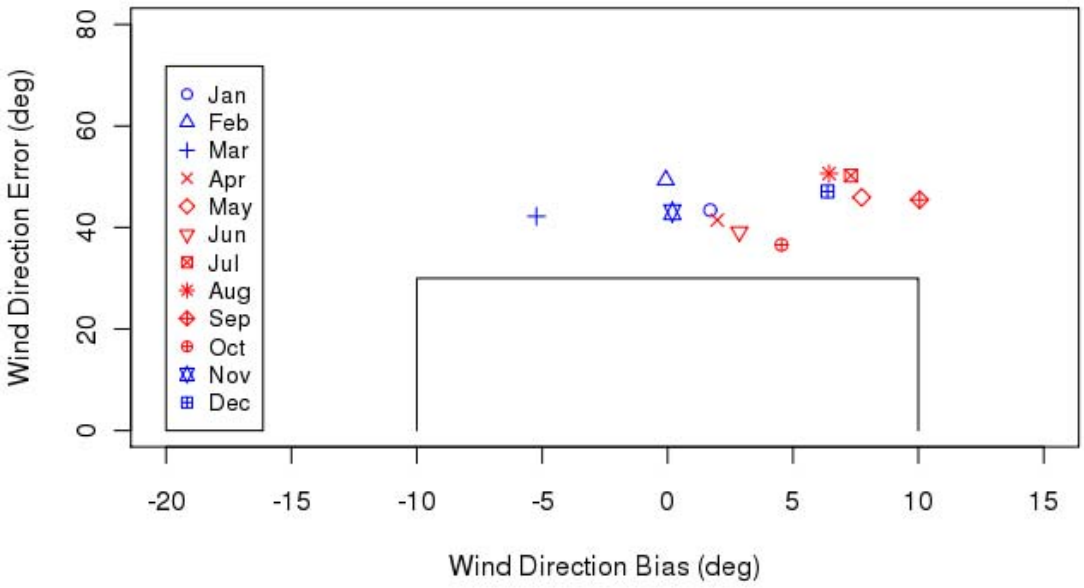
CO-KDRO 04km Temperature Performance Comparison



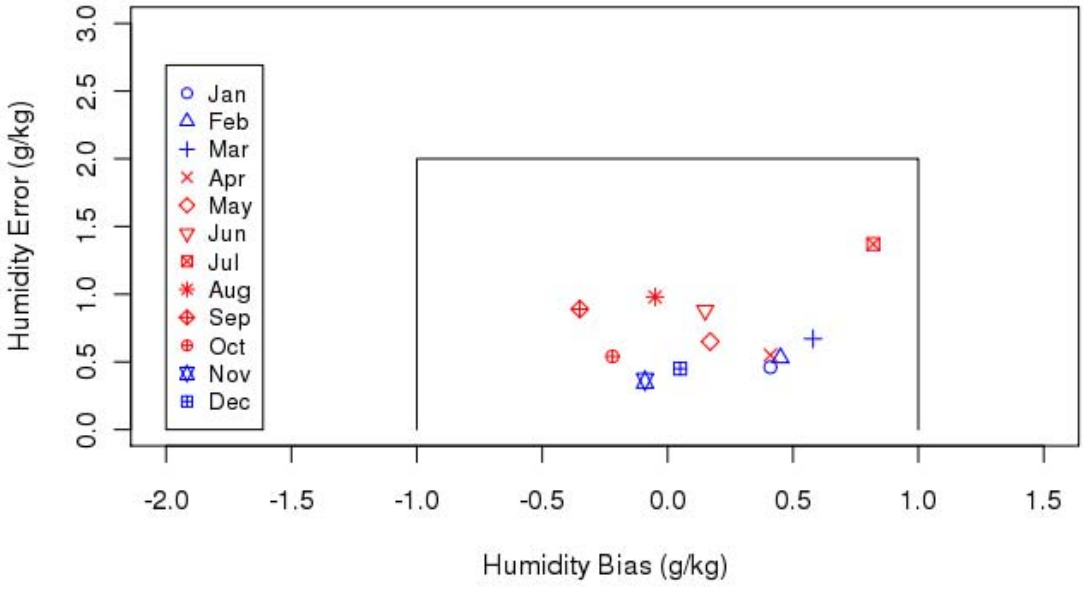
CO-KDRO 04km Wind Performance Comparison



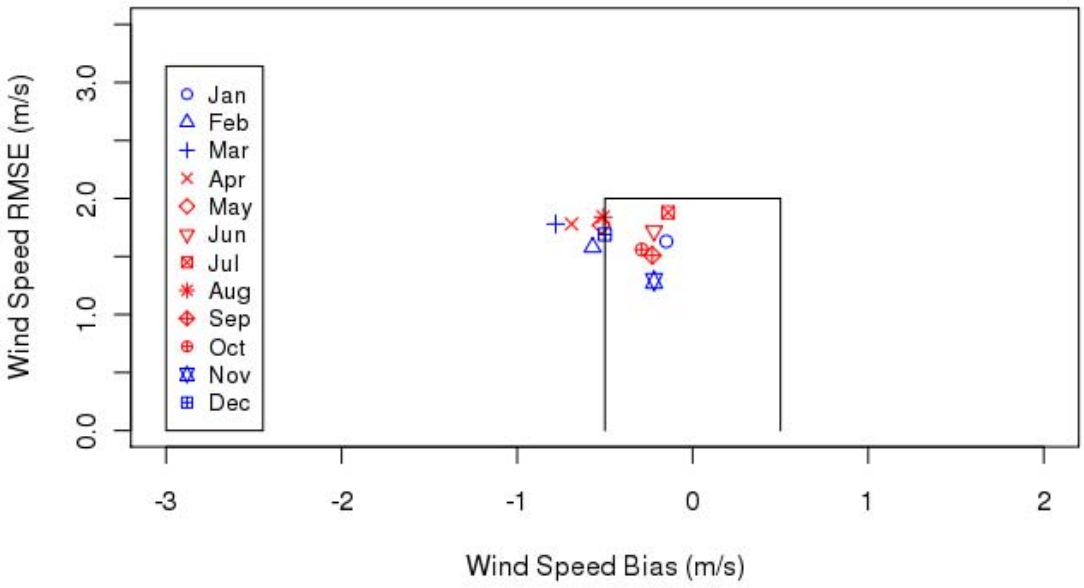
CO-KEEO 04km Wind Direction Performance Comparison



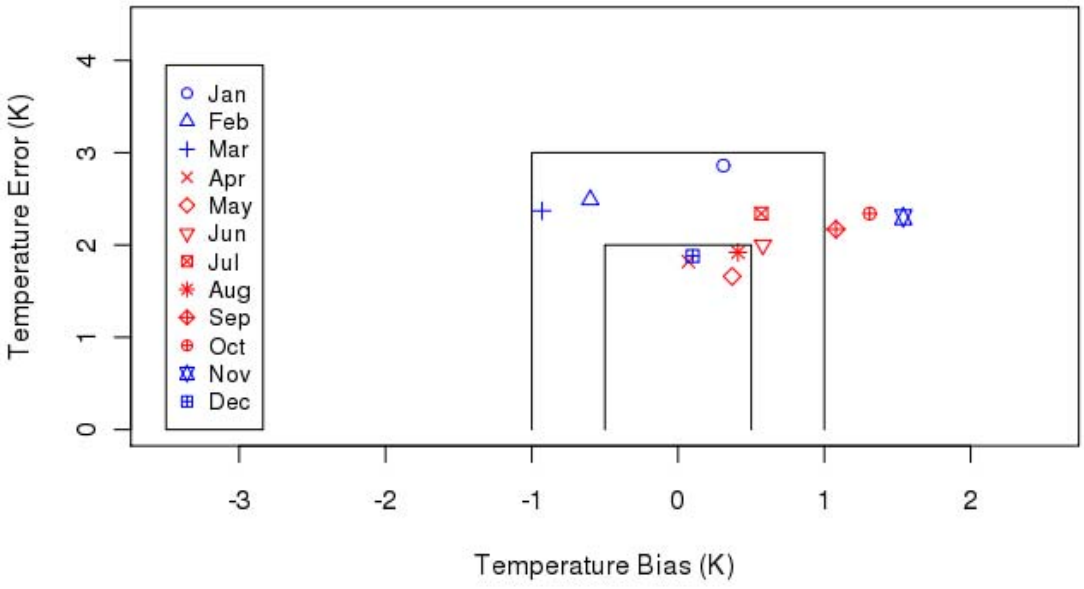
CO-KEEO 04km Humidity Performance Comparison



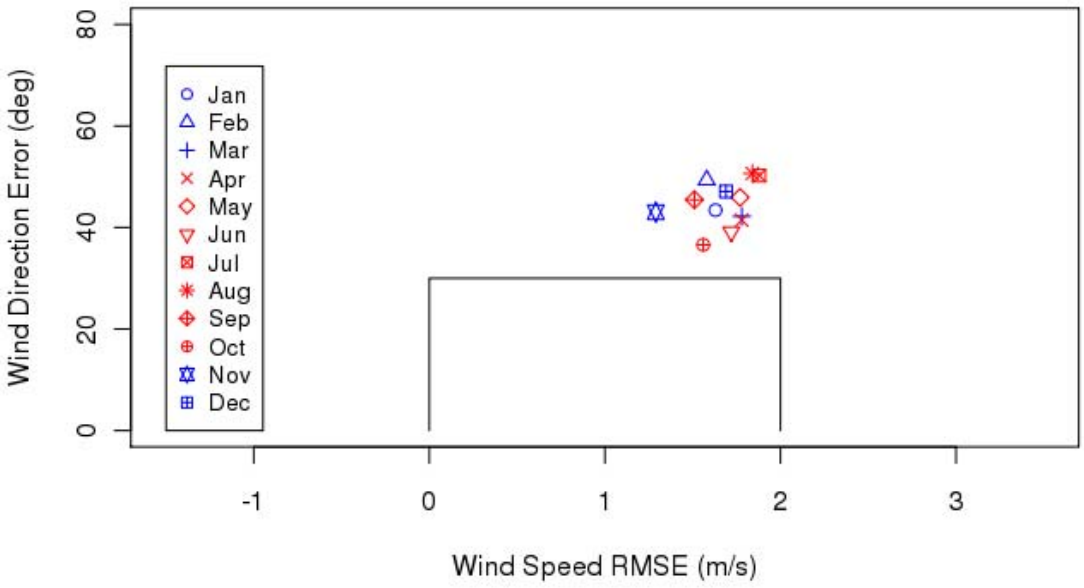
CO-KEEO 04km Wind Speed Performance Comparison



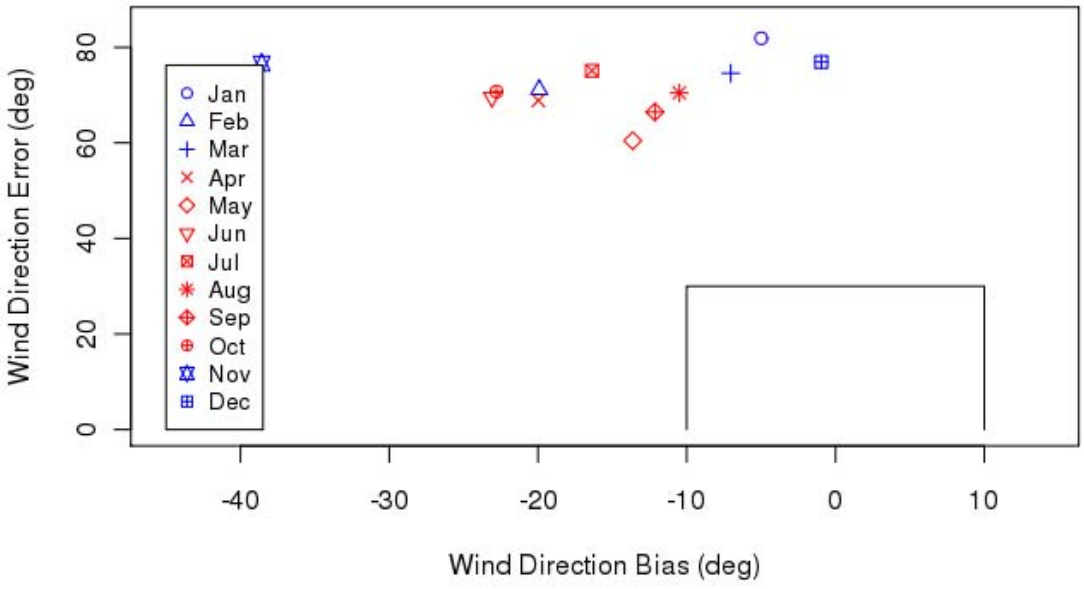
CO-KEEO 04km Temperature Performance Comparison



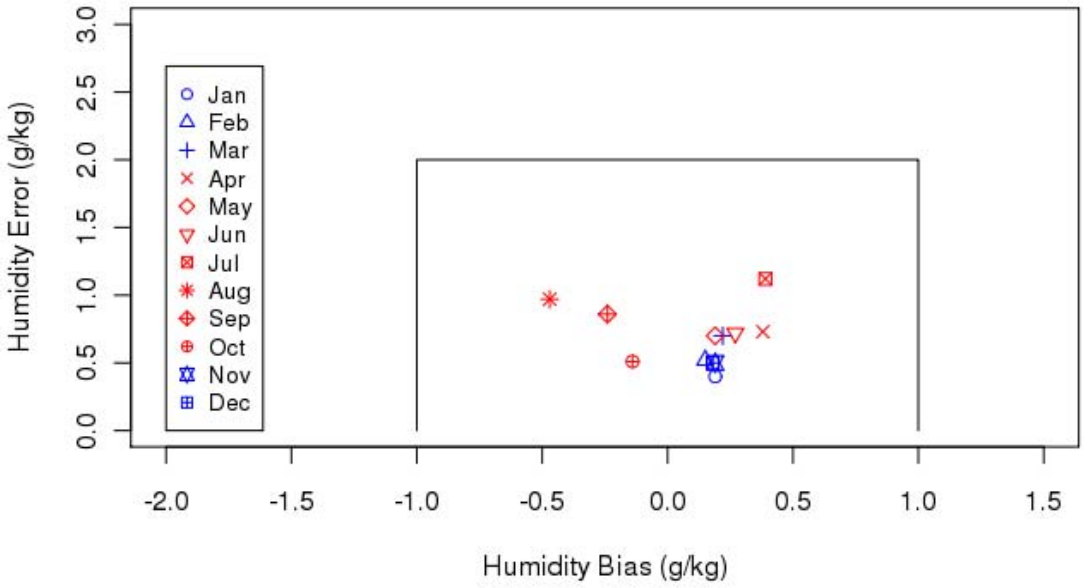
CO-KEEO 04km Wind Performance Comparison



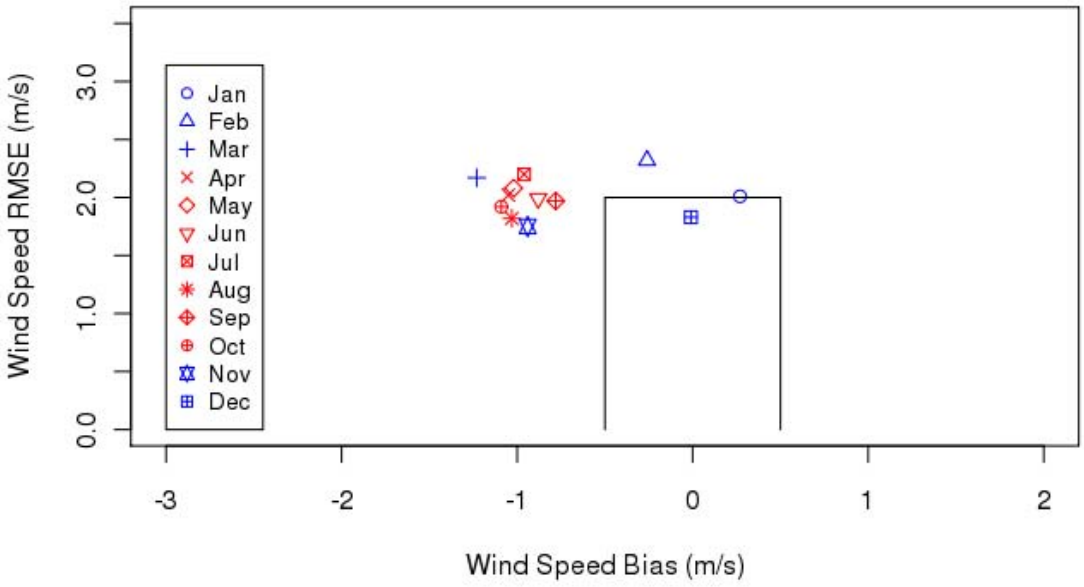
CO-KEGE 04km Wind Direction Performance Comparison



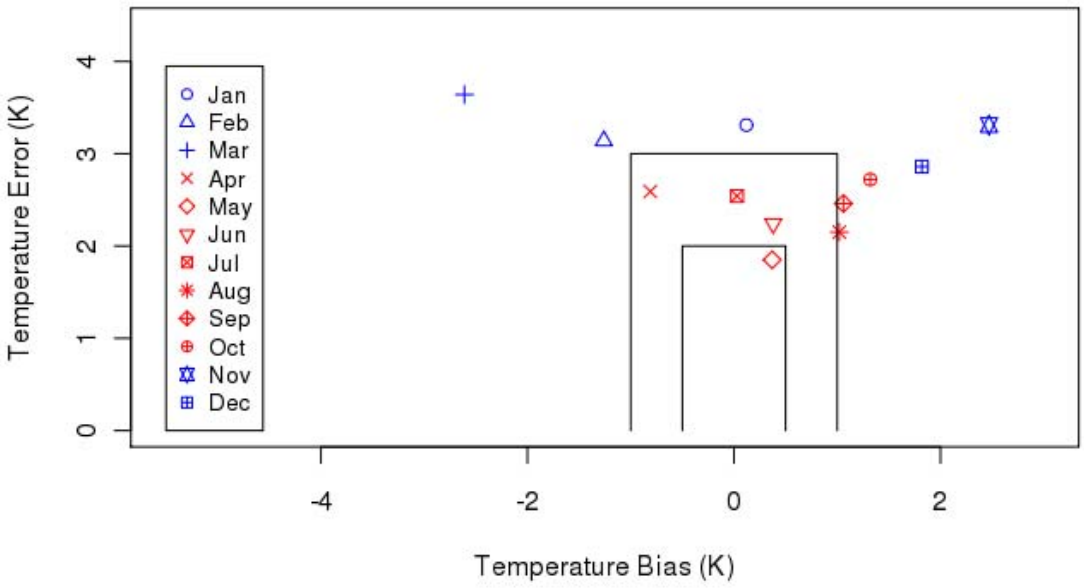
CO-KEGE 04km Humidity Performance Comparison



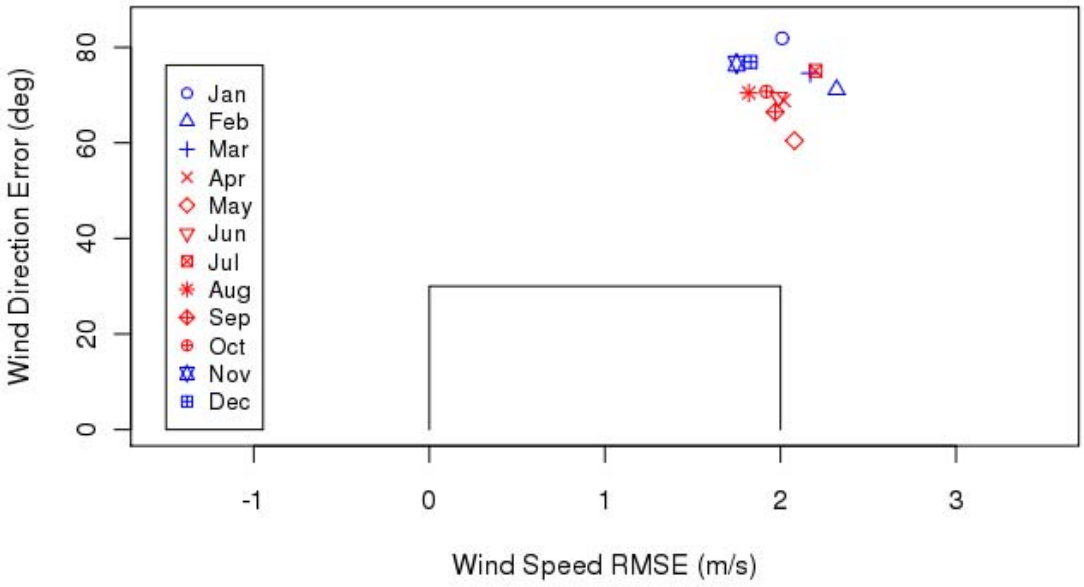
CO-KEGE 04km Wind Speed Performance Comparison



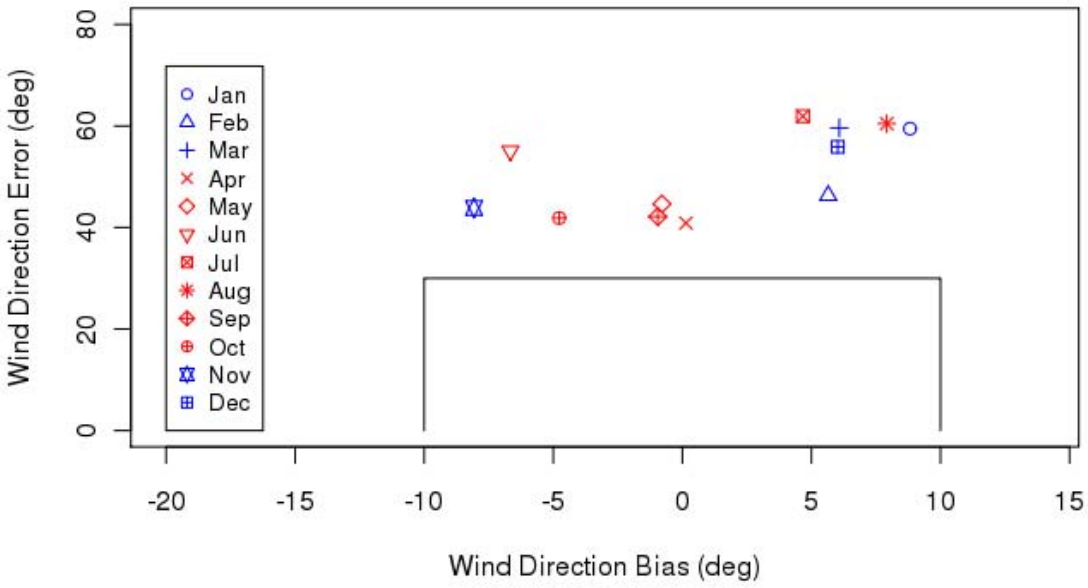
CO-KEGE 04km Temperature Performance Comparison



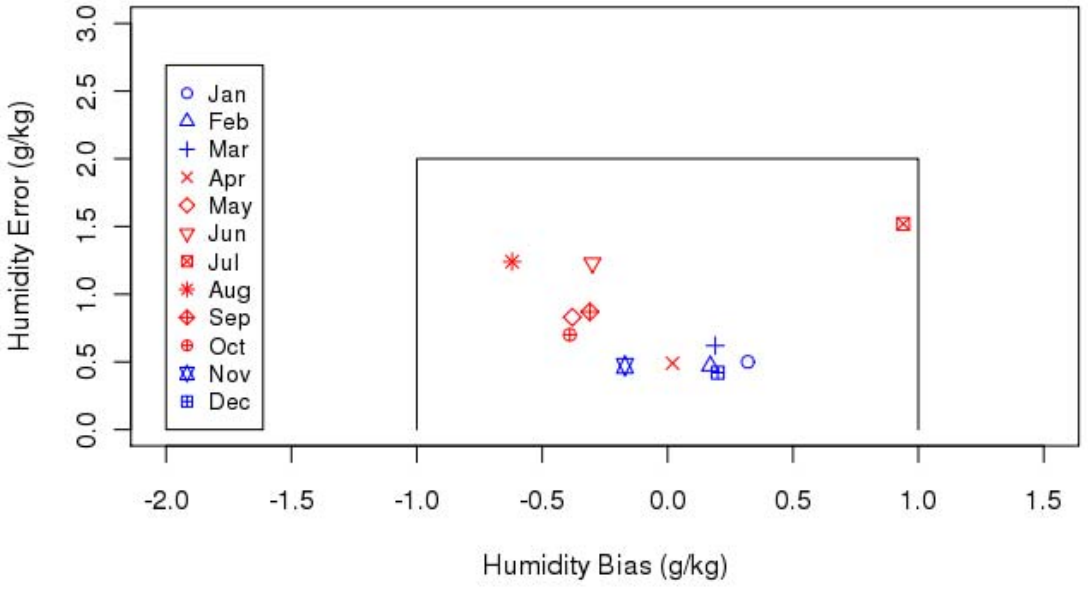
CO-KEGE 04km Wind Performance Comparison



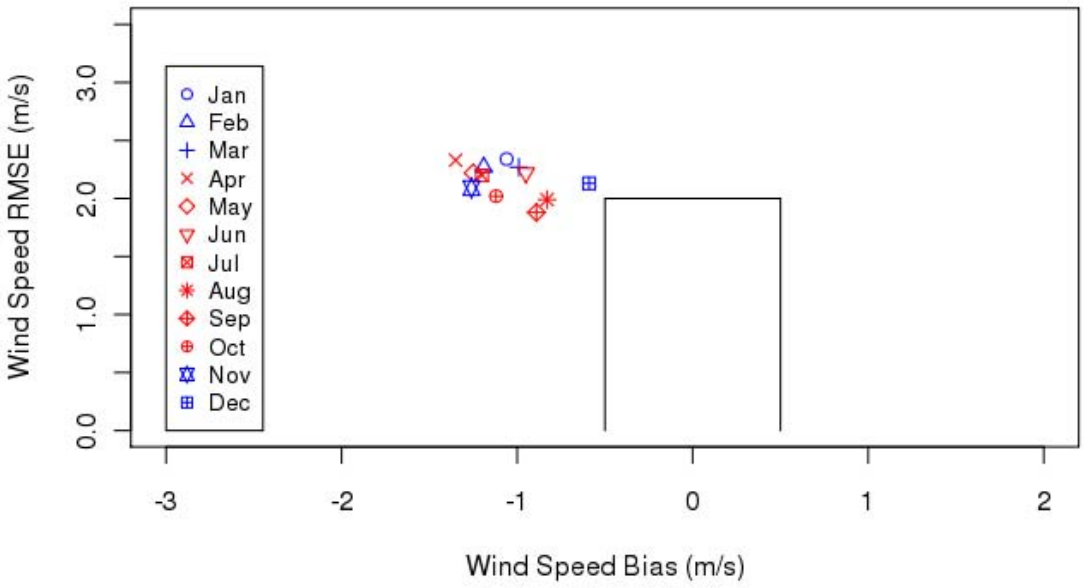
CO-KFCS 04km Wind Direction Performance Comparison



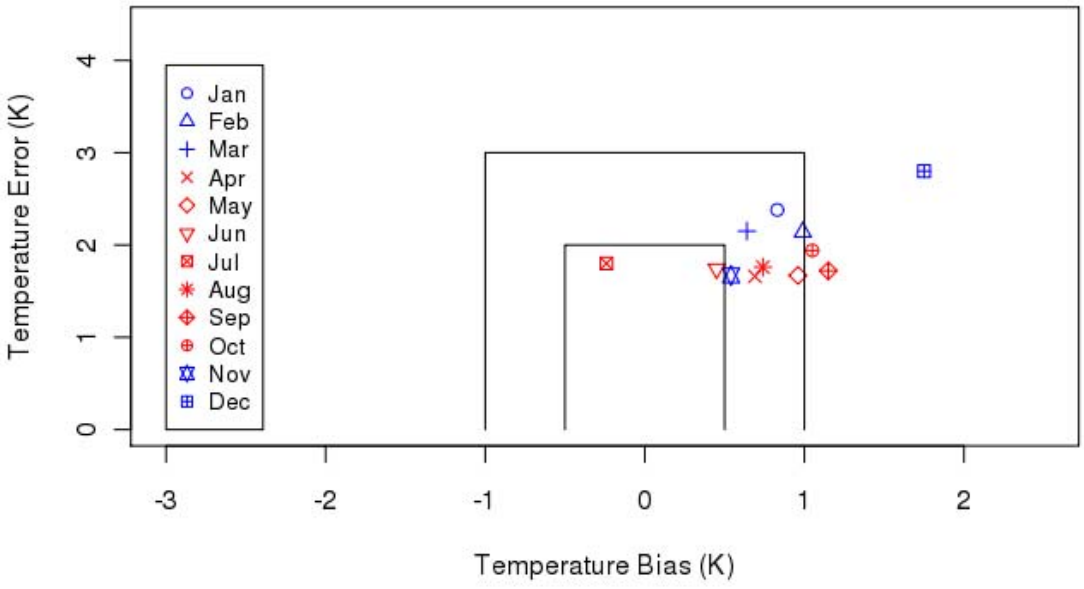
CO-KFCS 04km Humidity Performance Comparison



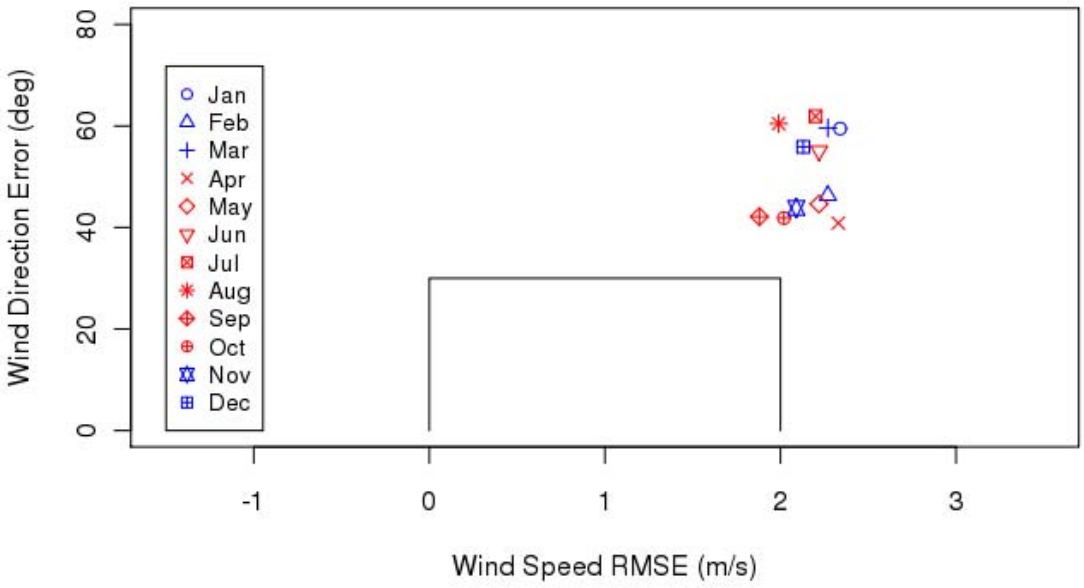
CO-KFCS 04km Wind Speed Performance Comparison



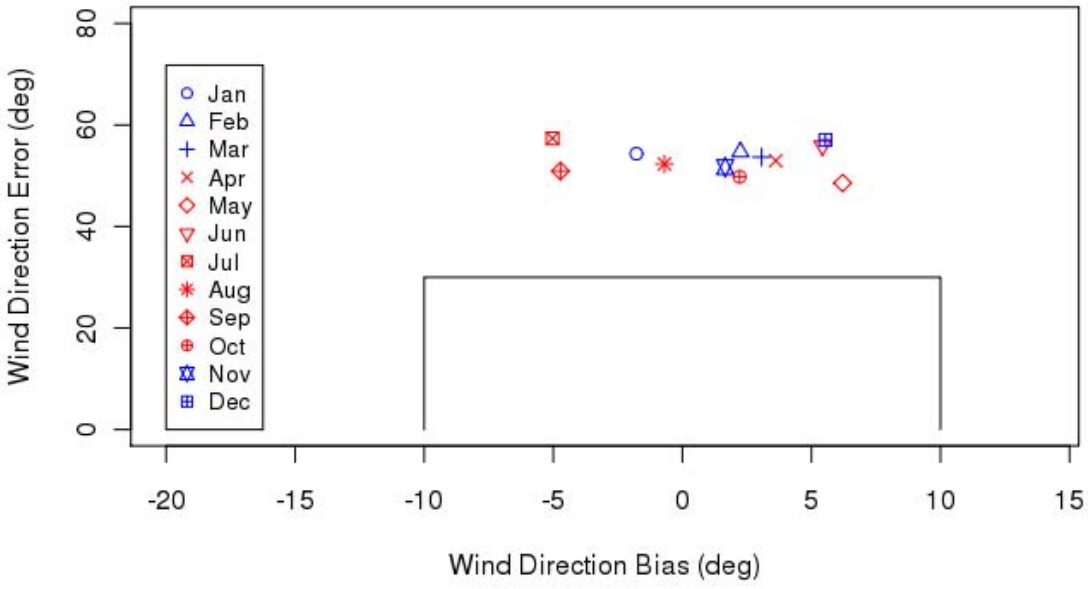
CO-KFCS 04km Temperature Performance Comparison



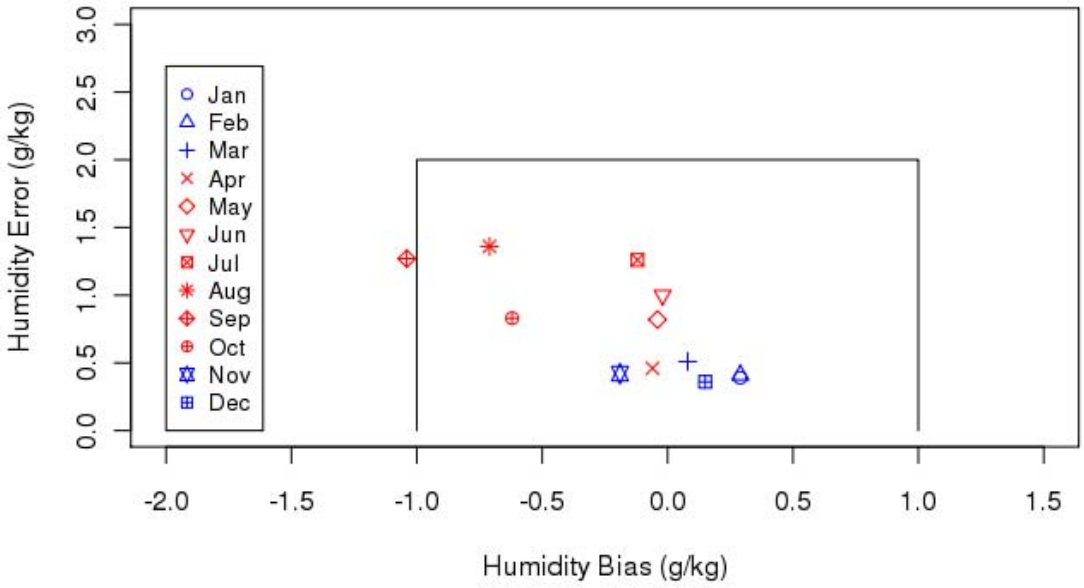
CO-KFCS 04km Wind Performance Comparison



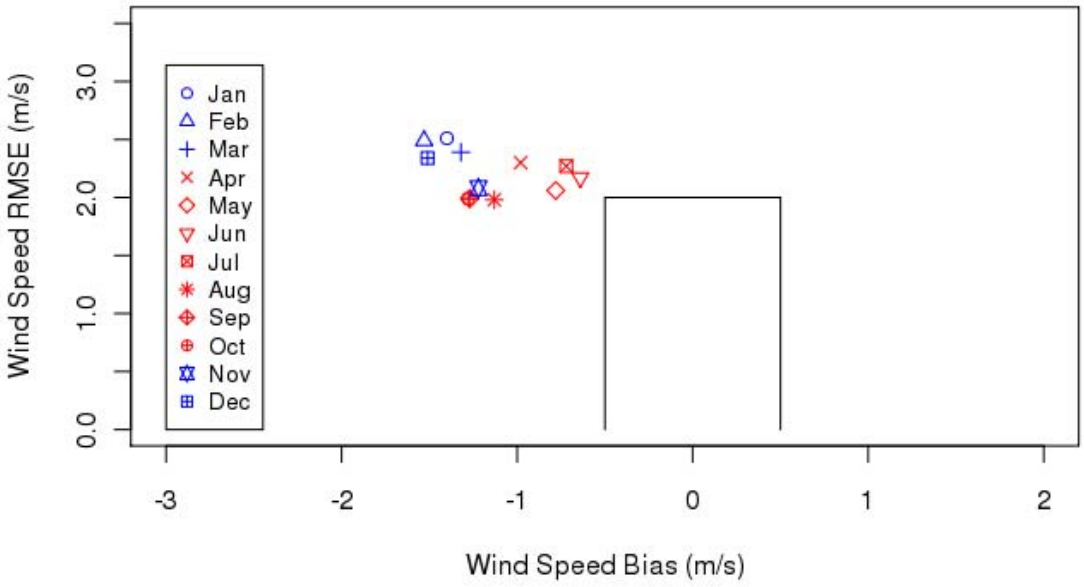
CO-KFNL 04km Wind Direction Performance Comparison



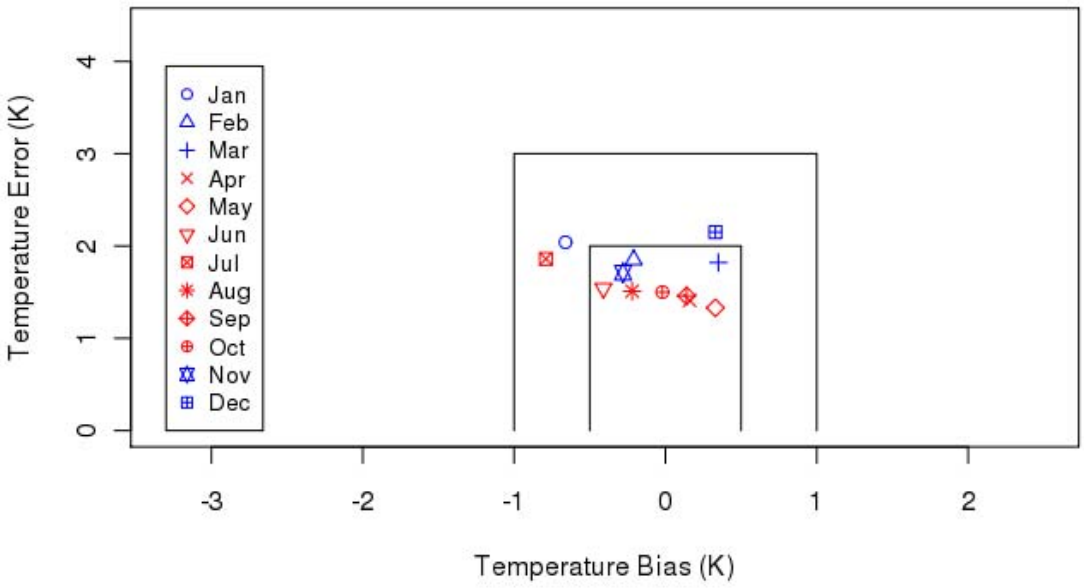
CO-KFNL 04km Humidity Performance Comparison



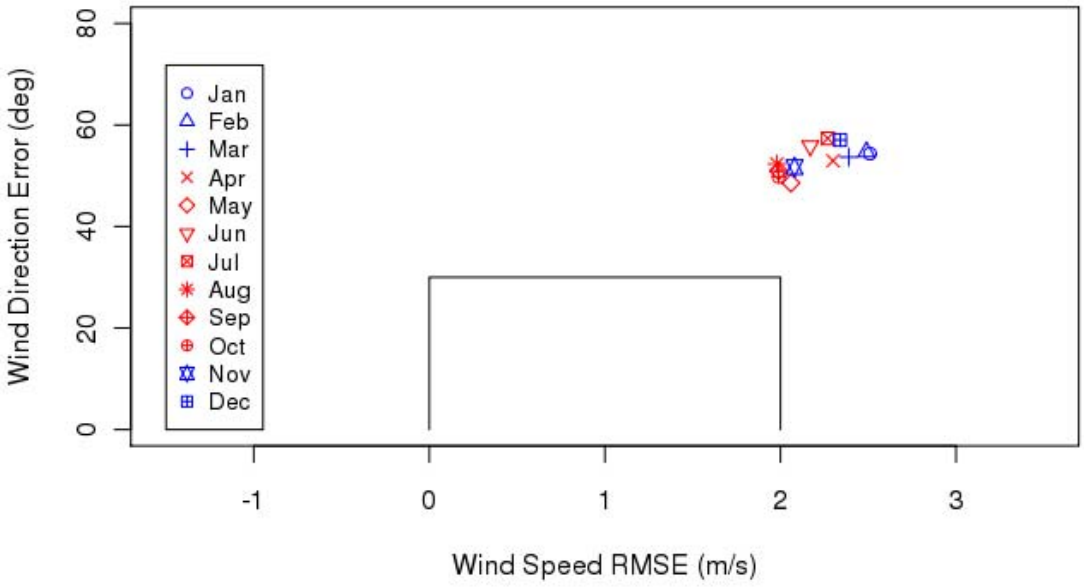
CO-KFNL 04km Wind Speed Performance Comparison



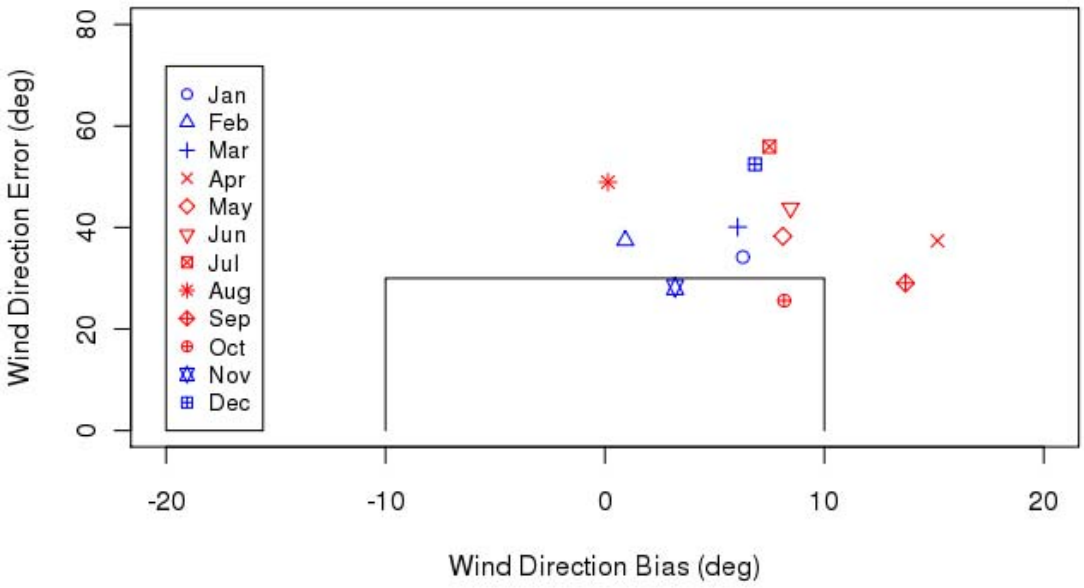
CO-KFNL 04km Temperature Performance Comparison



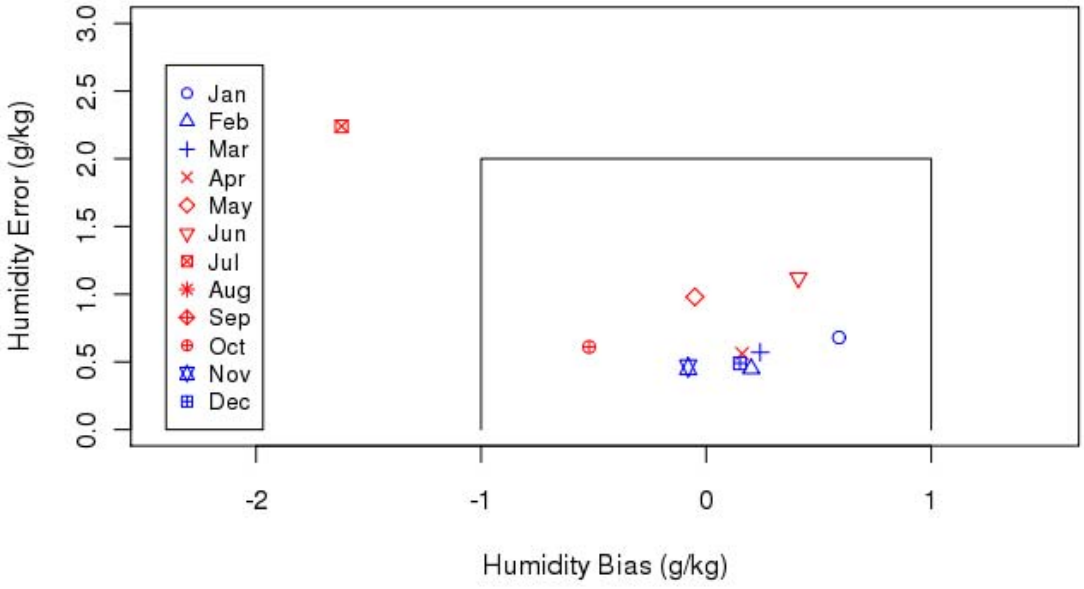
CO-KFNL 04km Wind Performance Comparison



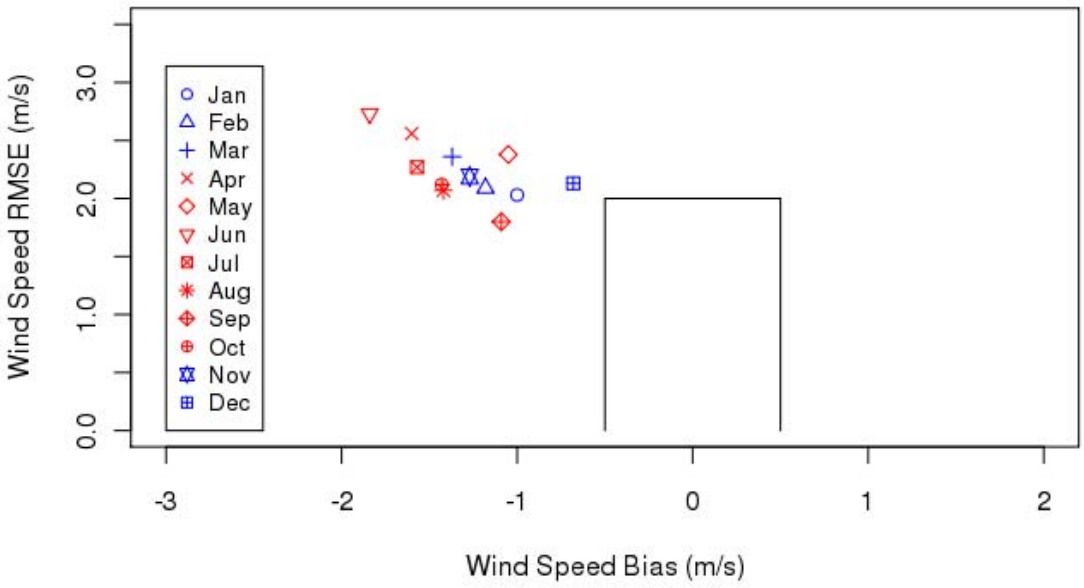
CO-KFTG 04km Wind Direction Performance Comparison



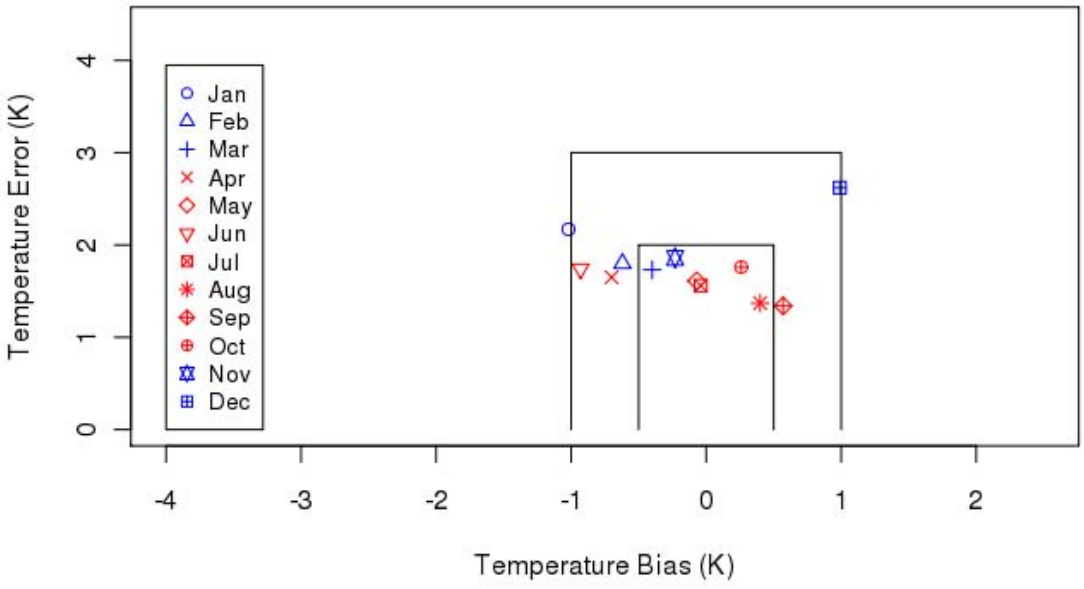
CO-KFTG 04km Humidity Performance Comparison



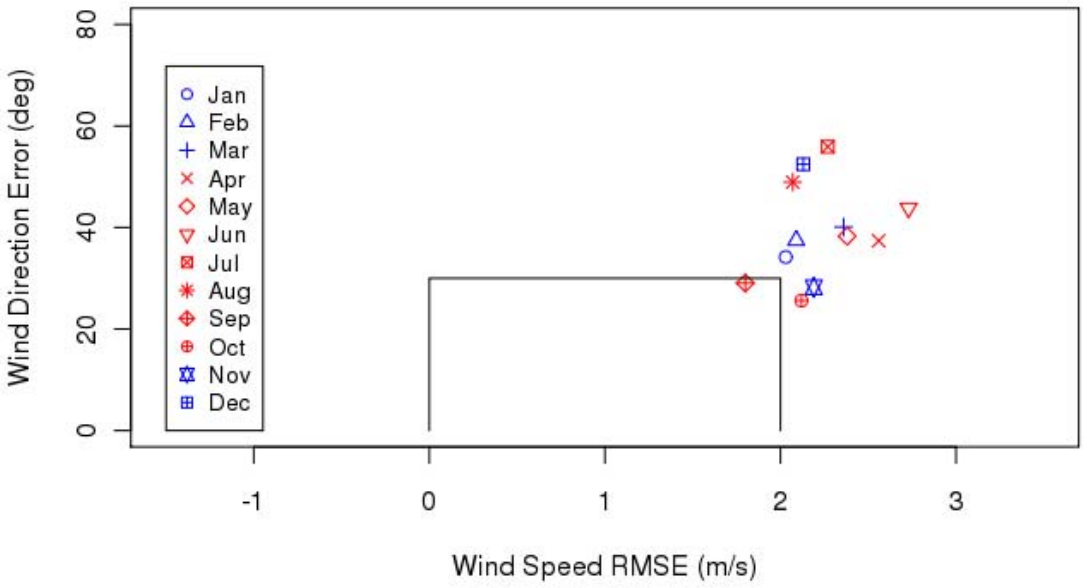
CO-KFTG 04km Wind Speed Performance Comparison



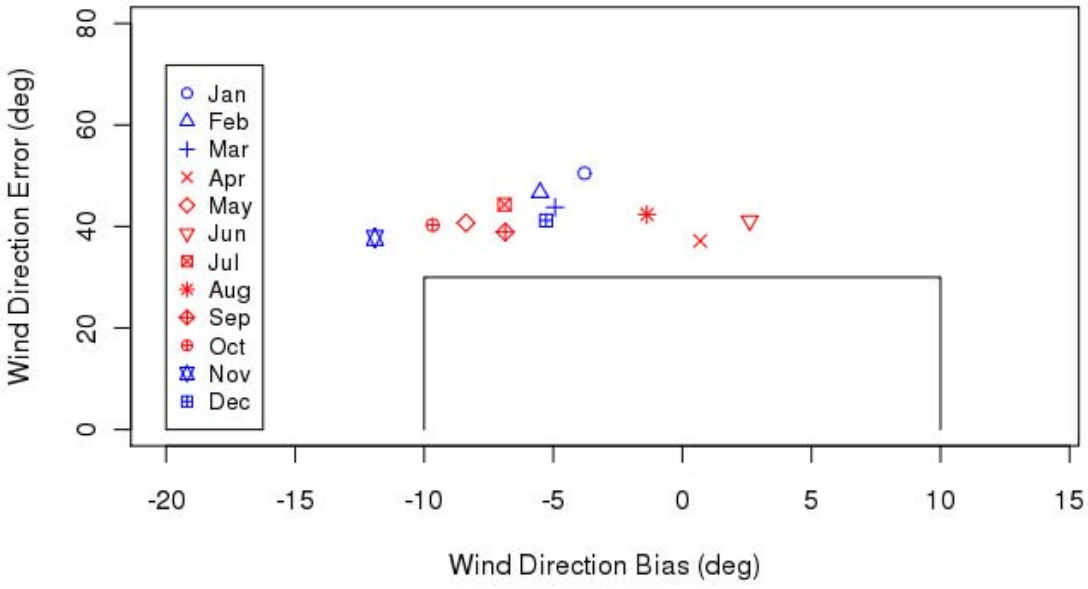
CO-KFTG 04km Temperature Performance Comparison



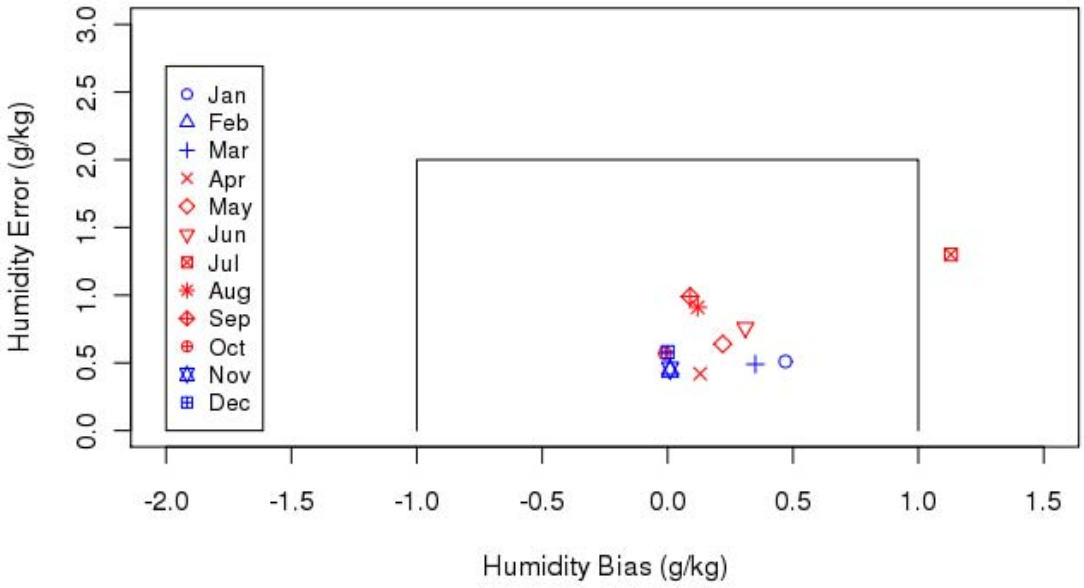
CO-KFTG 04km Wind Performance Comparison



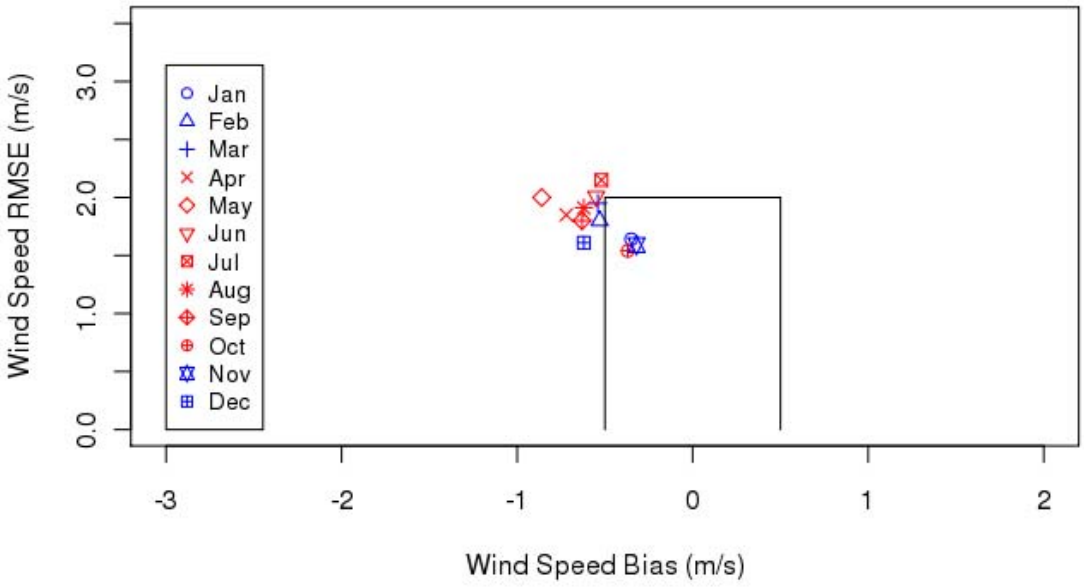
CO-KGJT 04km Wind Direction Performance Comparison



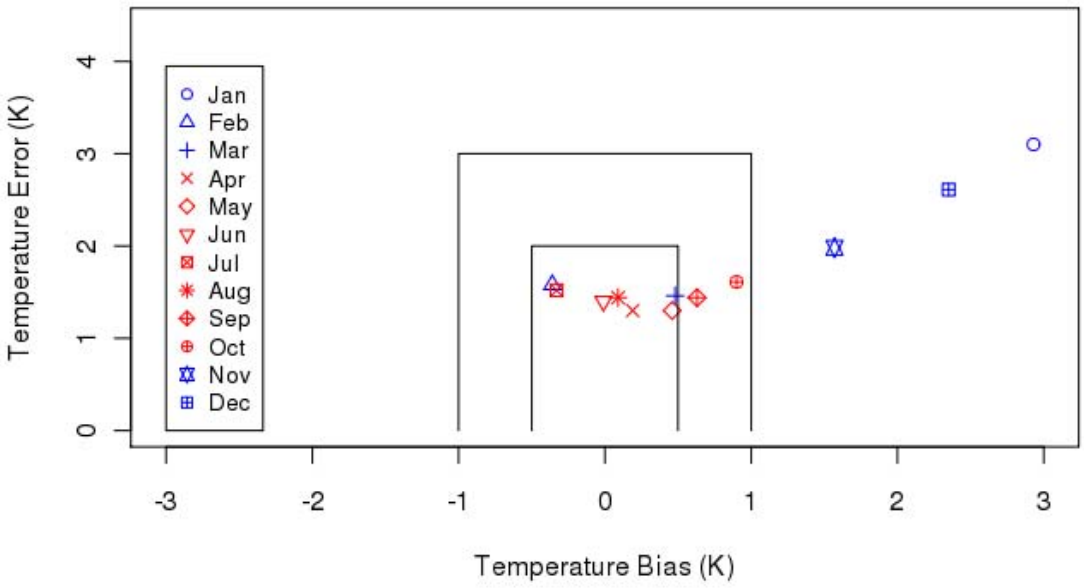
CO-KGJT 04km Humidity Performance Comparison



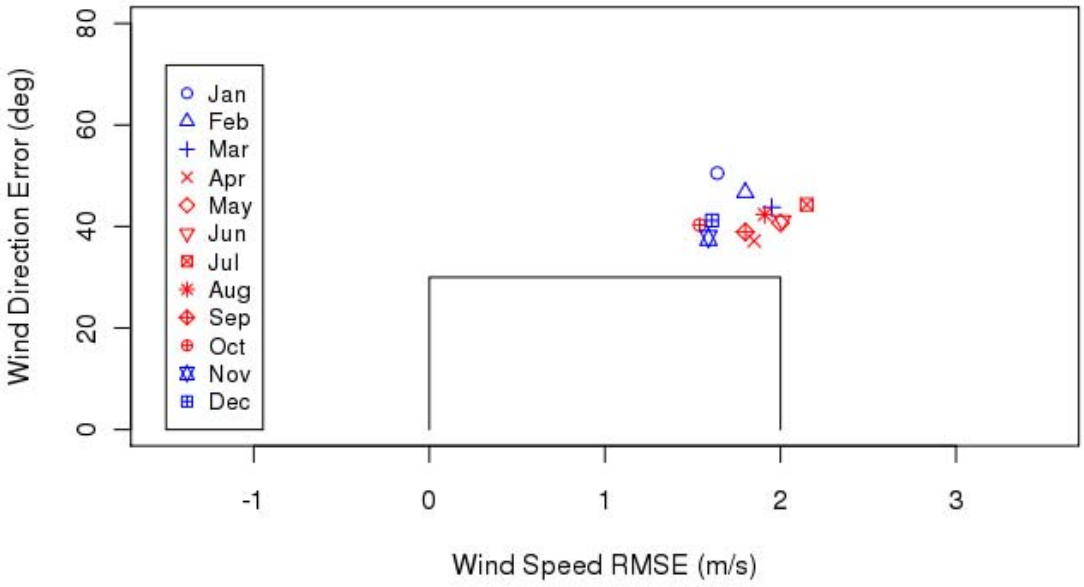
CO-KGJT 04km Wind Speed Performance Comparison



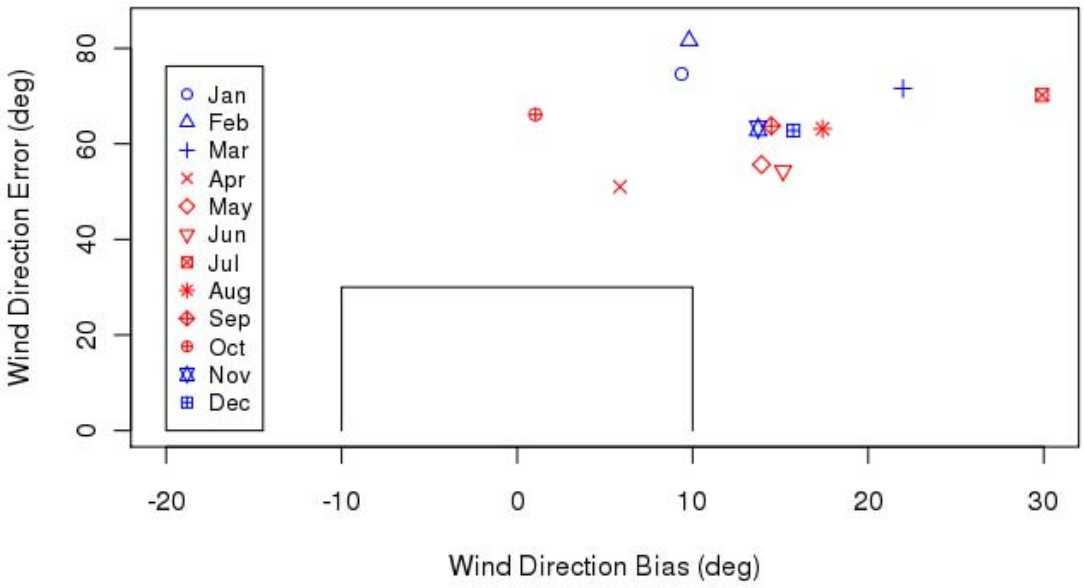
CO-KGJT 04km Temperature Performance Comparison



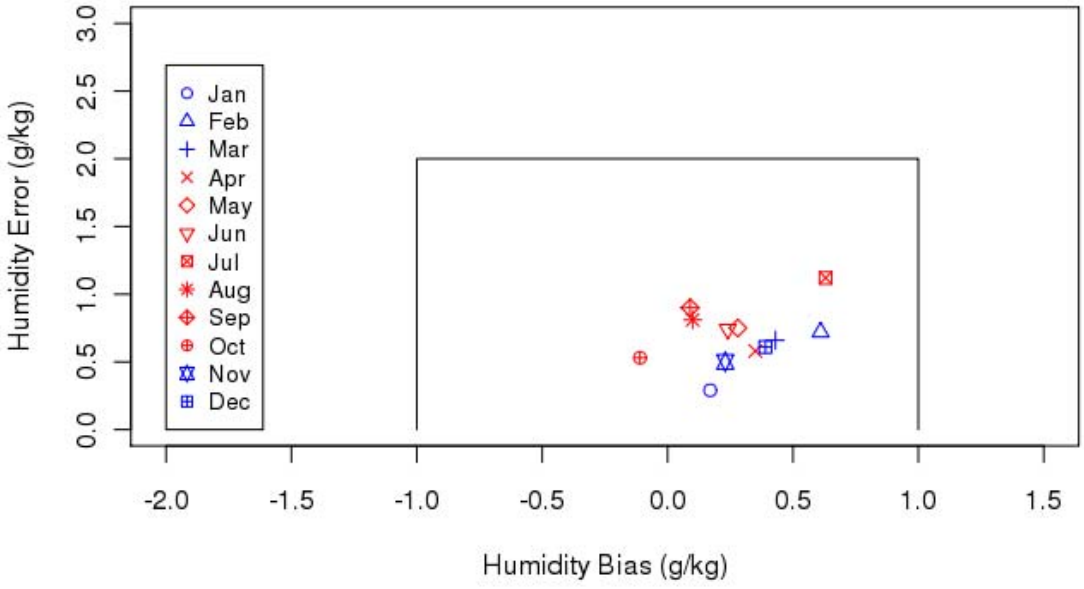
CO-KGJT 04km Wind Performance Comparison



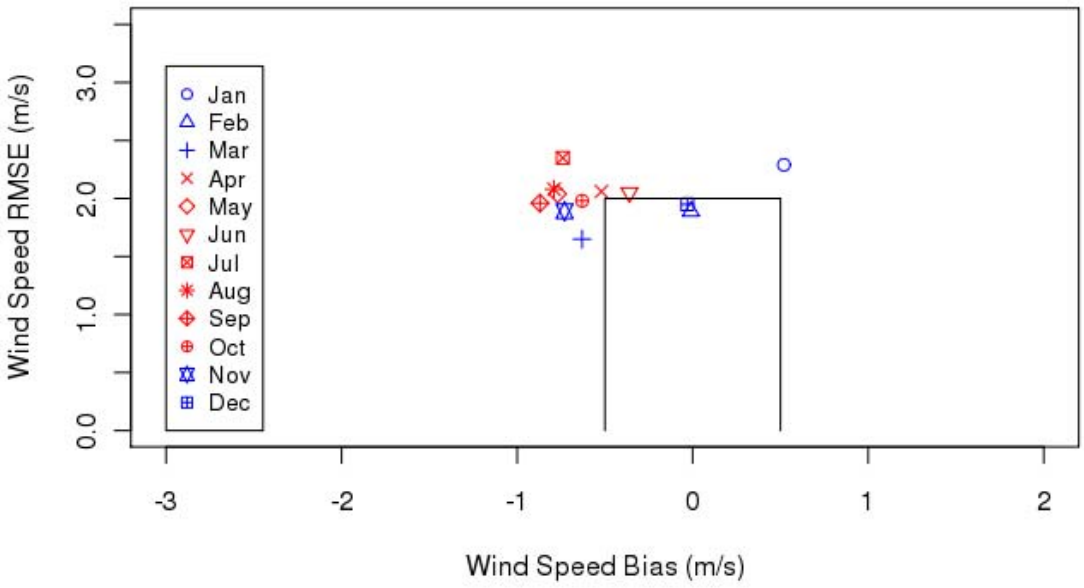
CO-KGUC 04km Wind Direction Performance Comparison



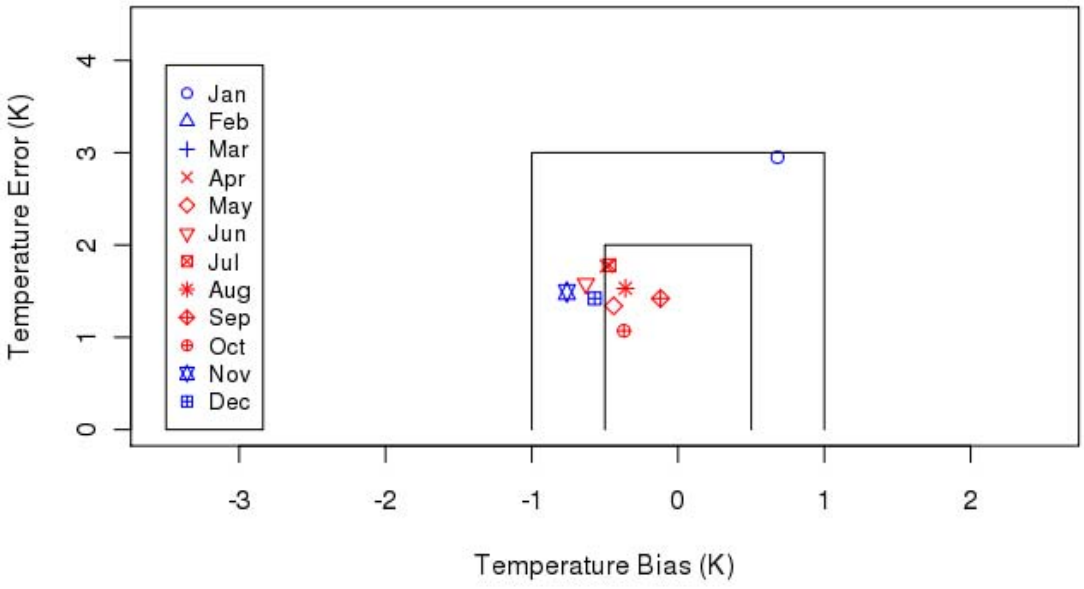
CO-KGUC 04km Humidity Performance Comparison



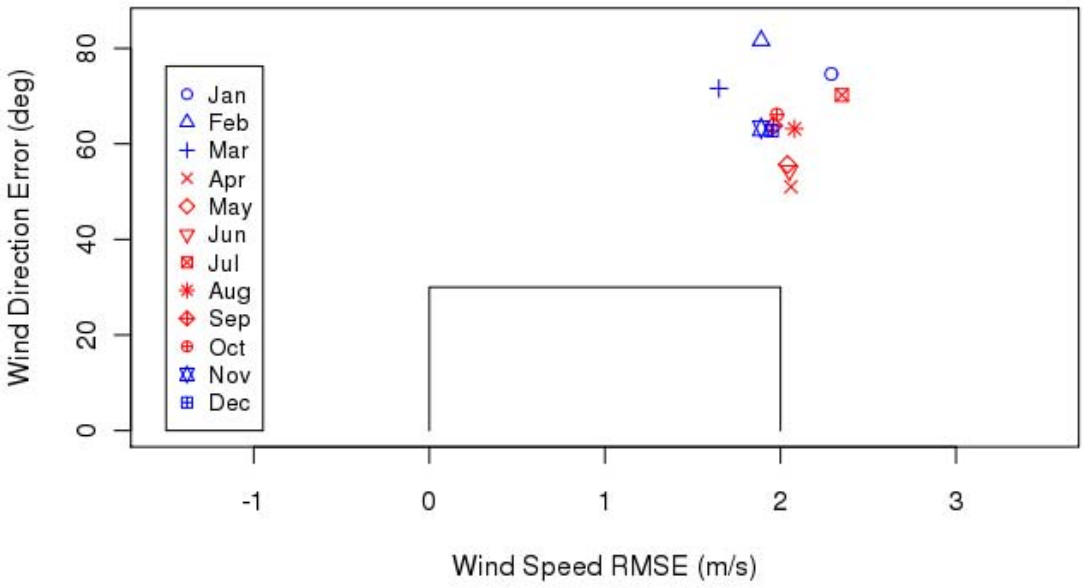
CO-KGUC 04km Wind Speed Performance Comparison



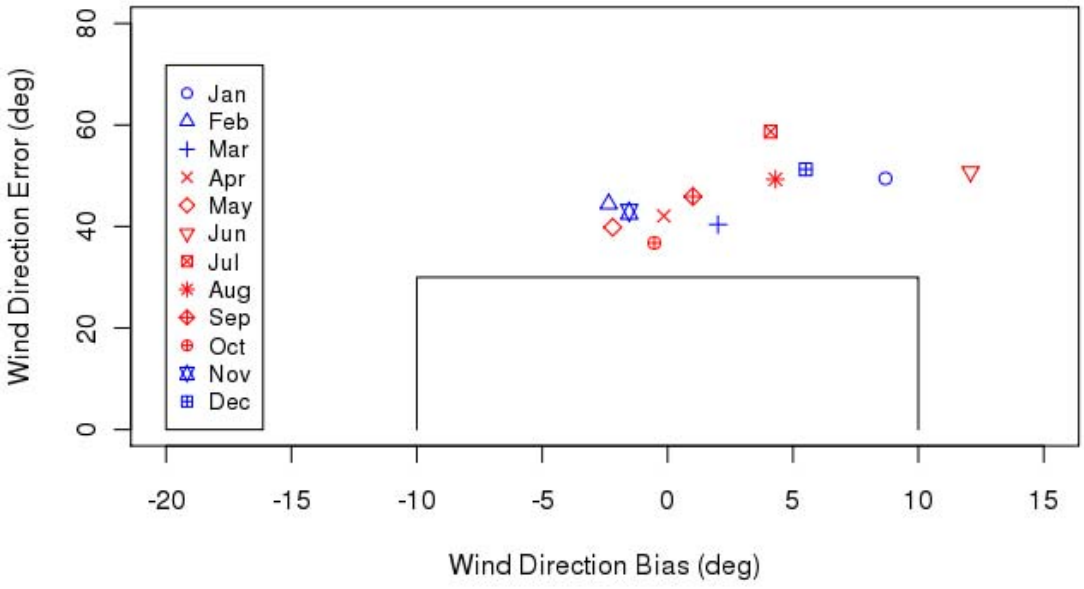
CO-KGUC 04km Temperature Performance Comparison



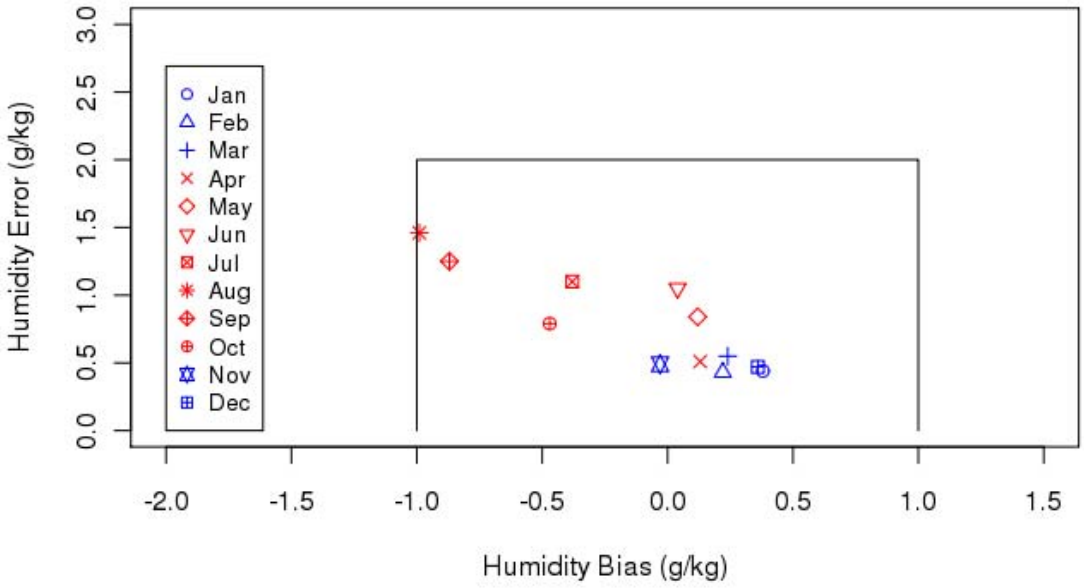
CO-KGUC 04km Wind Performance Comparison



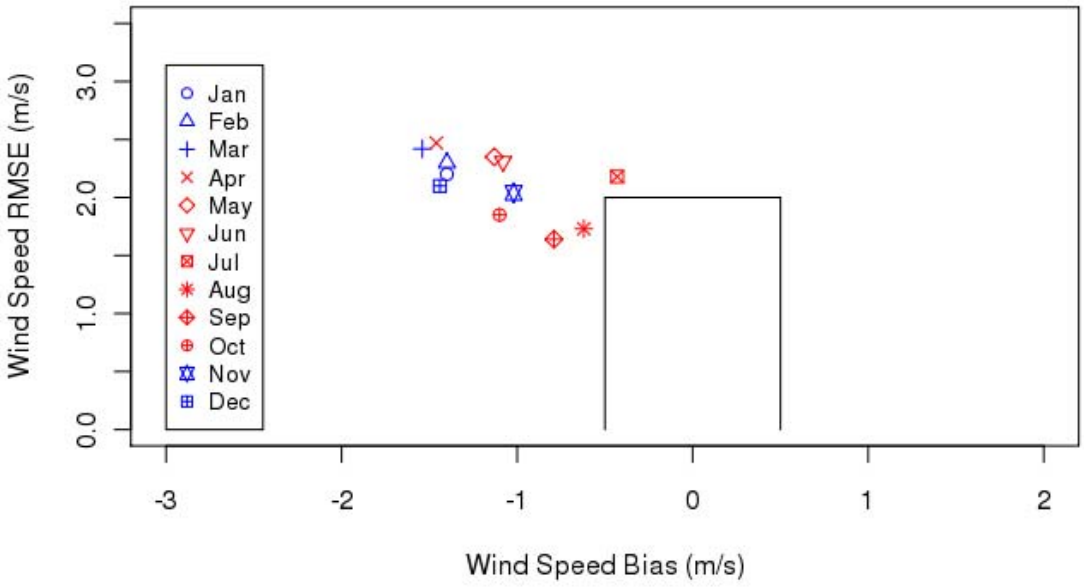
CO-KGXY 04km Wind Direction Performance Comparison



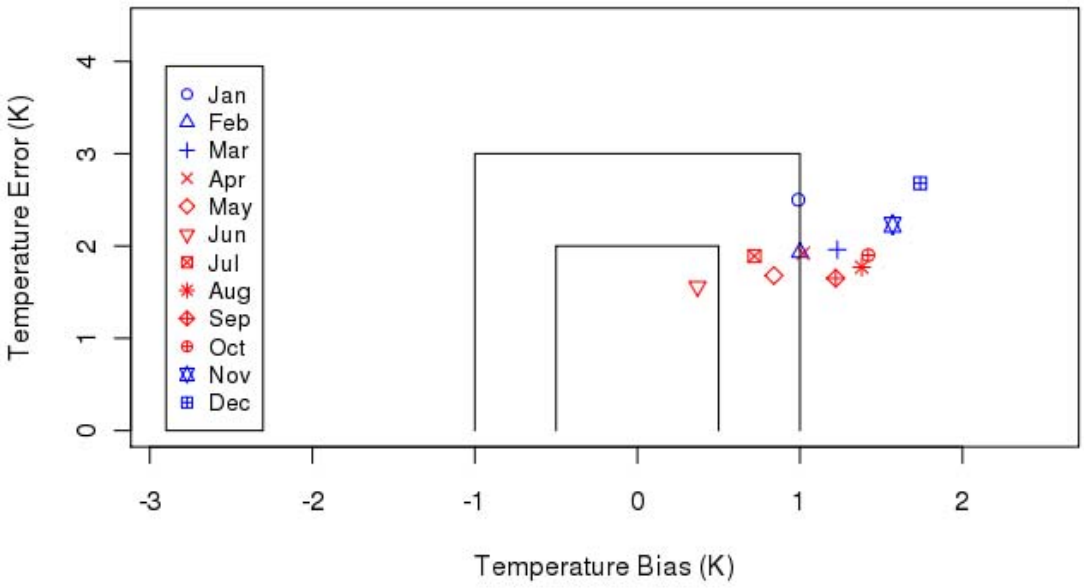
CO-KGXY 04km Humidity Performance Comparison



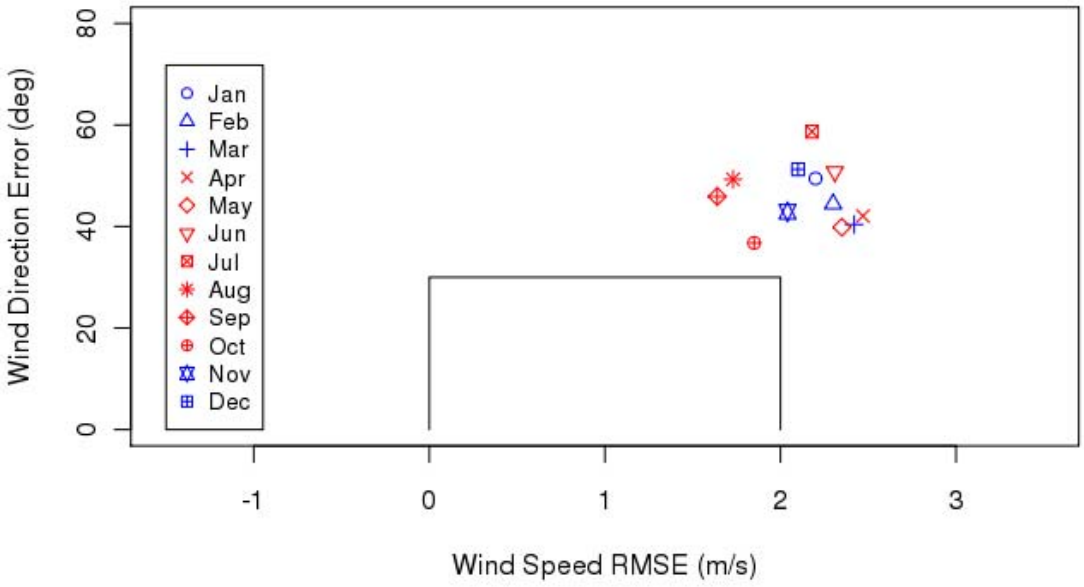
CO-KGXY 04km Wind Speed Performance Comparison

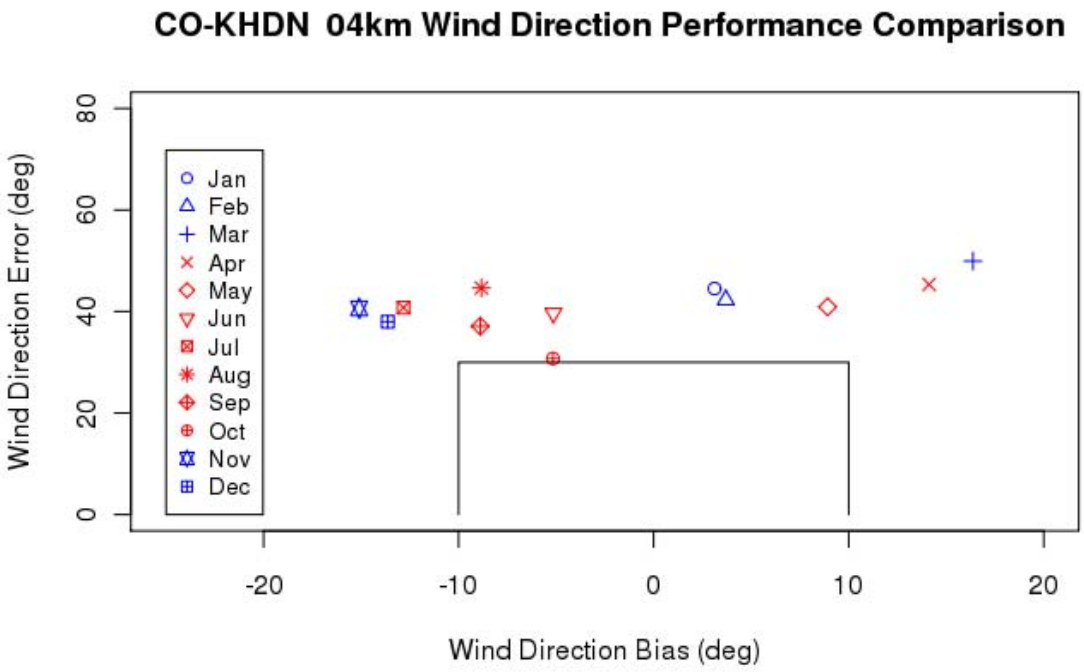


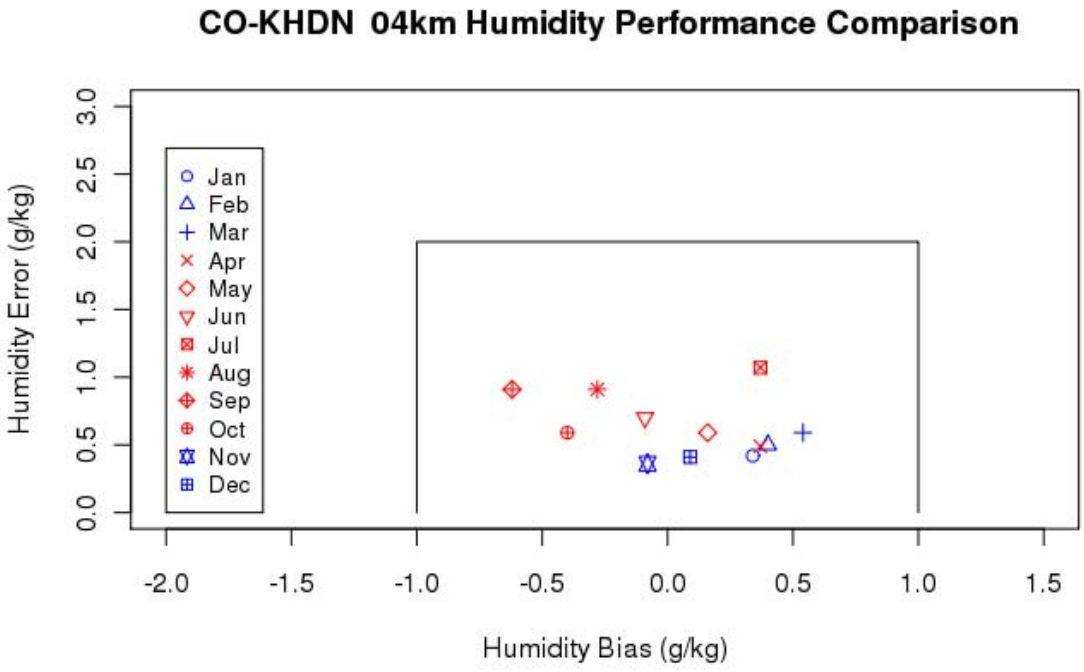
CO-KGXY 04km Temperature Performance Comparison



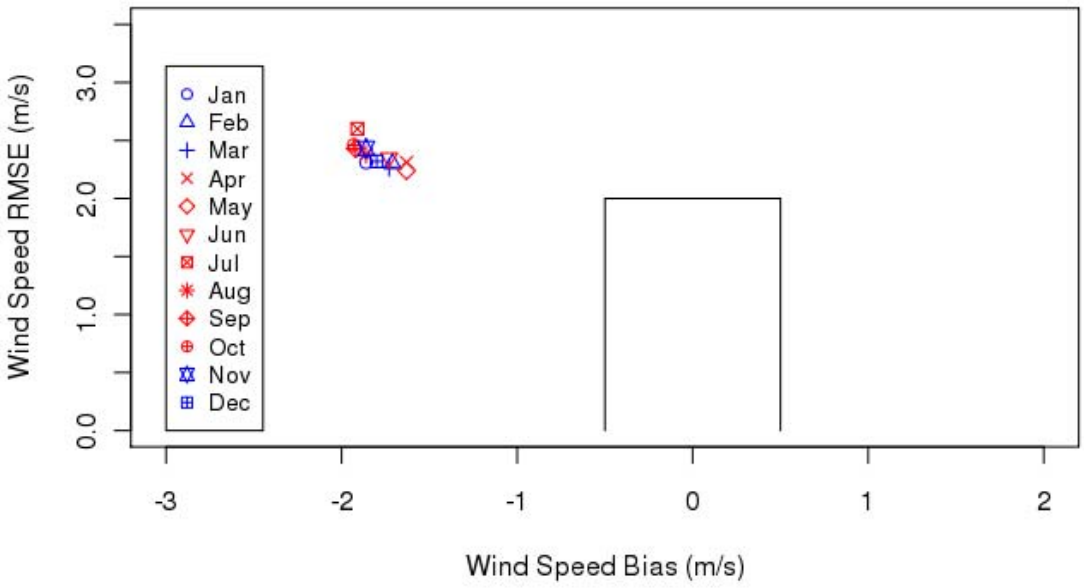
CO-KGXY 04km Wind Performance Comparison



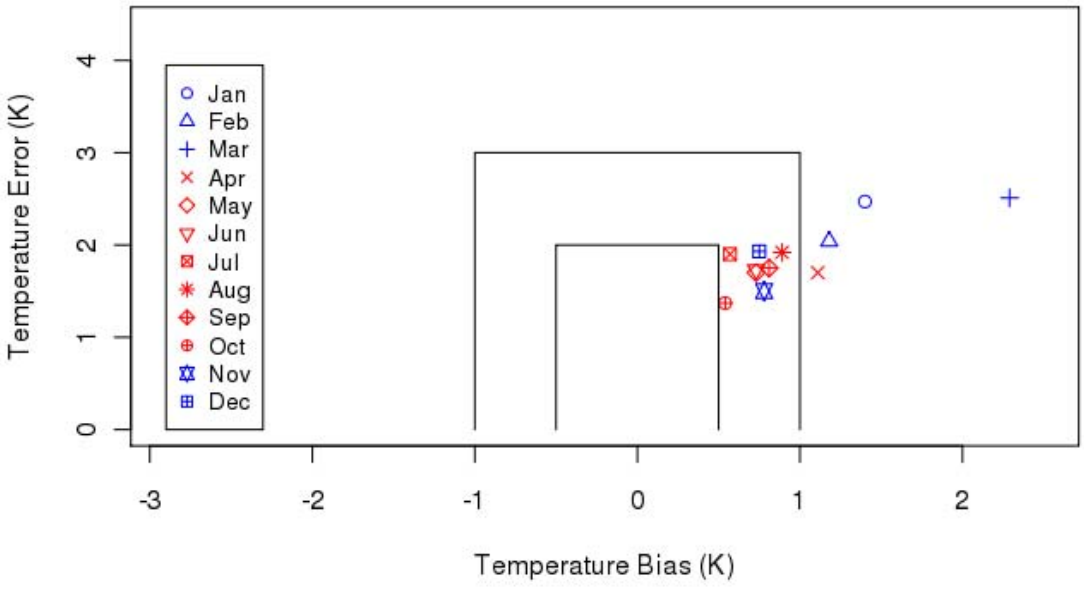

CO-KHDN 04km Wind Direction Performance Comparison
Wind Direction Error (deg)
0
20
40
60
80
-20
-10
0
10
20
Wind Direction Bias (deg)
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec


CO-KHDN 04km Humidity Performance Comparison
Humidity Error (g/kg)
0.0
0.5
1.0
1.5
2.0
2.5
3.0
-2.0
-1.5
-1.0
-0.5
0.0
0.5
1.0
1.5
Humidity Bias (g/kg)
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec

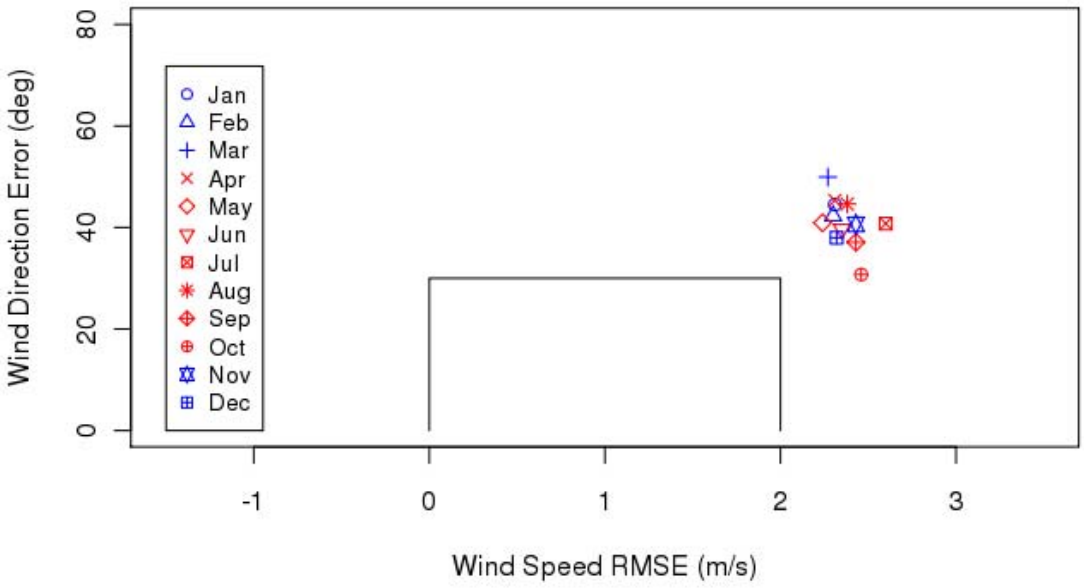
CO-KHDN 04km Wind Speed Performance Comparison



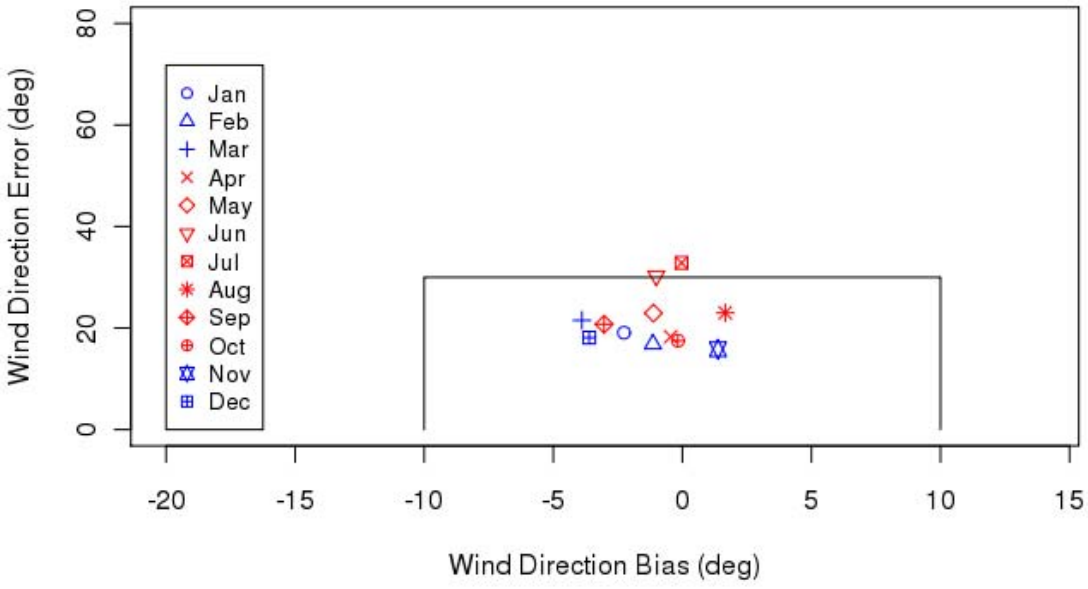
CO-KHDN 04km Temperature Performance Comparison



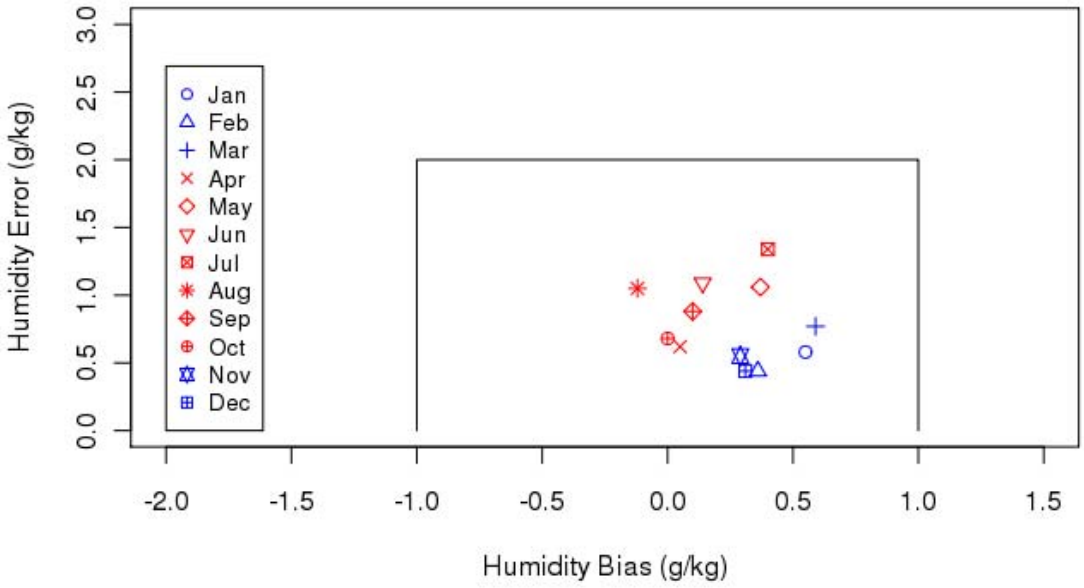
CO-KHDN 04km Wind Performance Comparison



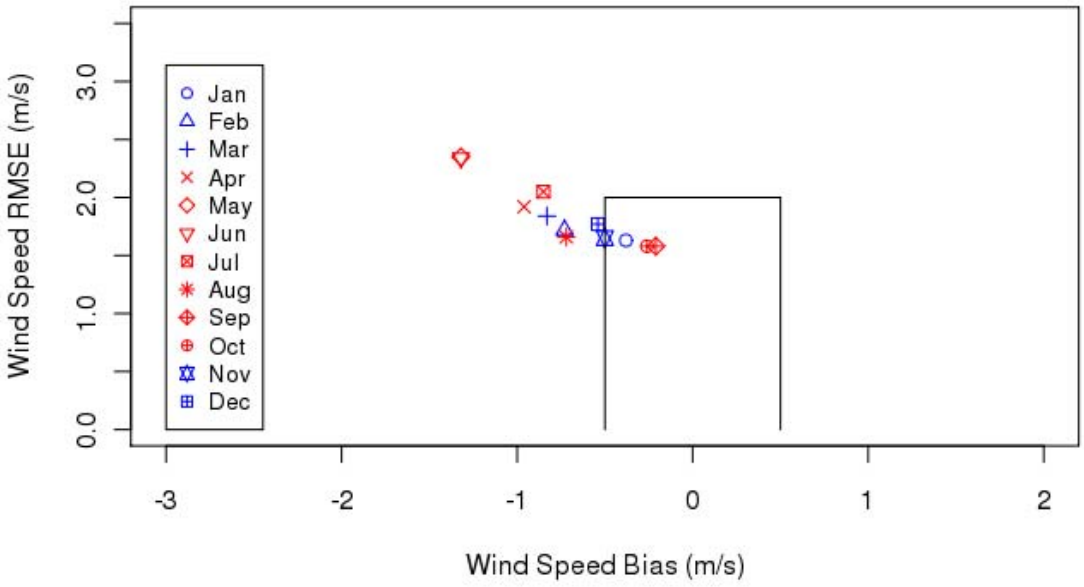
CO-KITR 04km Wind Direction Performance Comparison



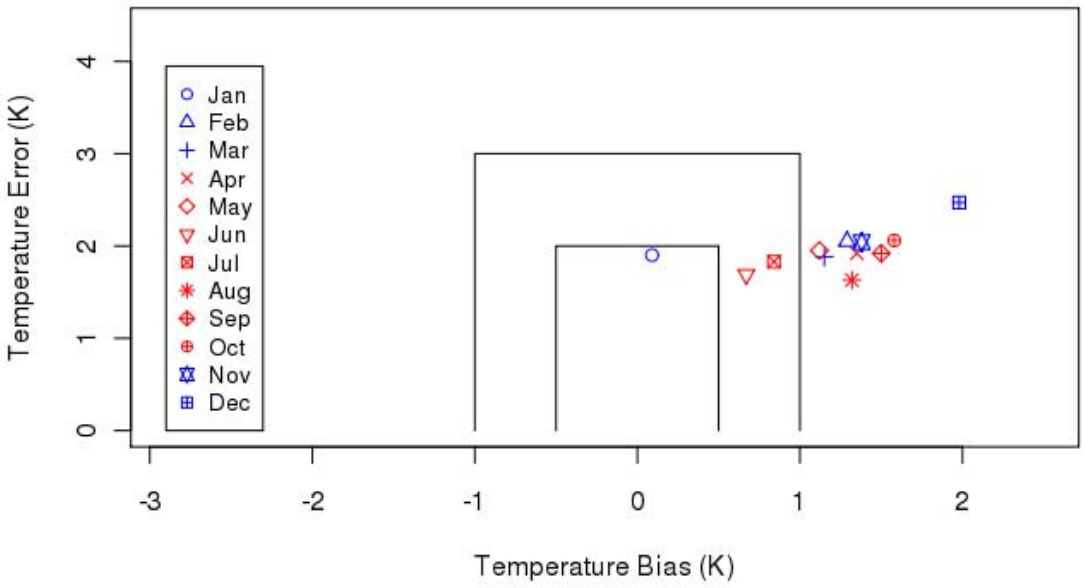
CO-KITR 04km Humidity Performance Comparison



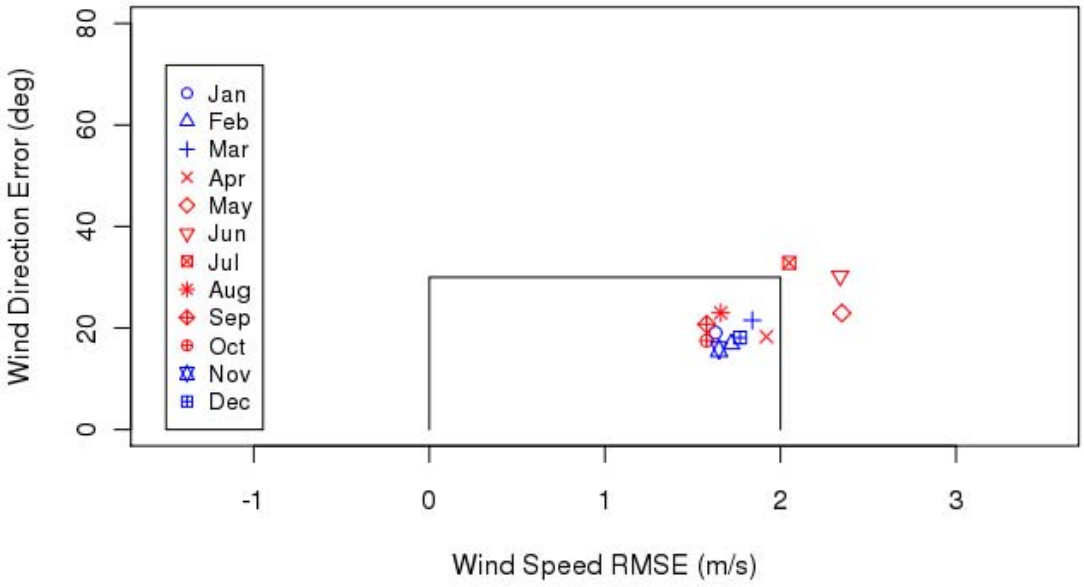
CO-KITR 04km Wind Speed Performance Comparison



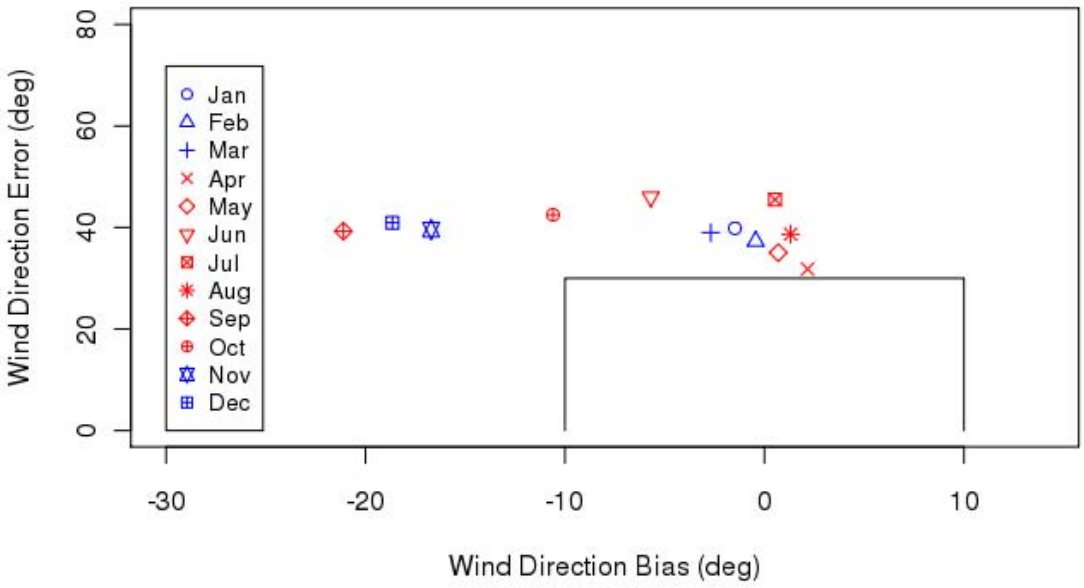
CO-KITR 04km Temperature Performance Comparison



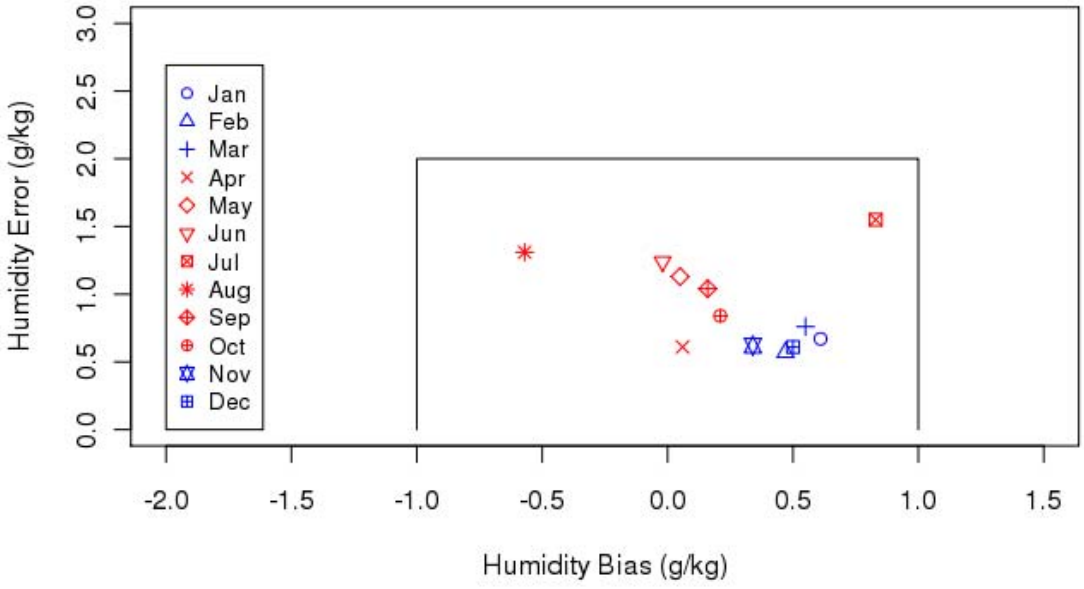
CO-KITR 04km Wind Performance Comparison



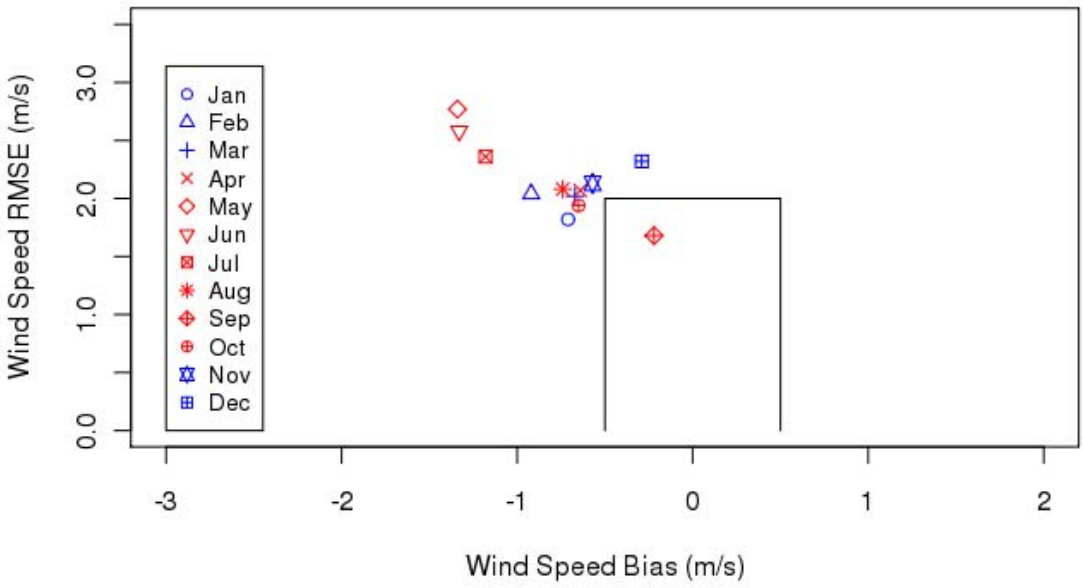
CO-KLAA 04km Wind Direction Performance Comparison



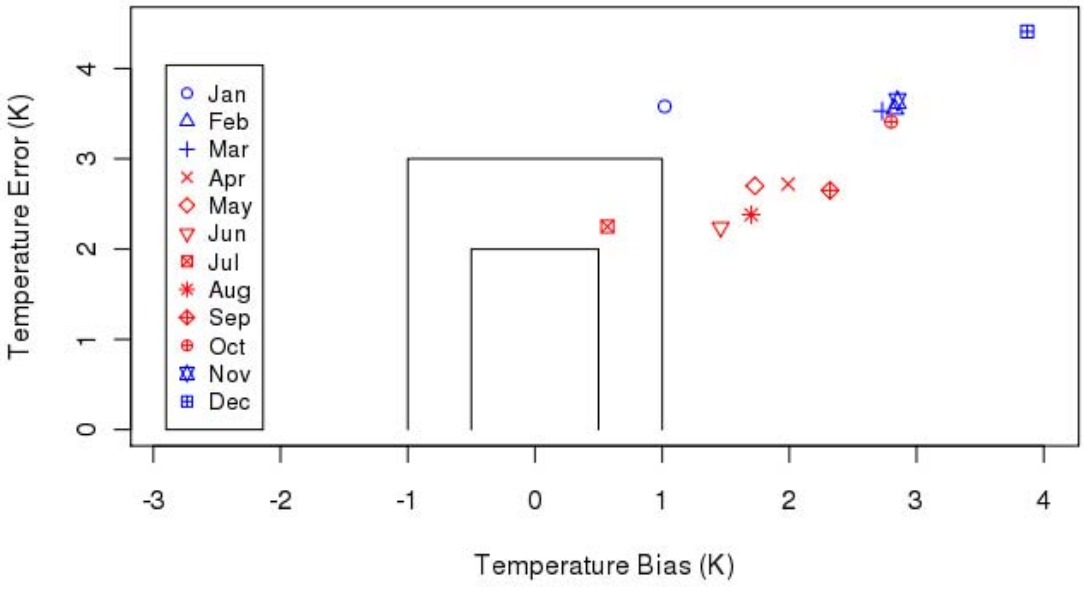
CO-KLAA 04km Humidity Performance Comparison



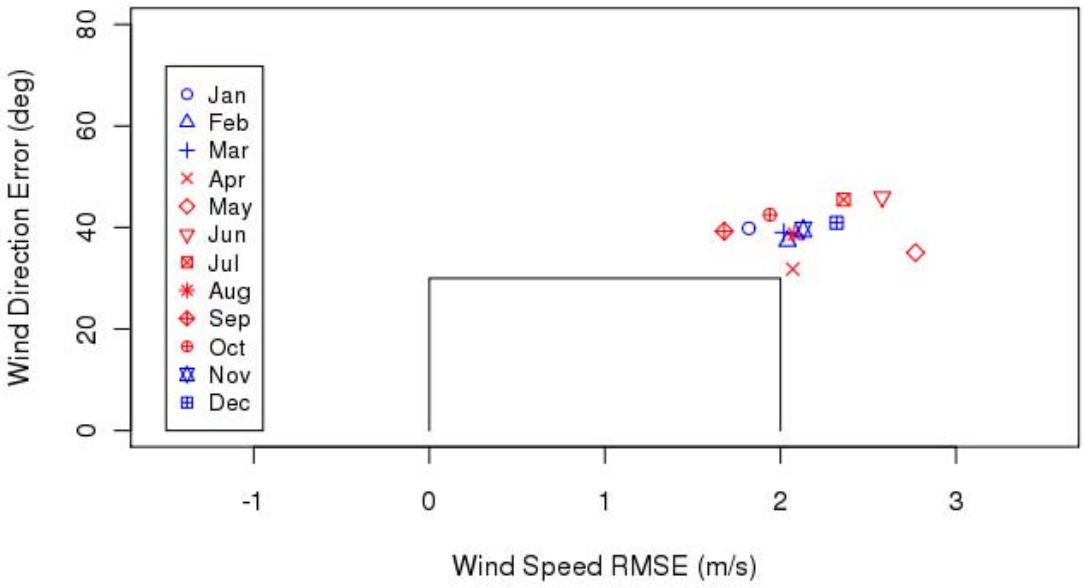
CO-KLAA 04km Wind Speed Performance Comparison



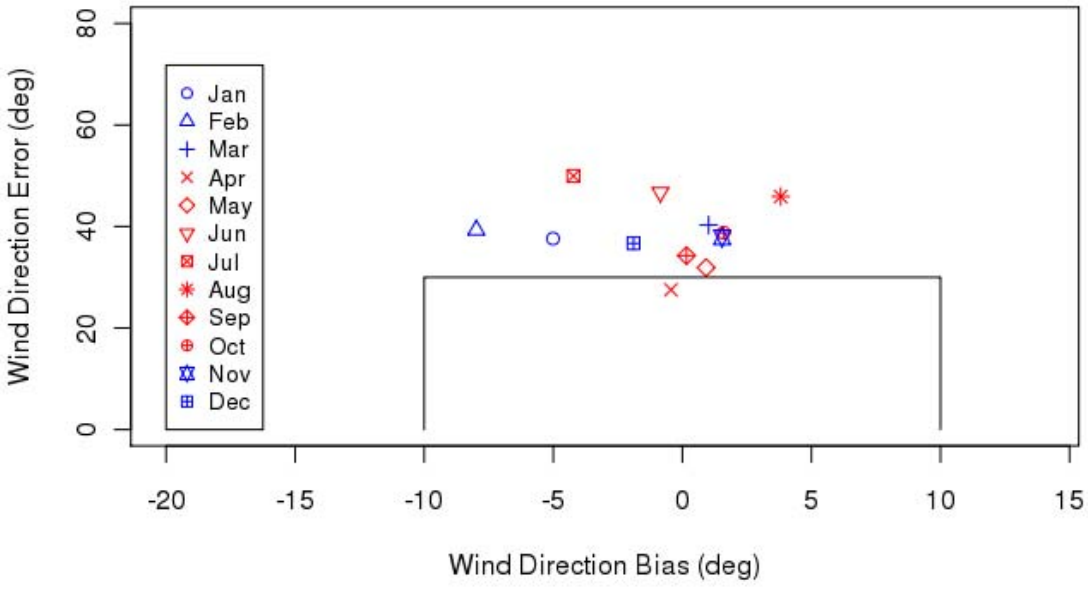
CO-KLAA 04km Temperature Performance Comparison



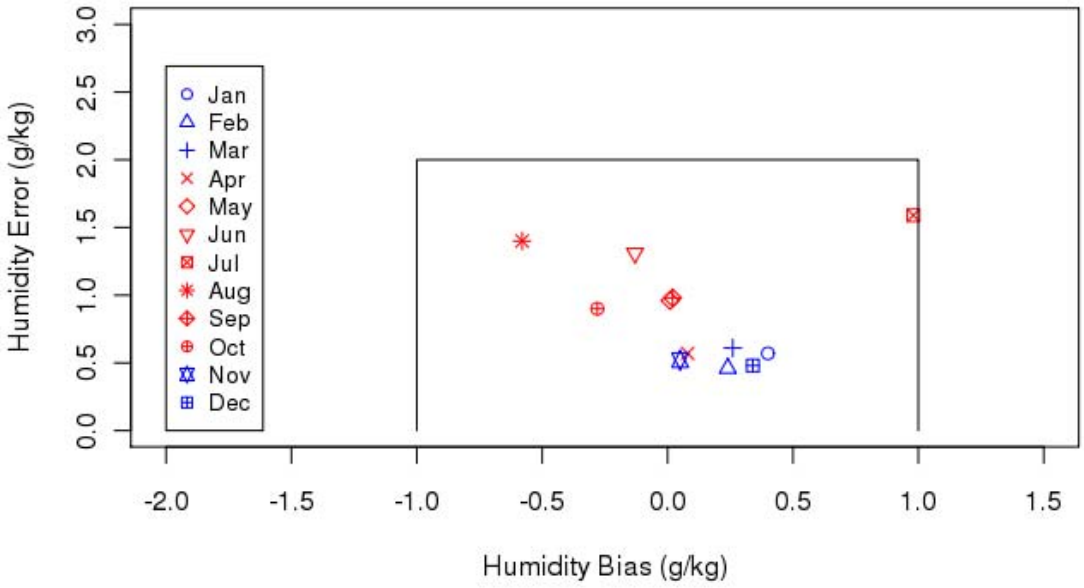
CO-KLAA 04km Wind Performance Comparison



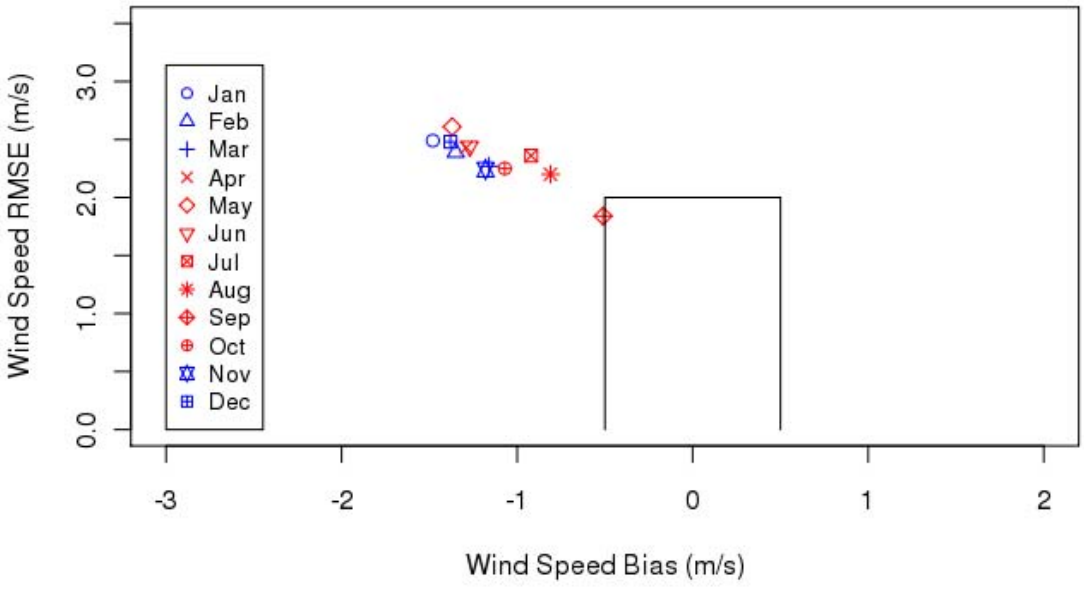
CO-KLHX 04km Wind Direction Performance Comparison



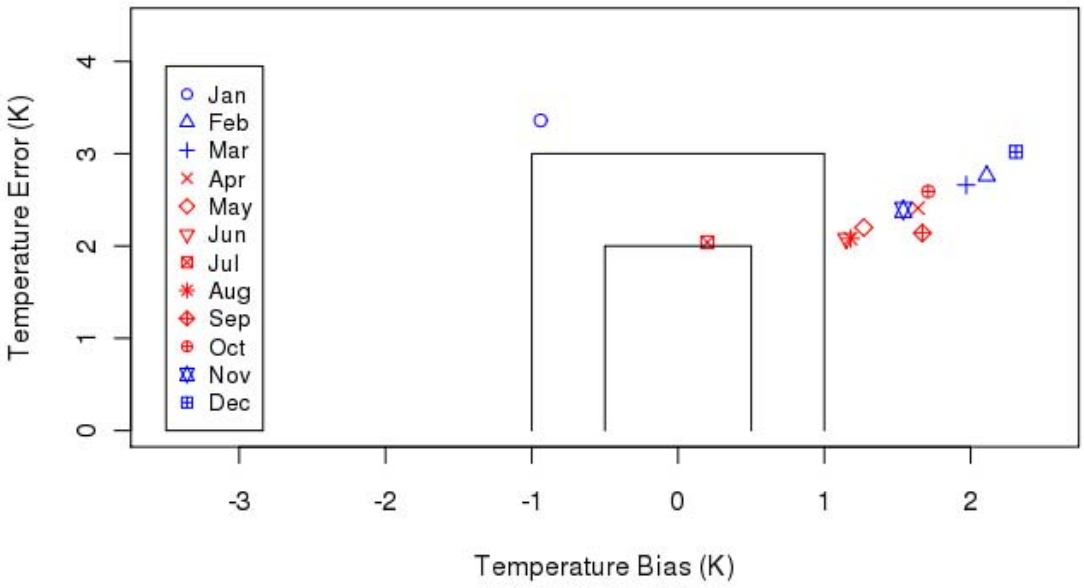
CO-KLHX 04km Humidity Performance Comparison



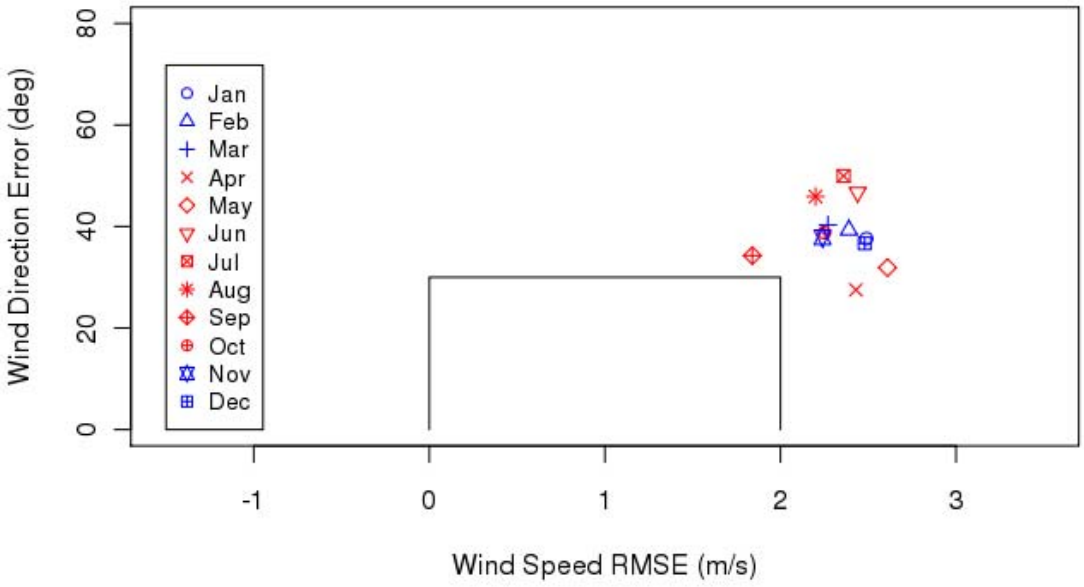
CO-KLHX 04km Wind Speed Performance Comparison

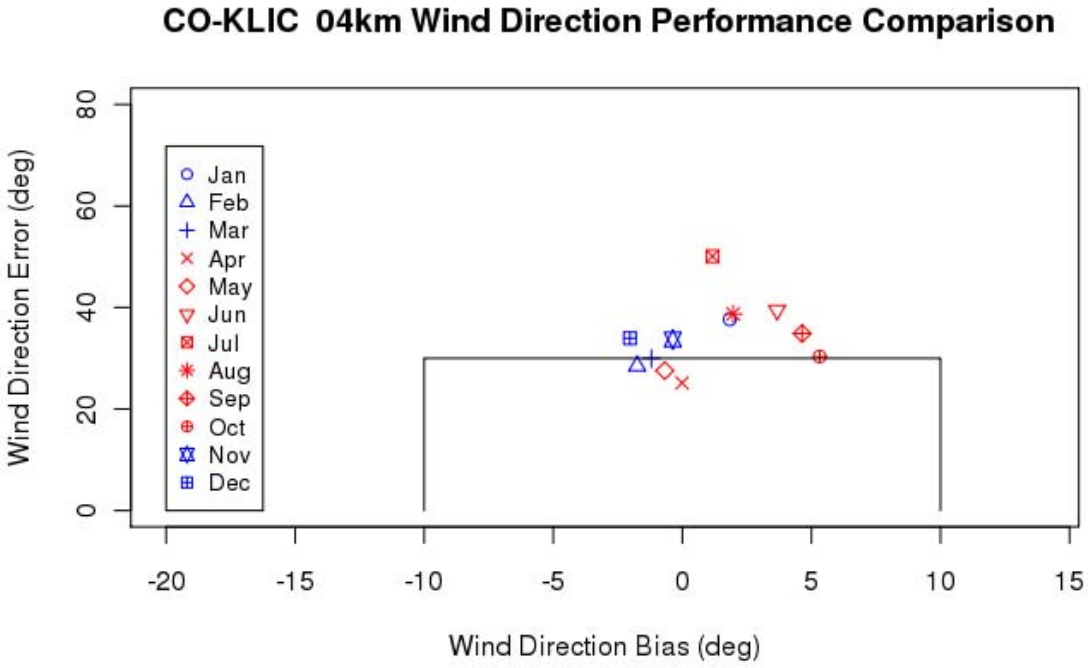


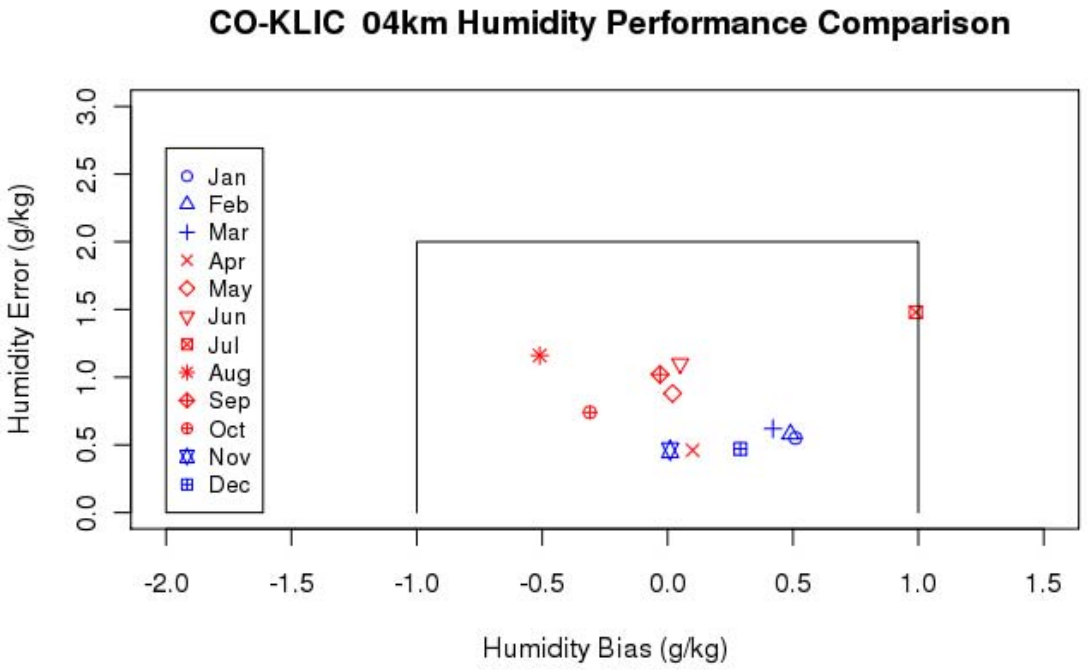
CO-KLHX 04km Temperature Performance Comparison



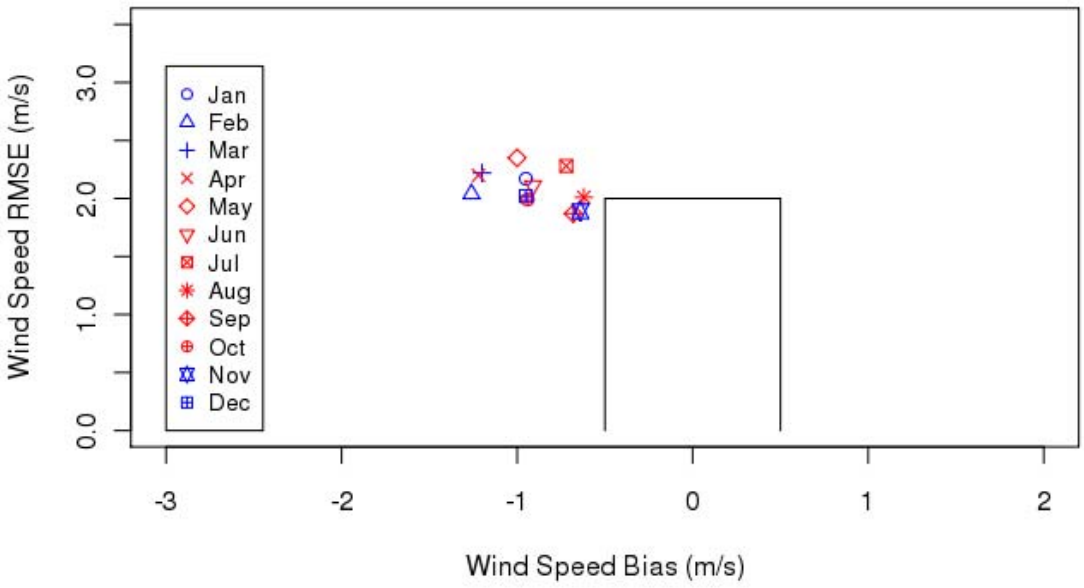
CO-KLHX 04km Wind Performance Comparison



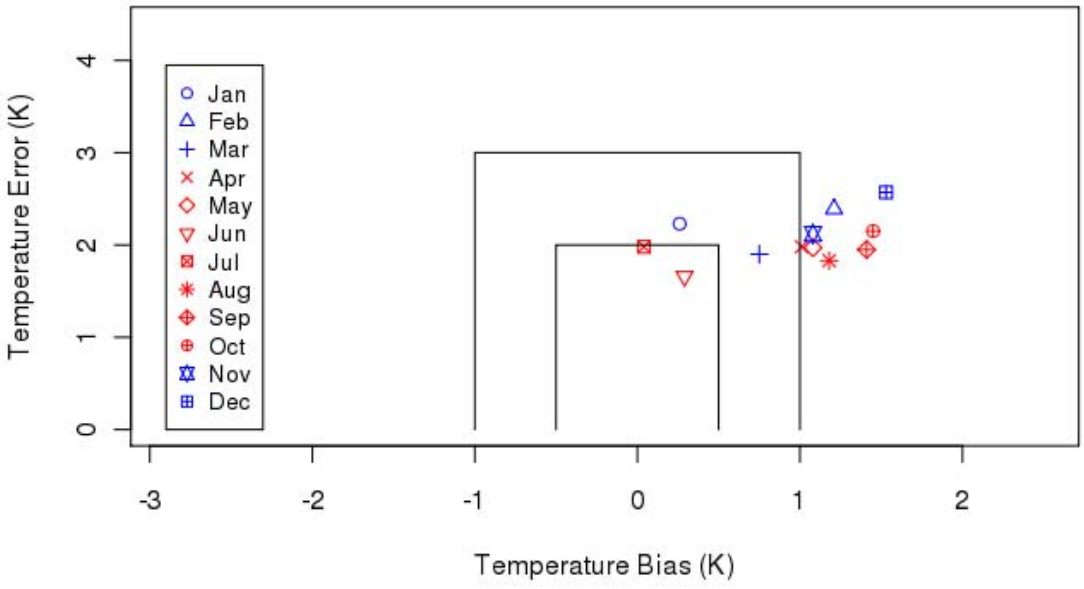

CO-KLIC 04km Wind Direction Performance Comparison
Wind Direction Error (deg)
0
20
40
60
80
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
-20
-15
-10
-5
0
5
10
15
Wind Direction Bias (deg)


CO-KLIC 04km Humidity Performance Comparison
Humidity Error (g/kg)
0.0
0.5
1.0
1.5
2.0
2.5
3.0
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
-2.0
-1.5
-1.0
-0.5
0.0
0.5
1.0
1.5
Humidity Bias (g/kg)

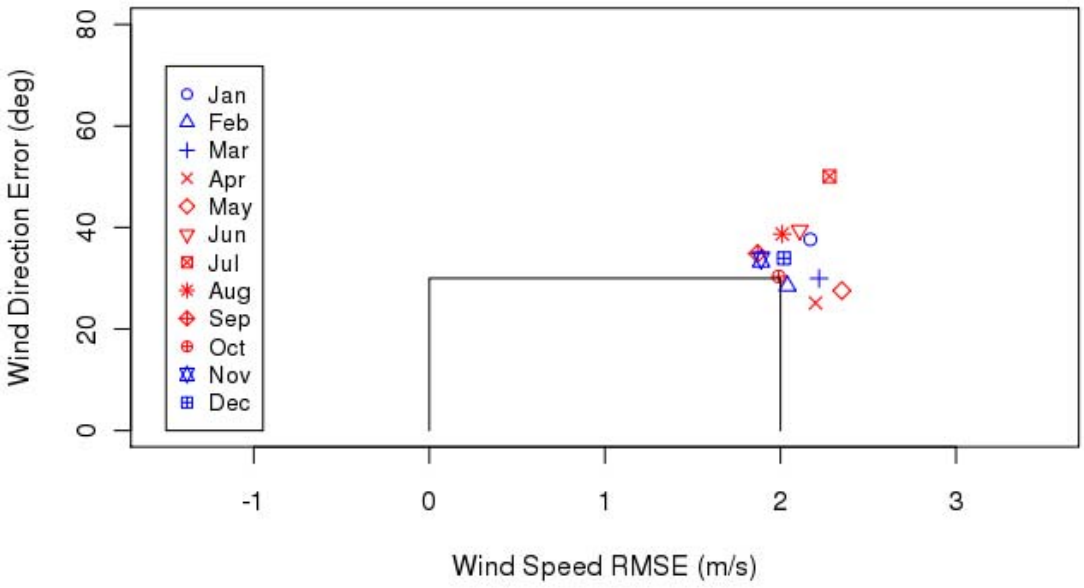
CO-KLIC 04km Wind Speed Performance Comparison



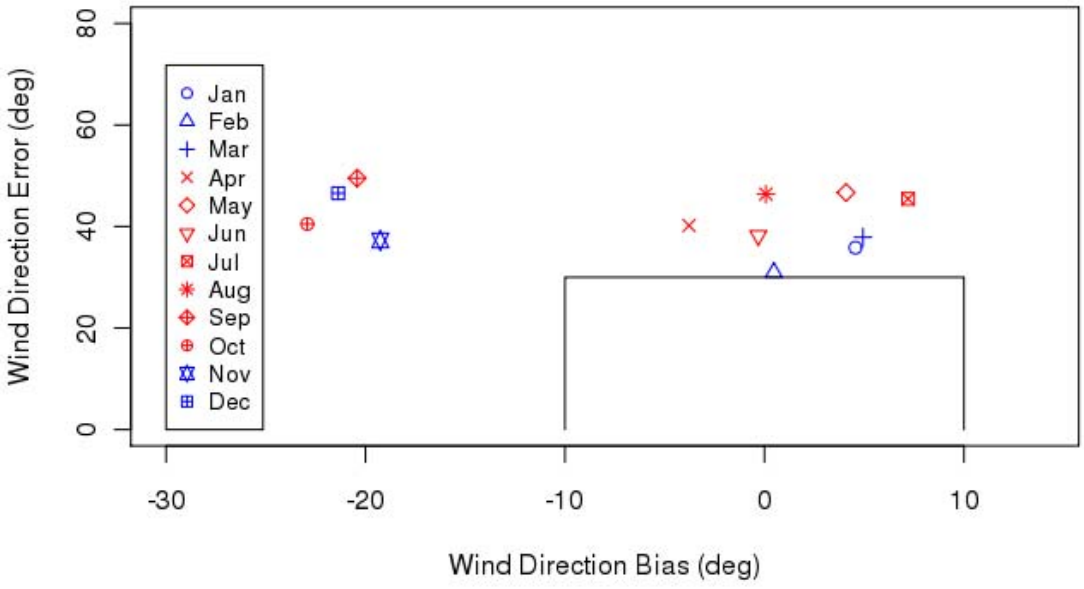
CO-KLIC 04km Temperature Performance Comparison



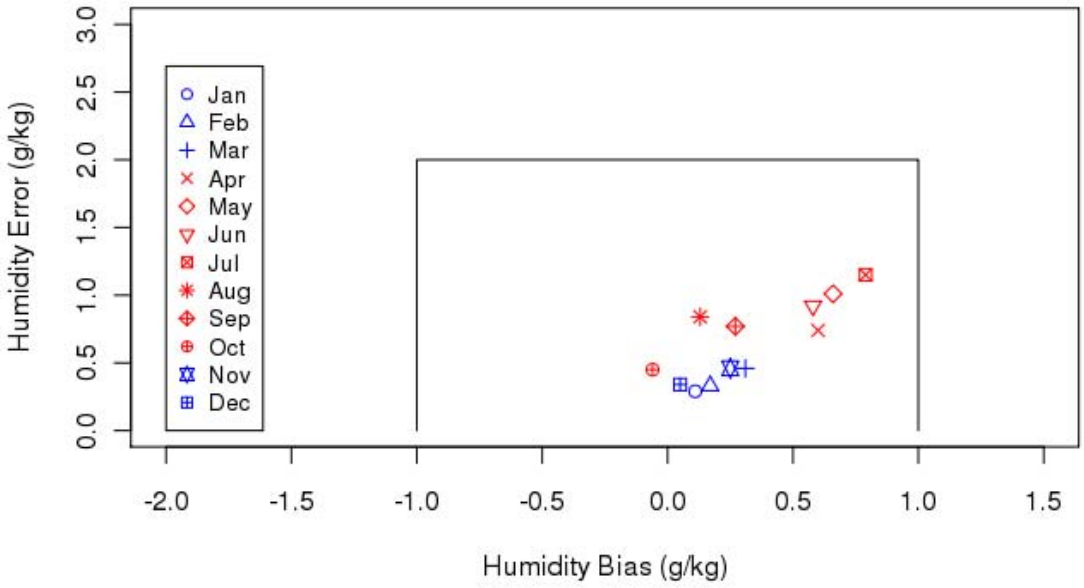
CO-KLIC 04km Wind Performance Comparison



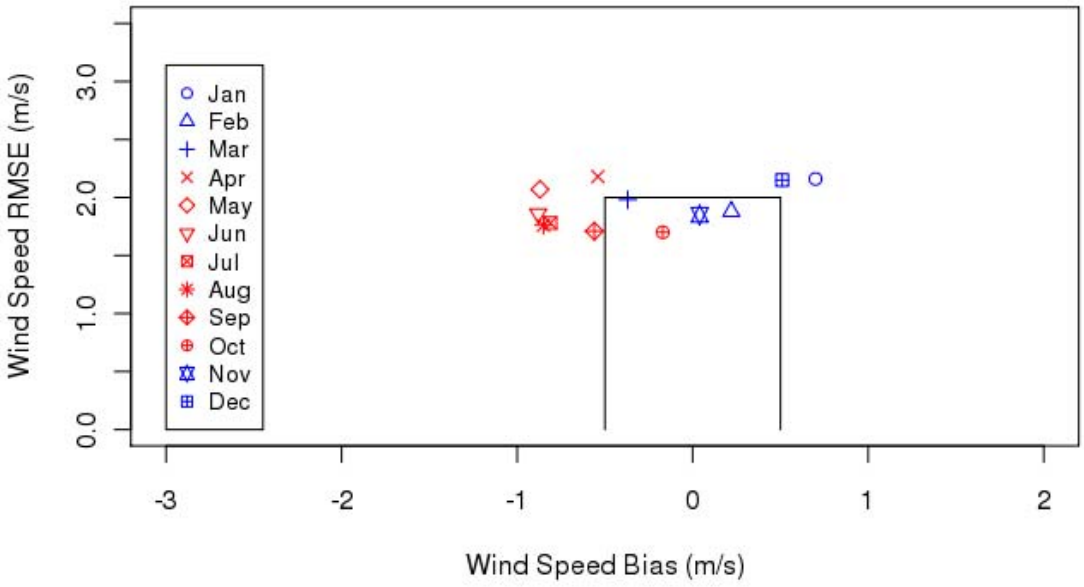
CO-KLXV 04km Wind Direction Performance Comparison



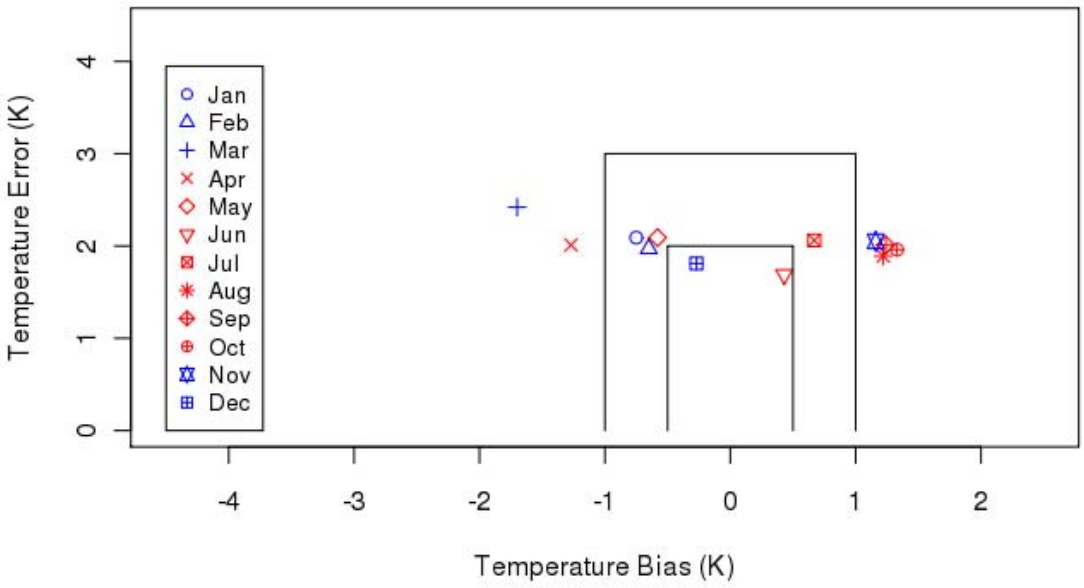
CO-KLXV 04km Humidity Performance Comparison



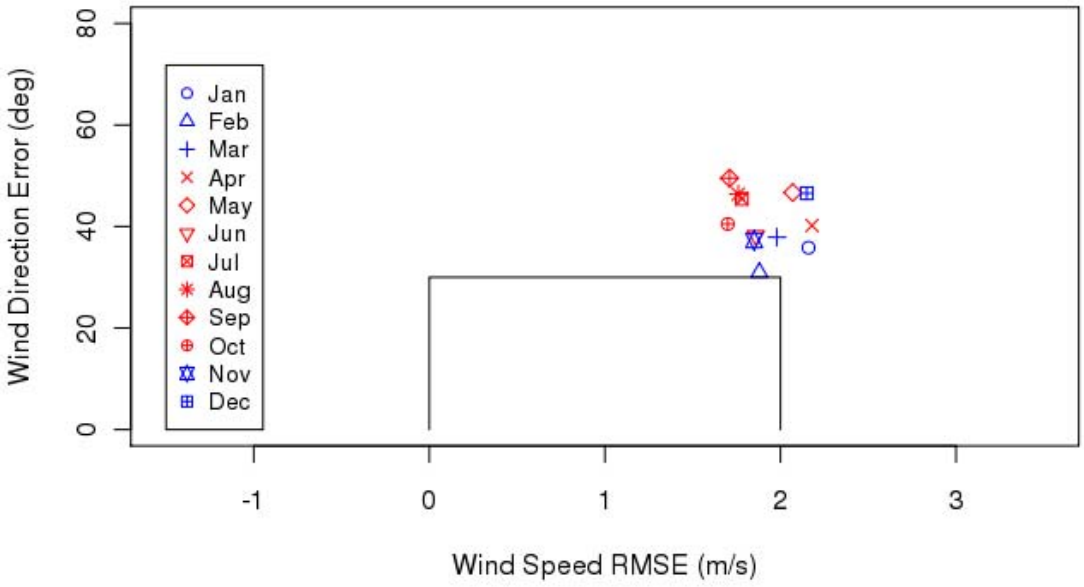
CO-KLXV 04km Wind Speed Performance Comparison



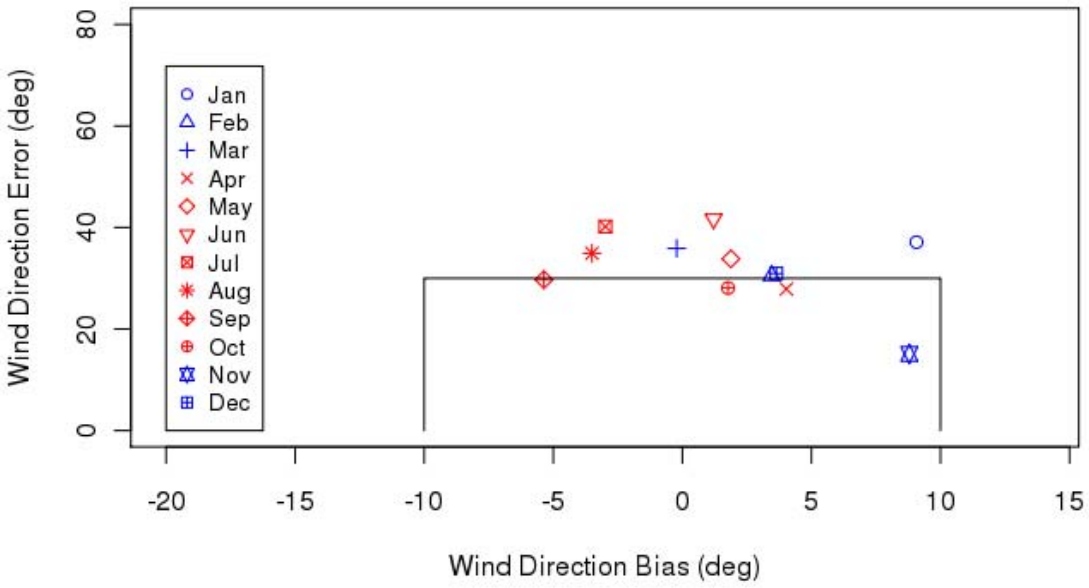
CO-KLXV 04km Temperature Performance Comparison



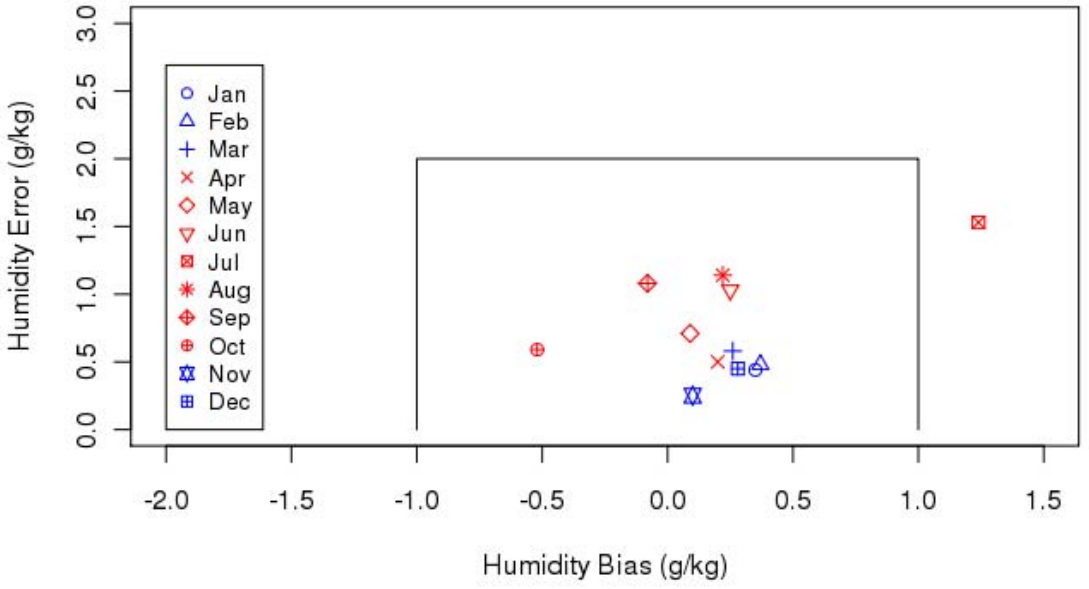
CO-KLXV 04km Wind Performance Comparison



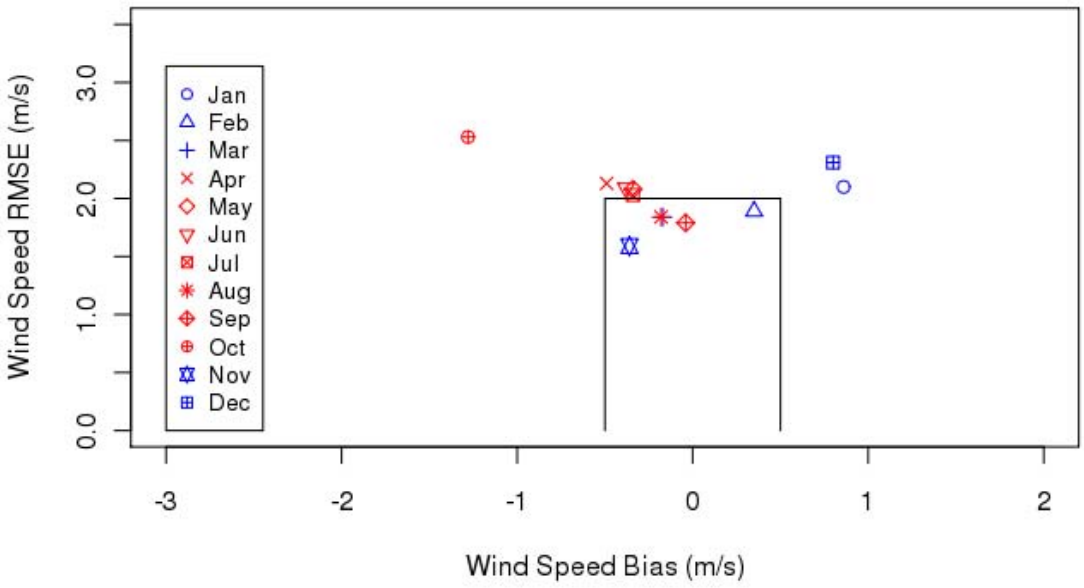
CO-KMNH 04km Wind Direction Performance Comparison



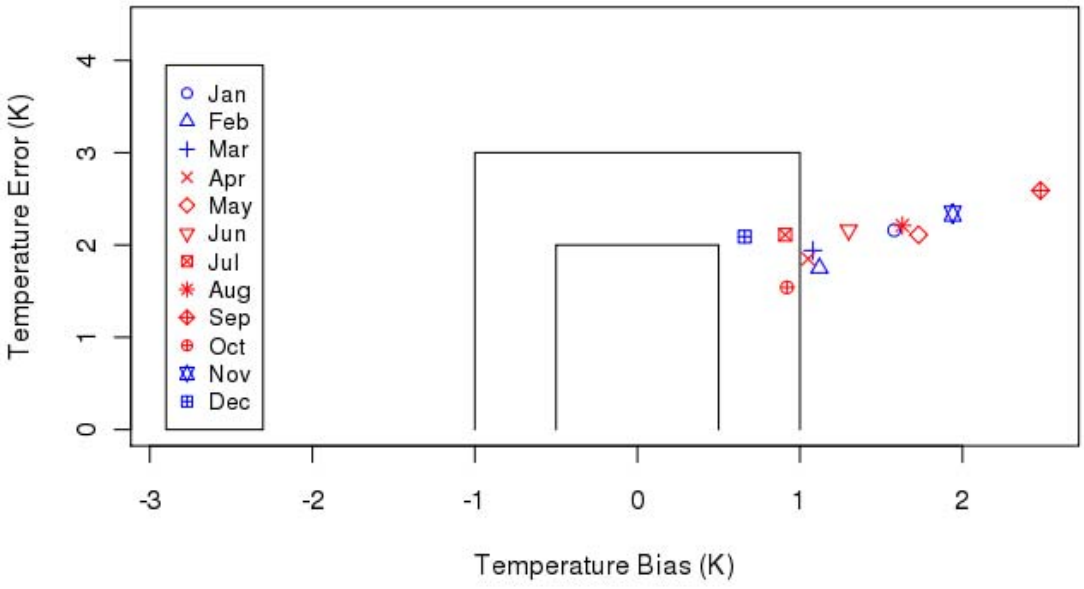
CO-KMNH 04km Humidity Performance Comparison



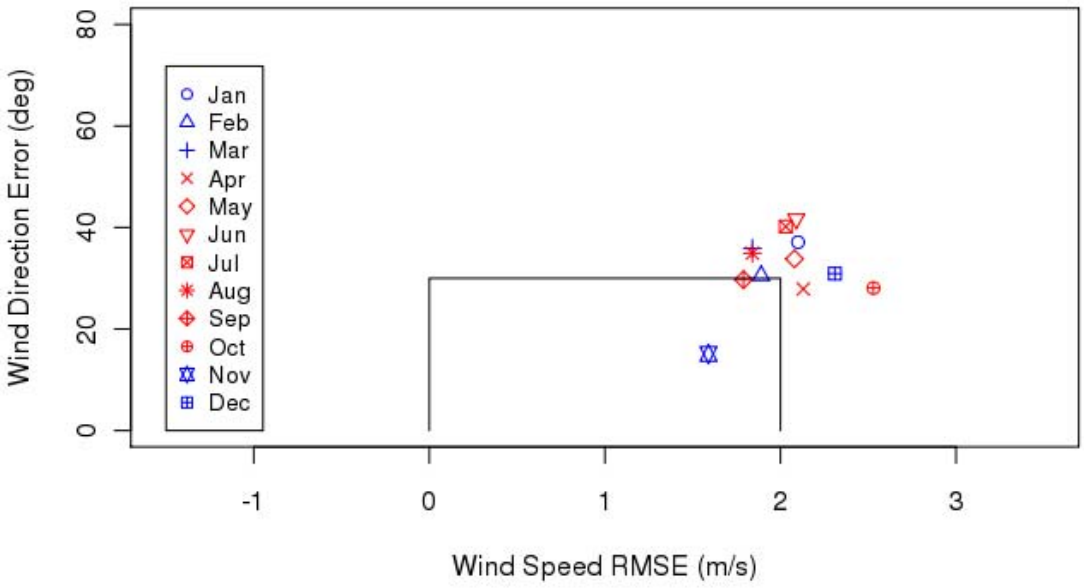
CO-KMNH 04km Wind Speed Performance Comparison



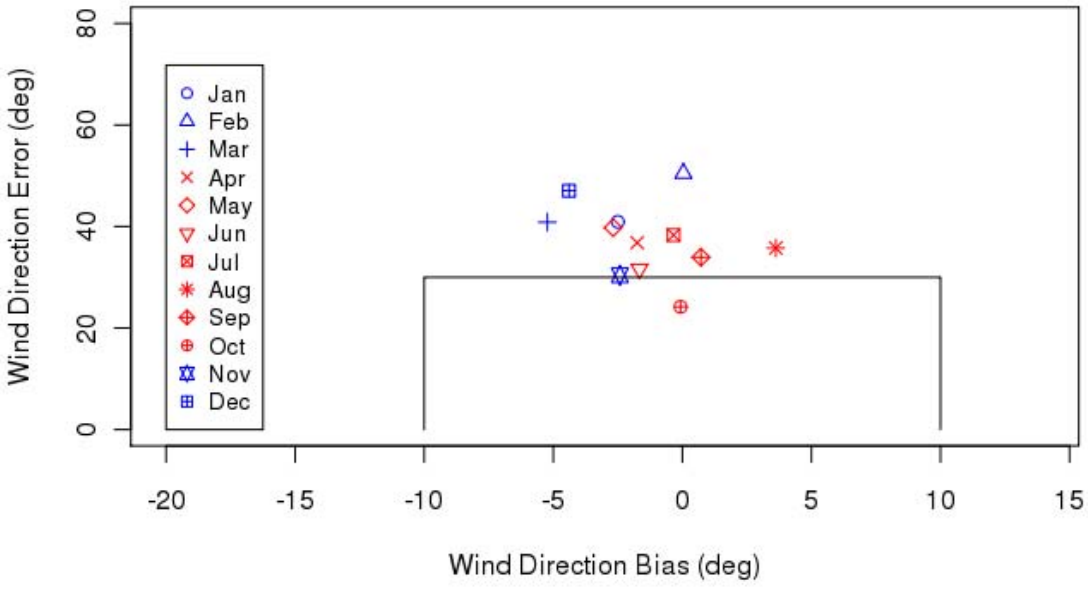
CO-KMNH 04km Temperature Performance Comparison



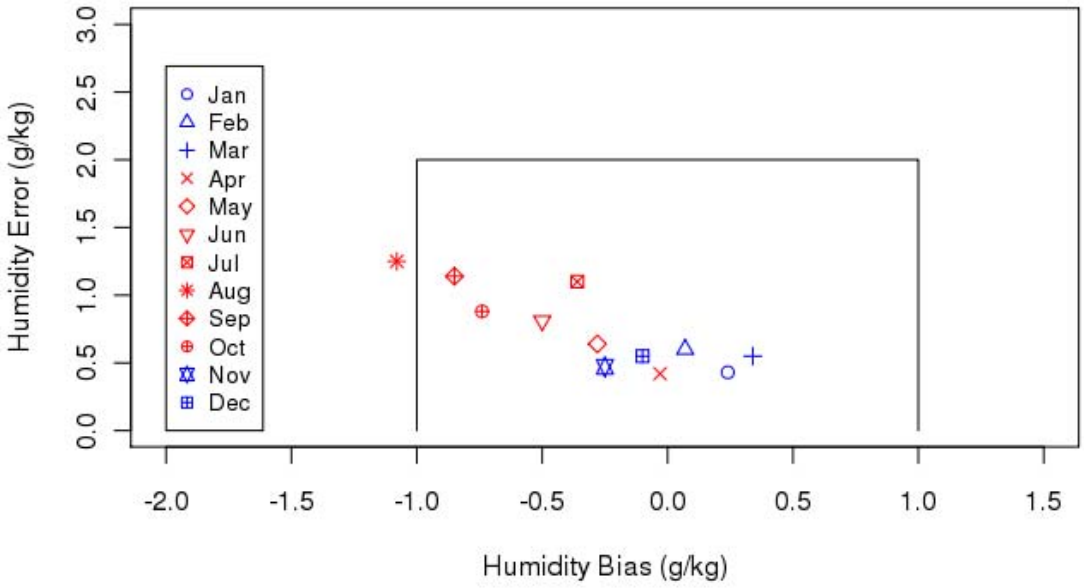
CO-KMNH 04km Wind Performance Comparison



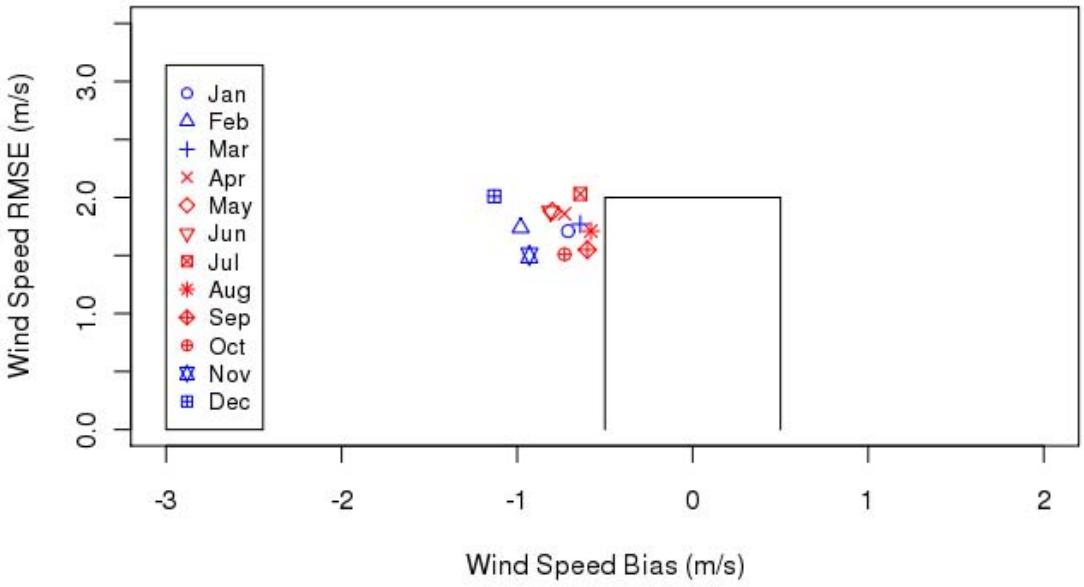
CO-KMTJ 04km Wind Direction Performance Comparison



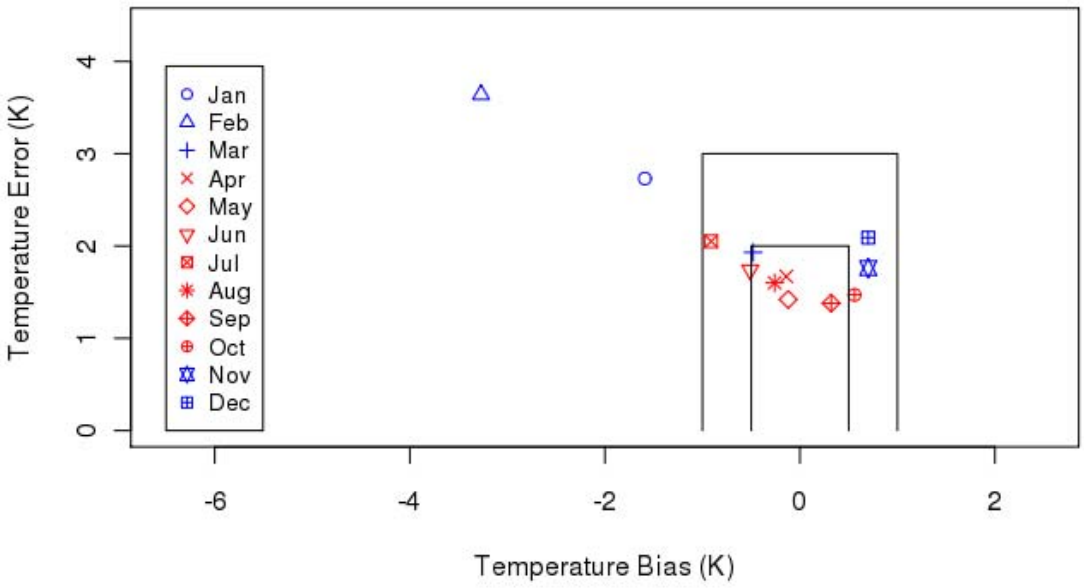
CO-KMTJ 04km Humidity Performance Comparison



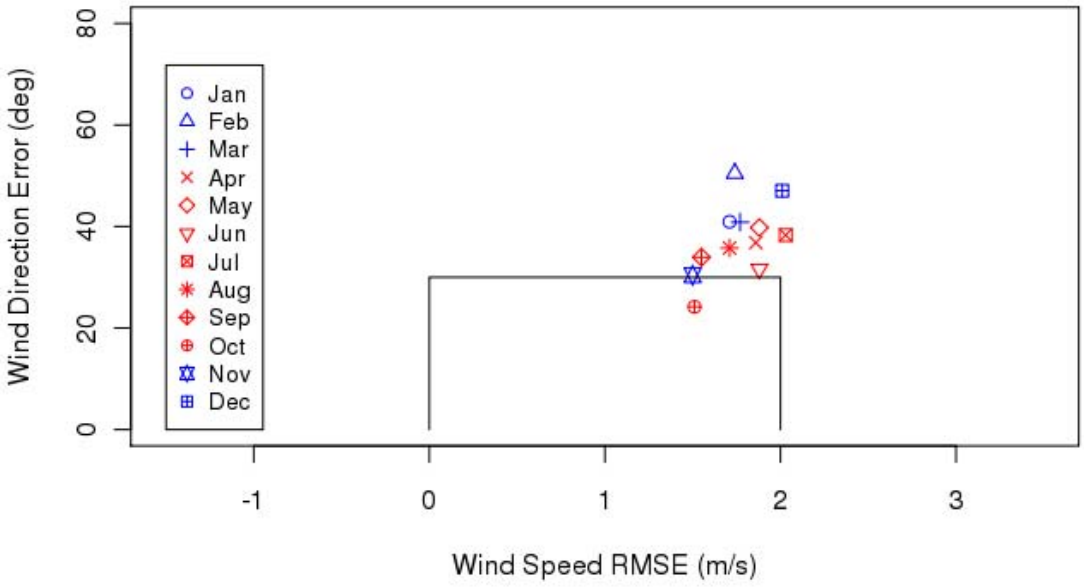
CO-KMTJ 04km Wind Speed Performance Comparison



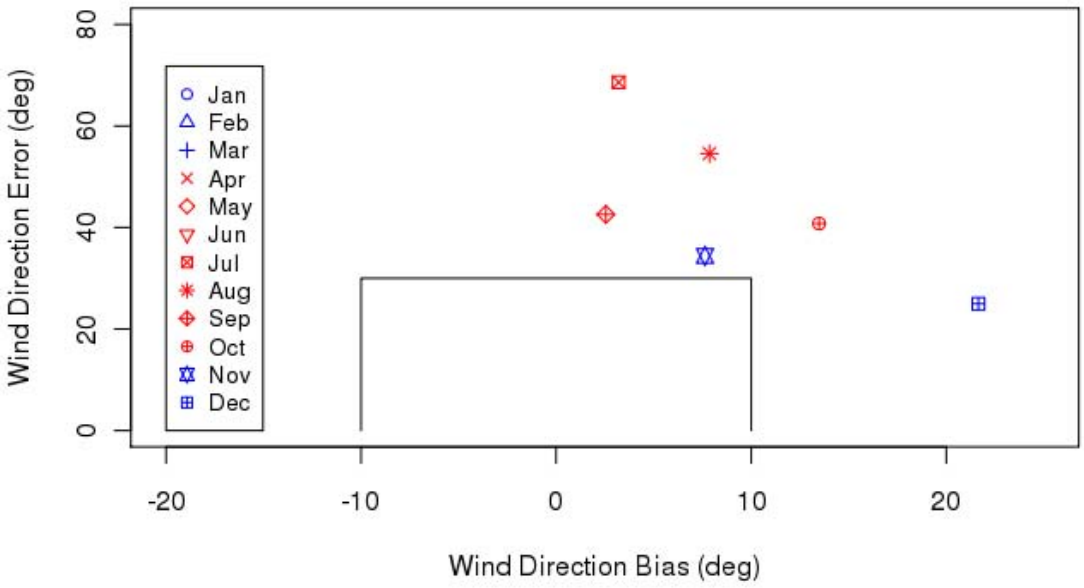
CO-KMTJ 04km Temperature Performance Comparison



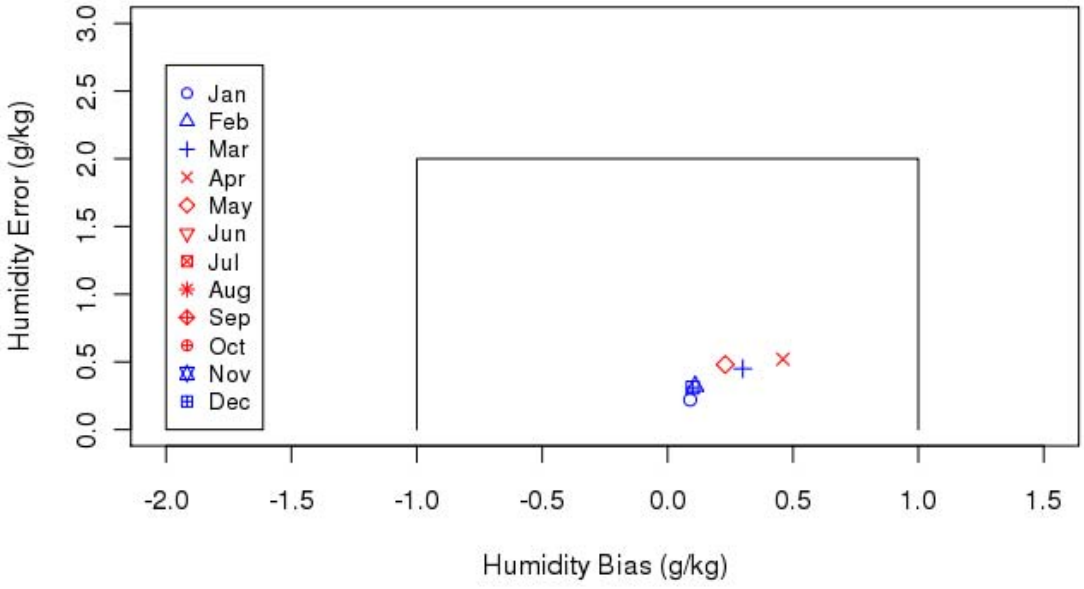
CO-KMTJ 04km Wind Performance Comparison



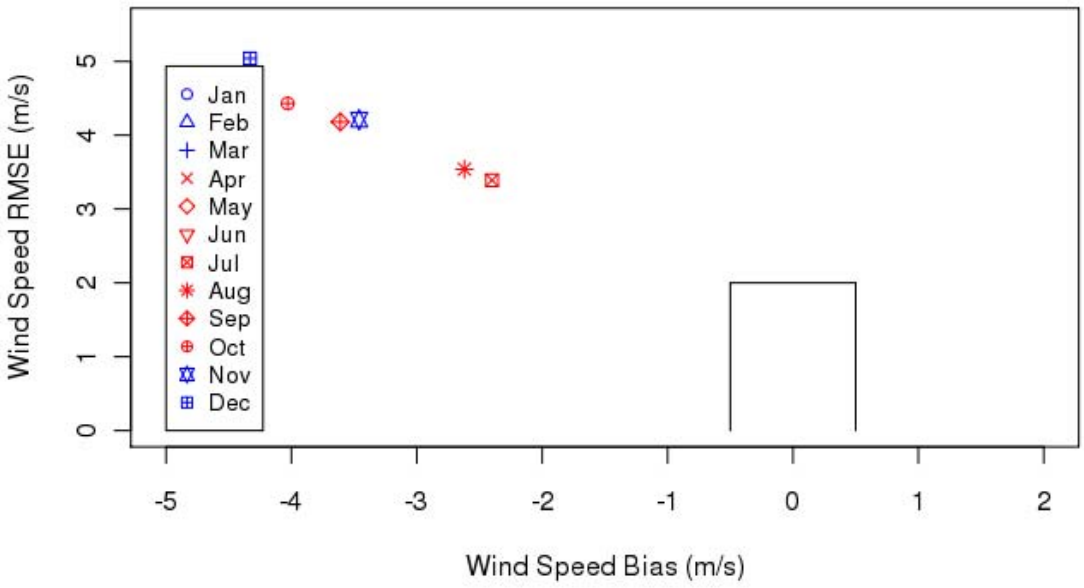
CO-KMYP 04km Wind Direction Performance Comparison



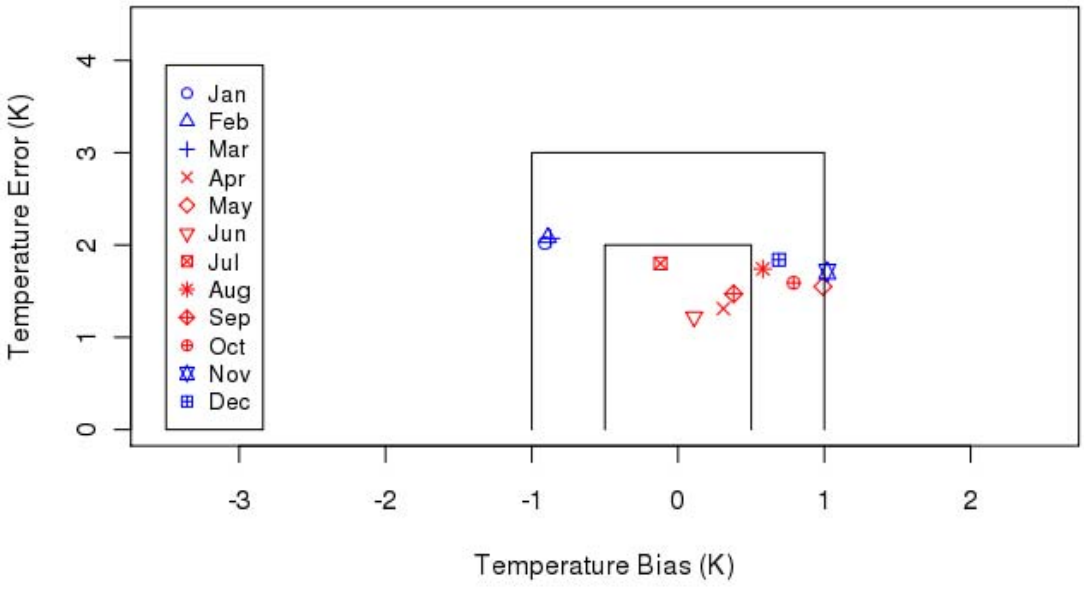
CO-KMYP 04km Humidity Performance Comparison



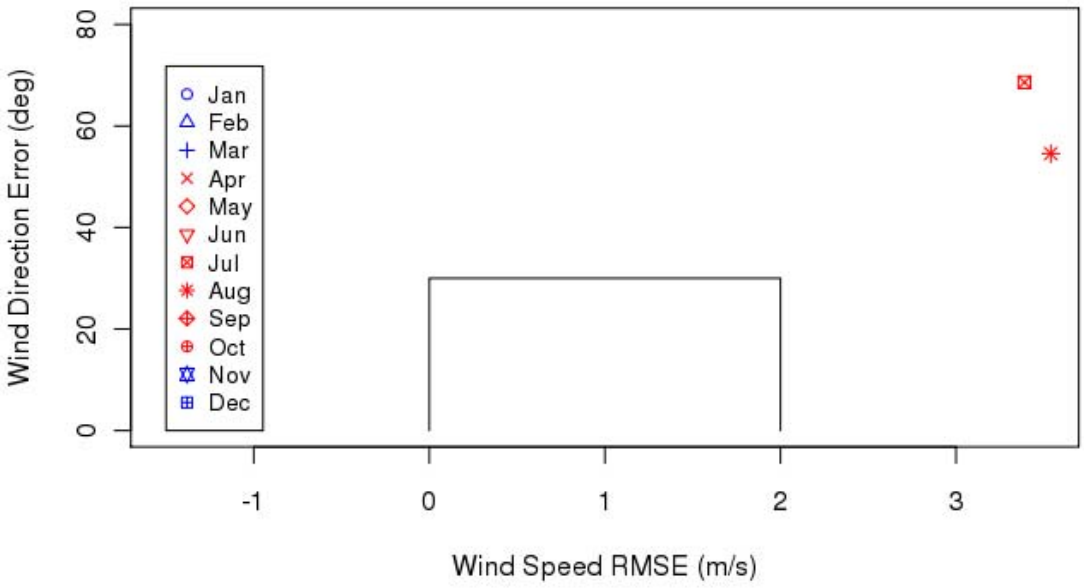
CO-KMYP 04km Wind Speed Performance Comparison



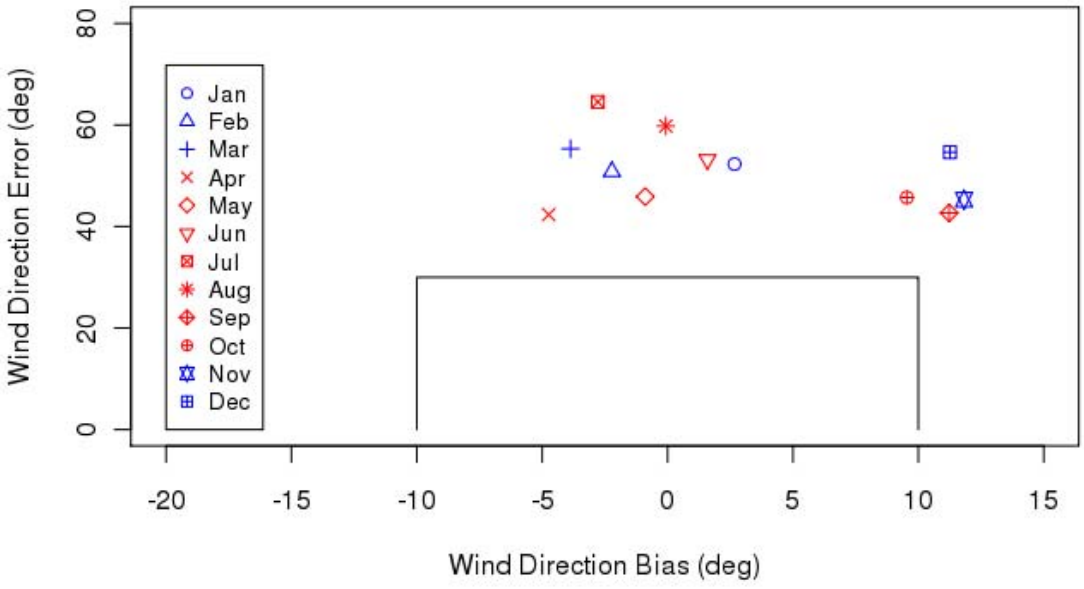
CO-KMYP 04km Temperature Performance Comparison



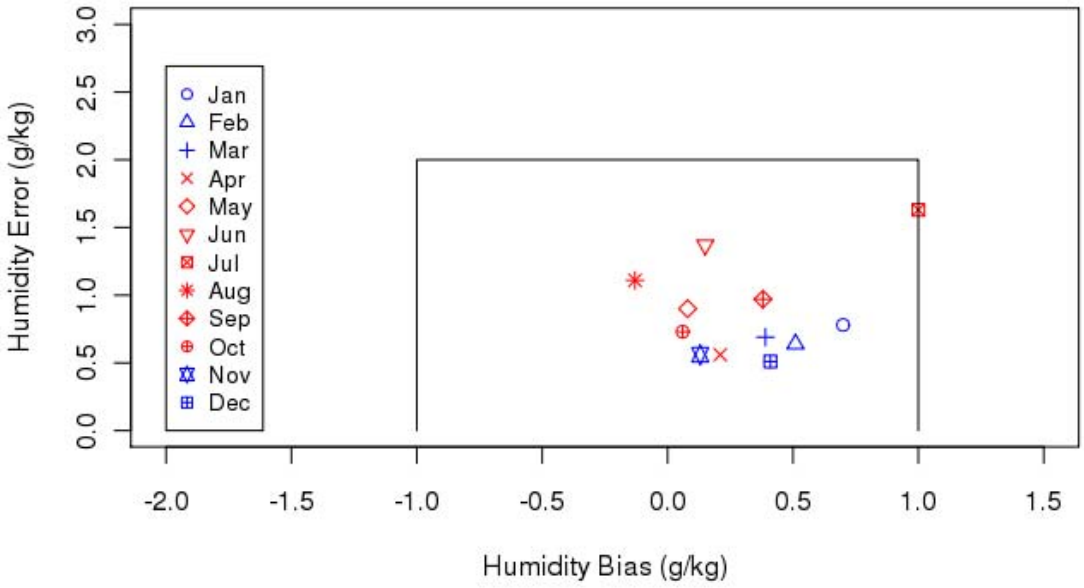
CO-KMYP 04km Wind Performance Comparison



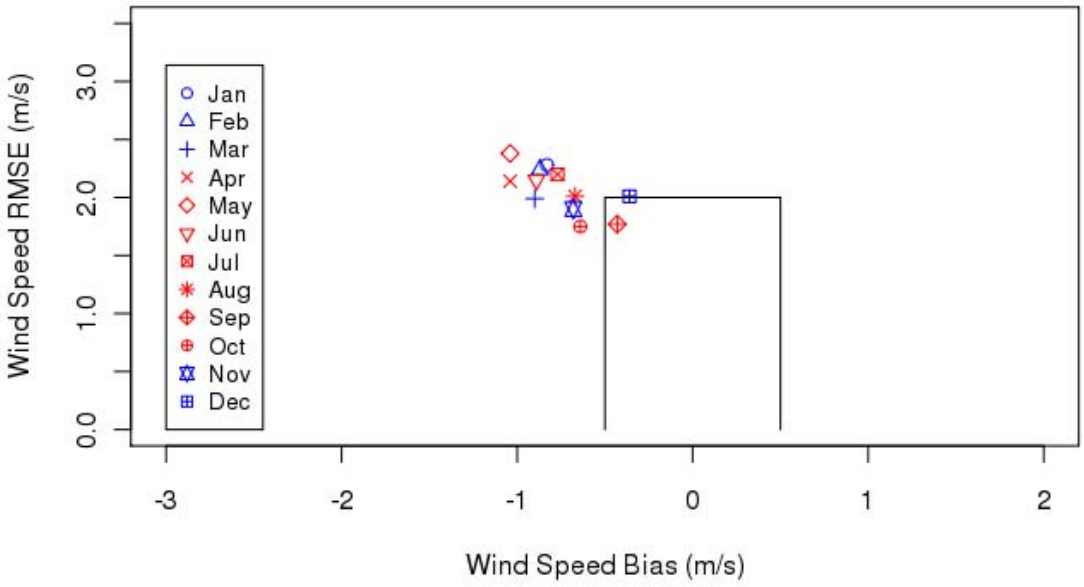
CO-KPUB 04km Wind Direction Performance Comparison



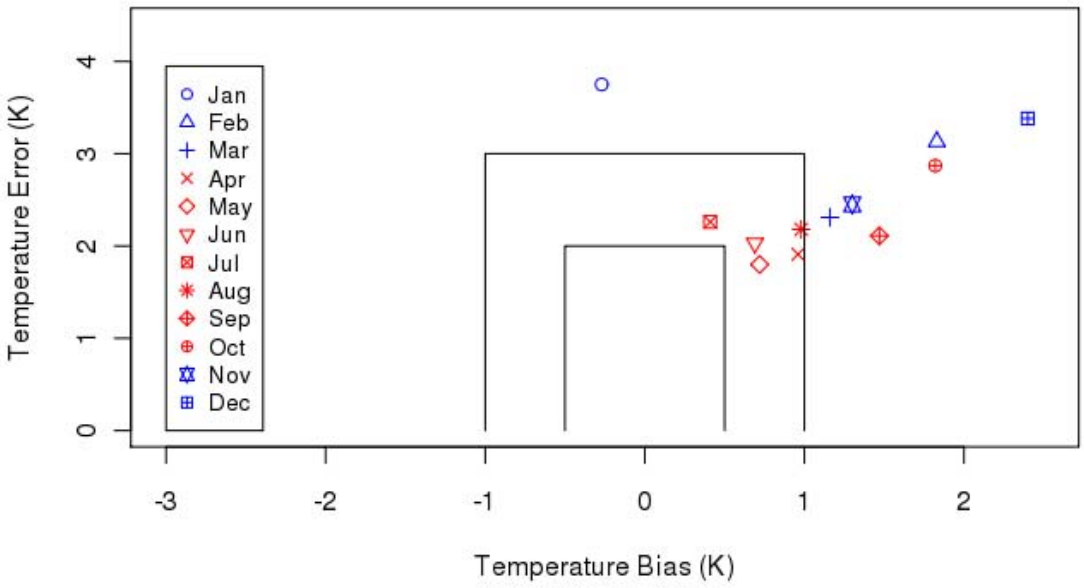
CO-KPUB 04km Humidity Performance Comparison



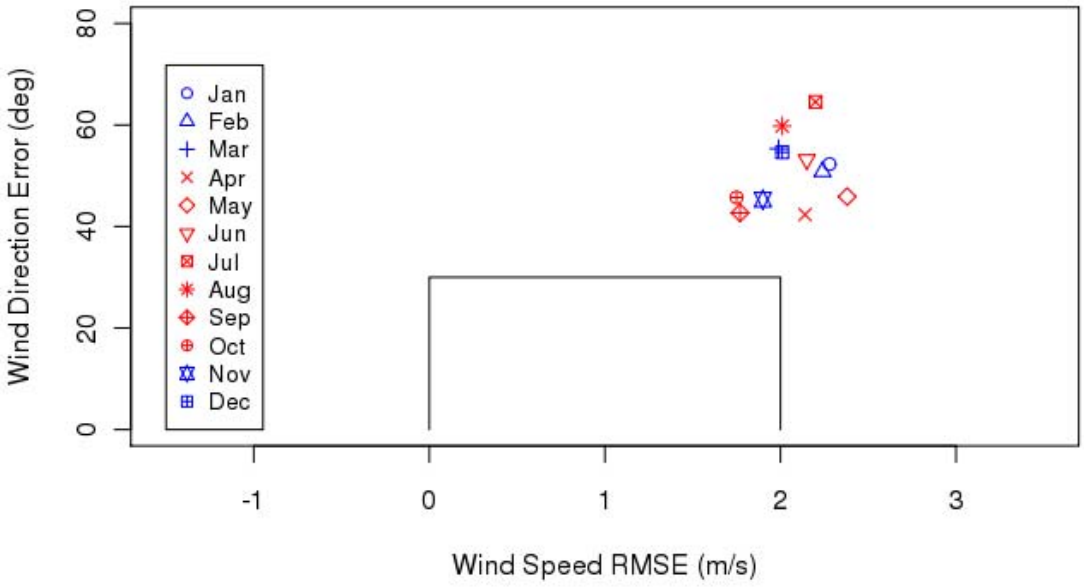
CO-KPUB 04km Wind Speed Performance Comparison



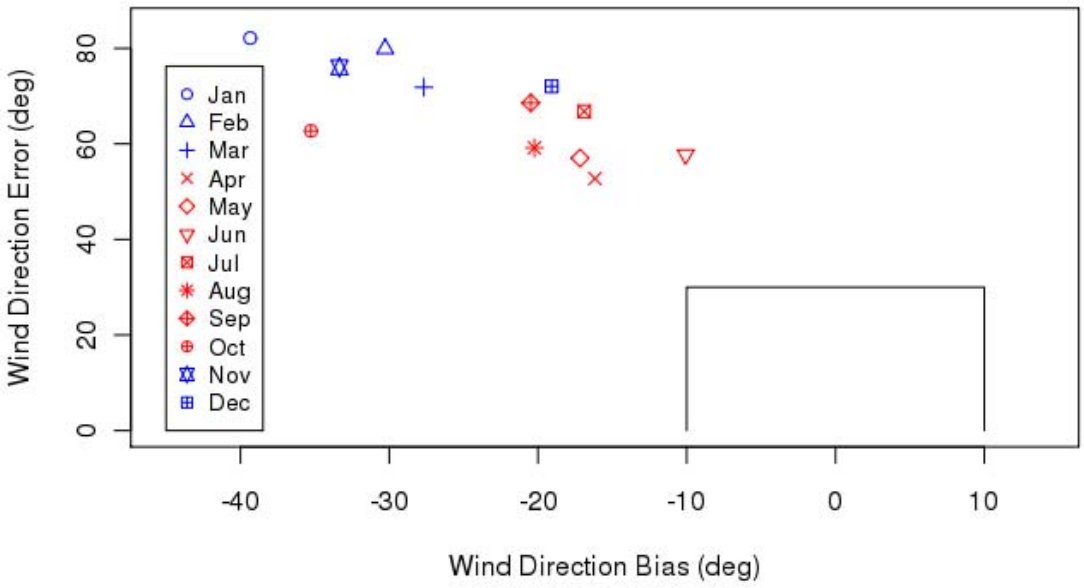
CO-KPUB 04km Temperature Performance Comparison



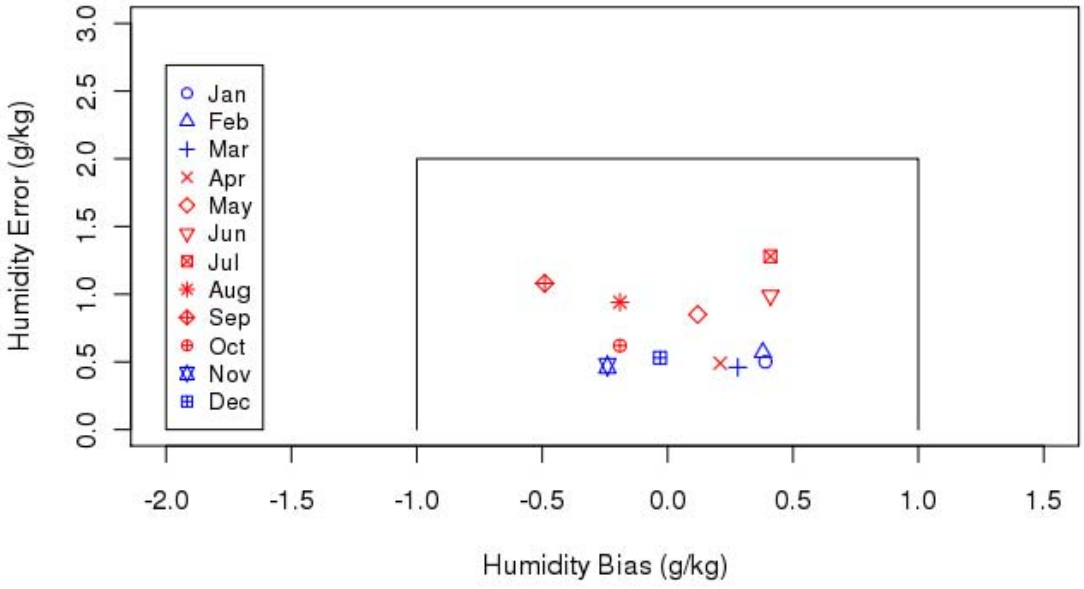
CO-KPUB 04km Wind Performance Comparison



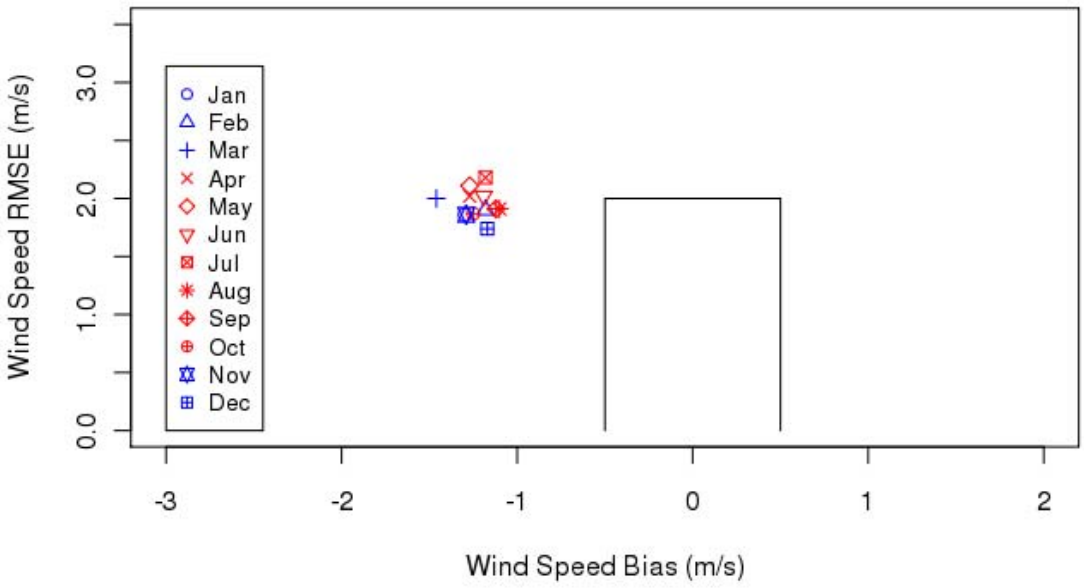
CO-KRIL 04km Wind Direction Performance Comparison



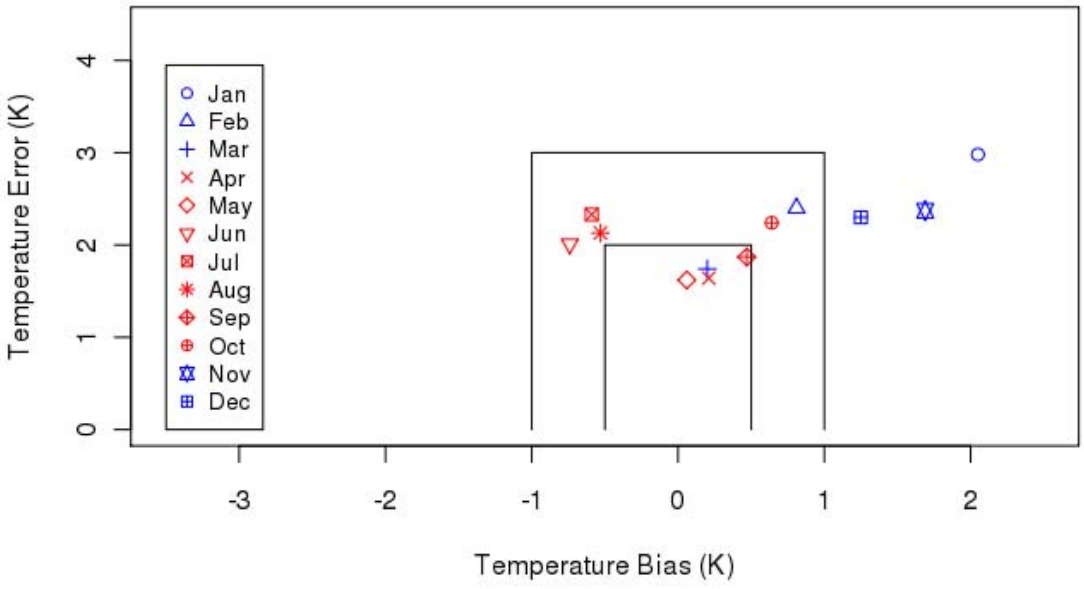
CO-KRIL 04km Humidity Performance Comparison



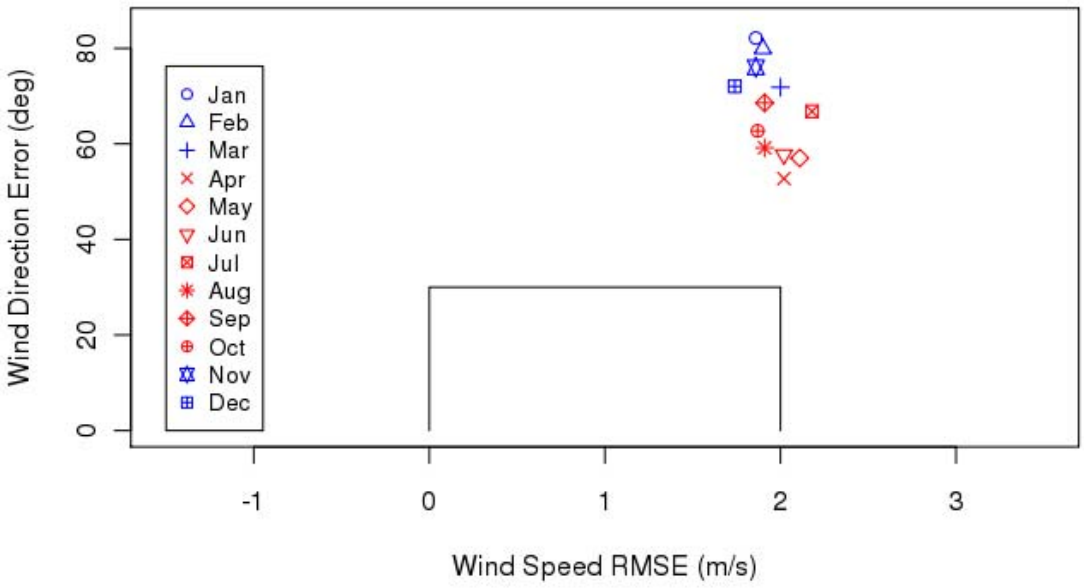
CO-KRIL 04km Wind Speed Performance Comparison



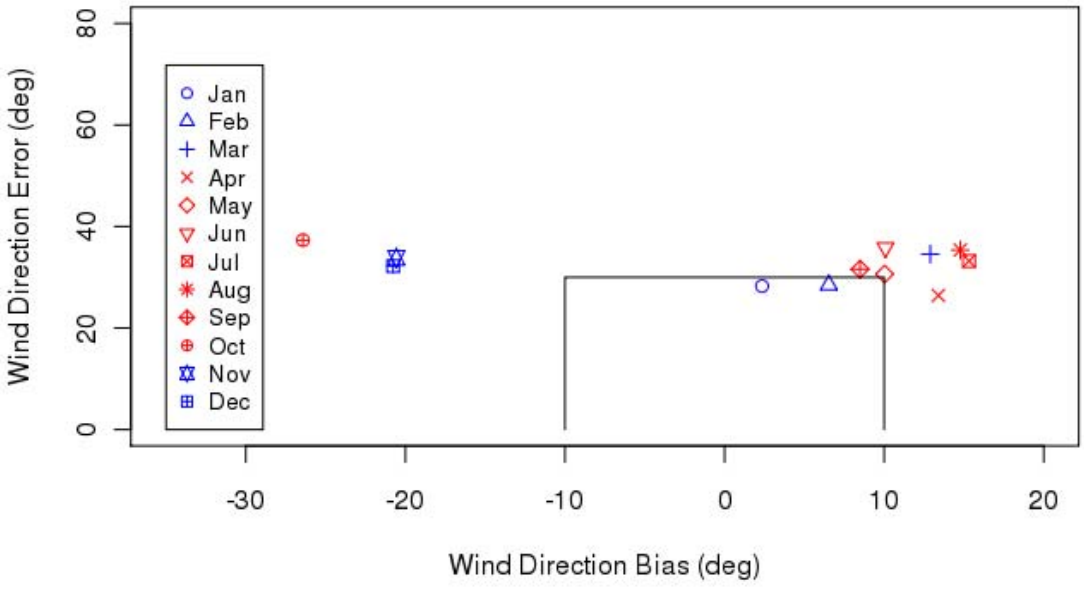
CO-KRIL 04km Temperature Performance Comparison



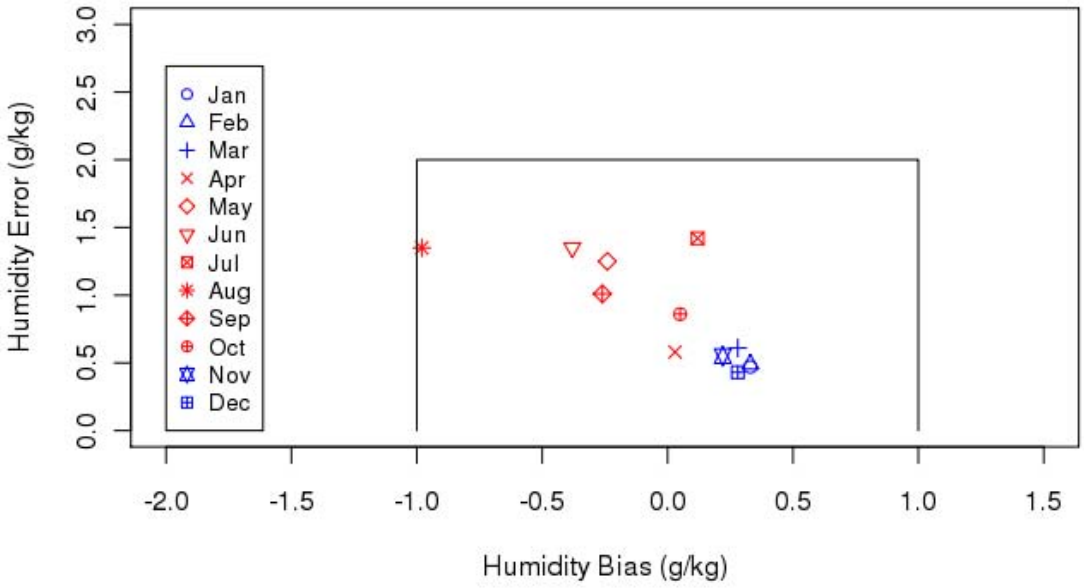
CO-KRIL 04km Wind Performance Comparison



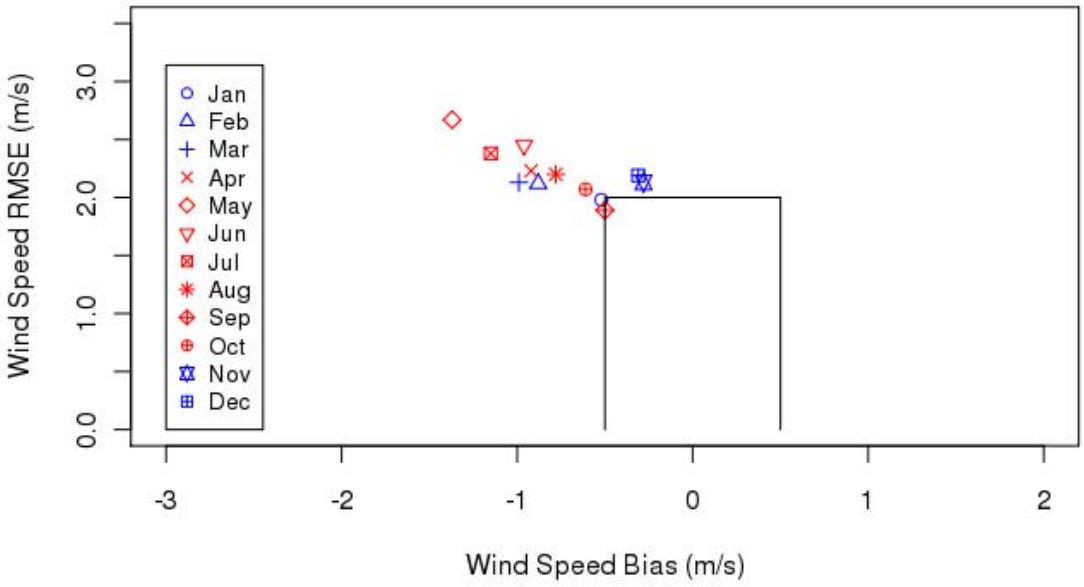
CO-KSPD 04km Wind Direction Performance Comparison



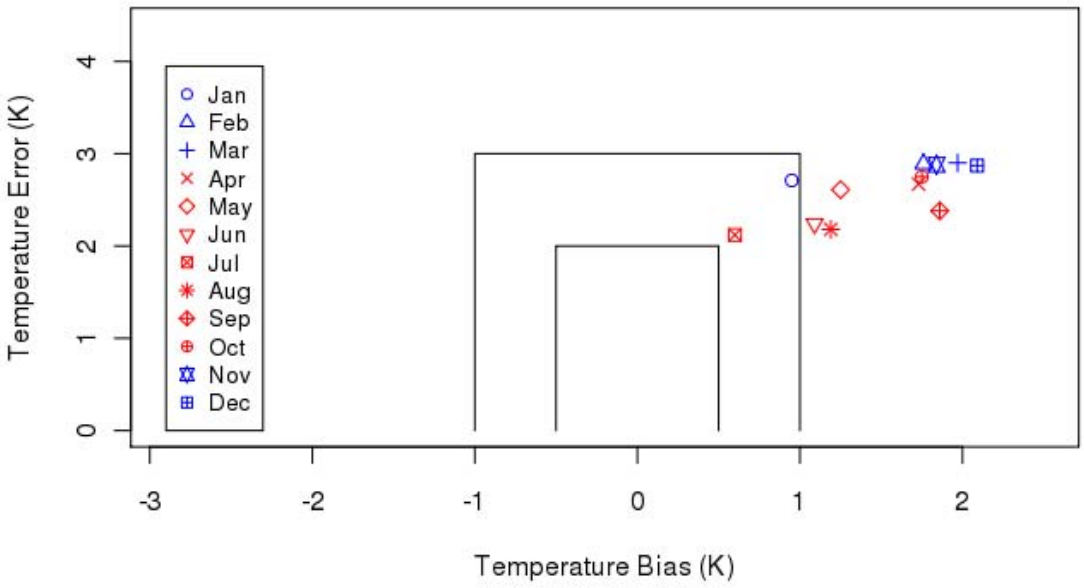
CO-KSPD 04km Humidity Performance Comparison



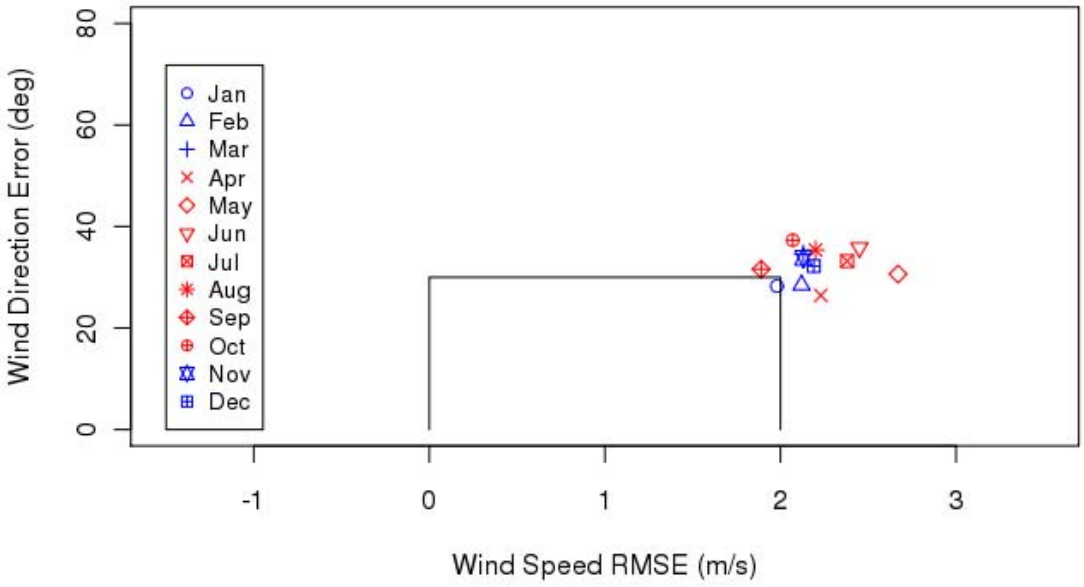
CO-KSPD 04km Wind Speed Performance Comparison



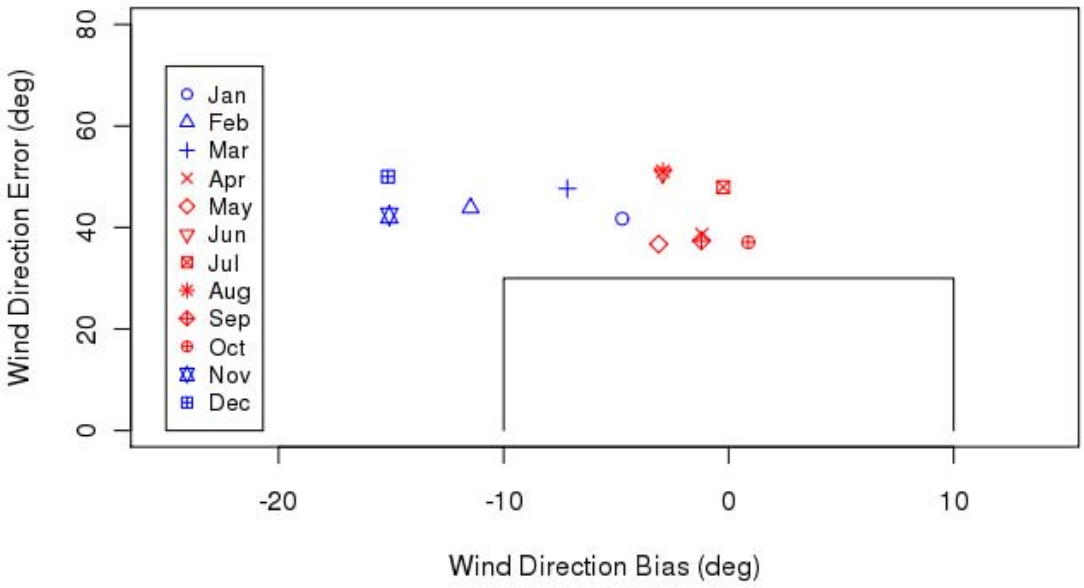
CO-KSPD 04km Temperature Performance Comparison



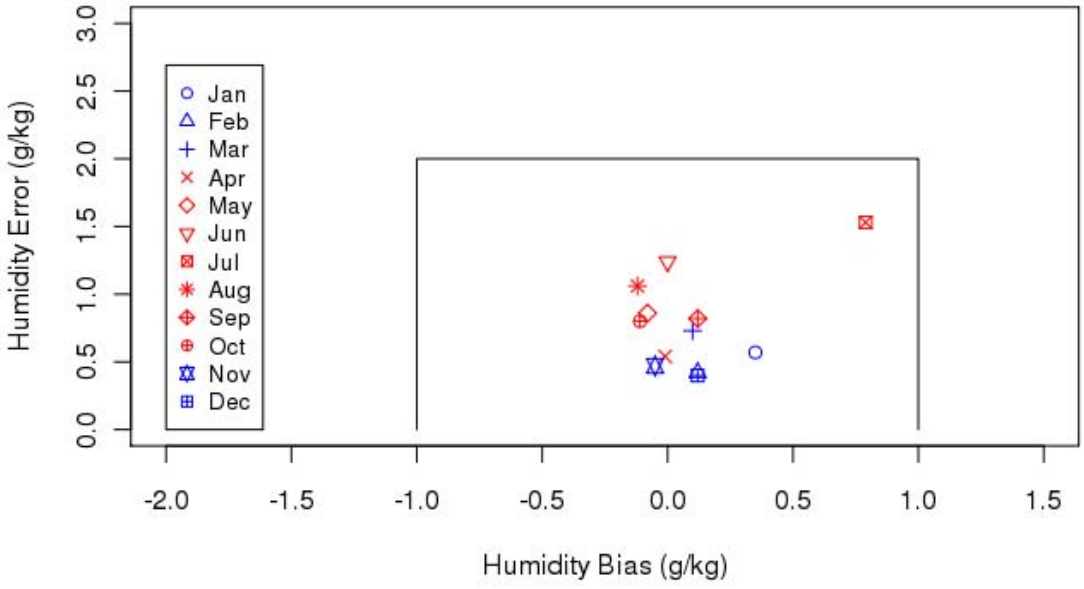
CO-KSPD 04km Wind Performance Comparison



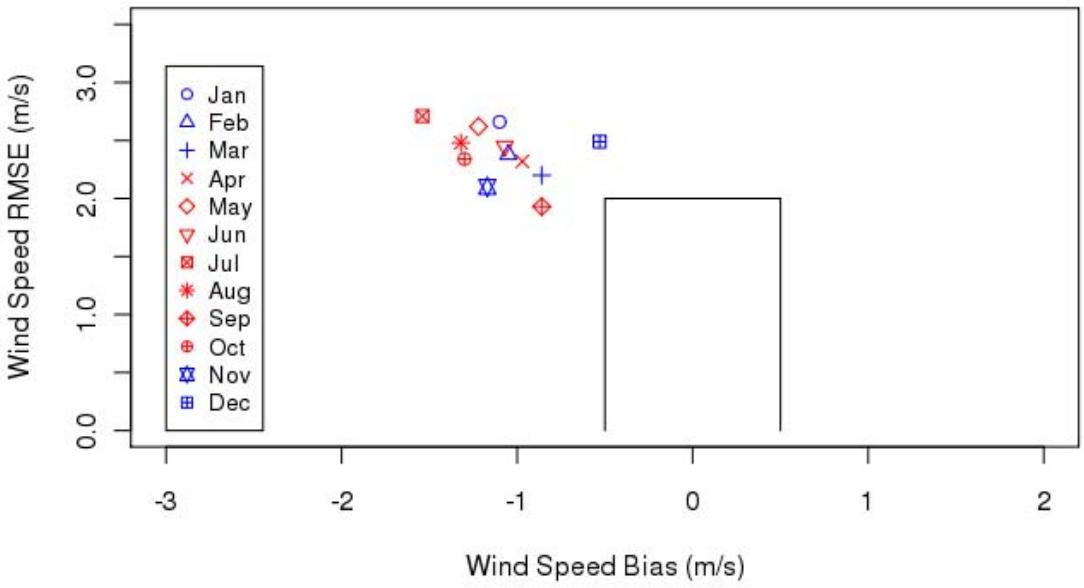
CO-KTAD 04km Wind Direction Performance Comparison



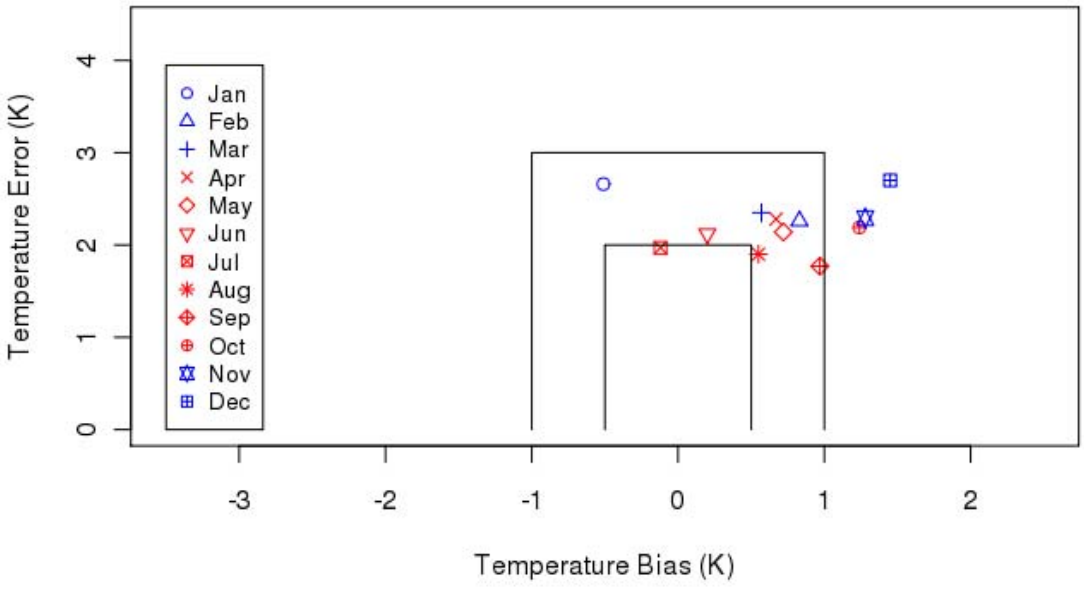
CO-KTAD 04km Humidity Performance Comparison



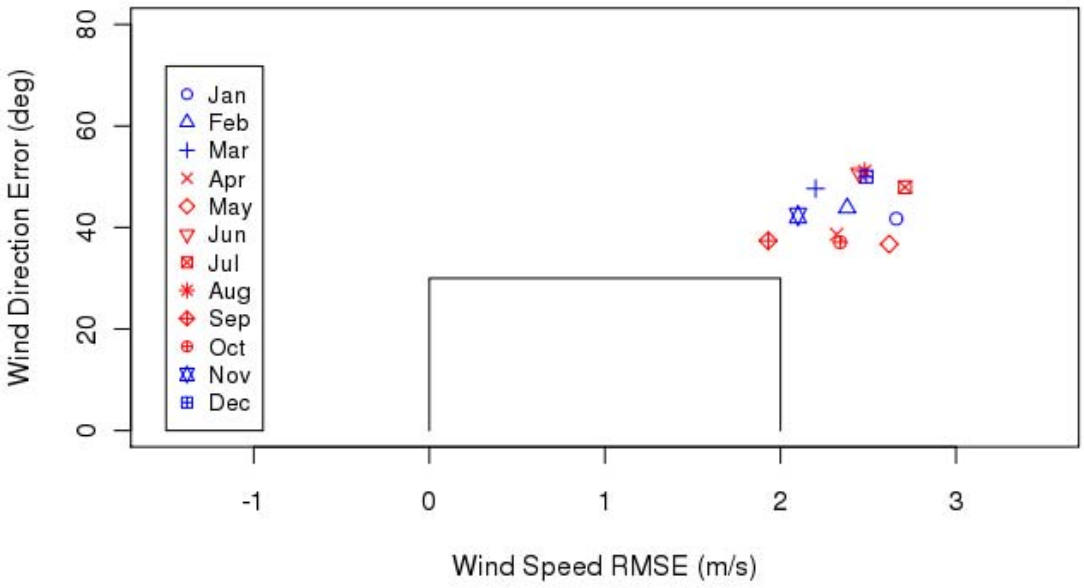
CO-KTAD 04km Wind Speed Performance Comparison



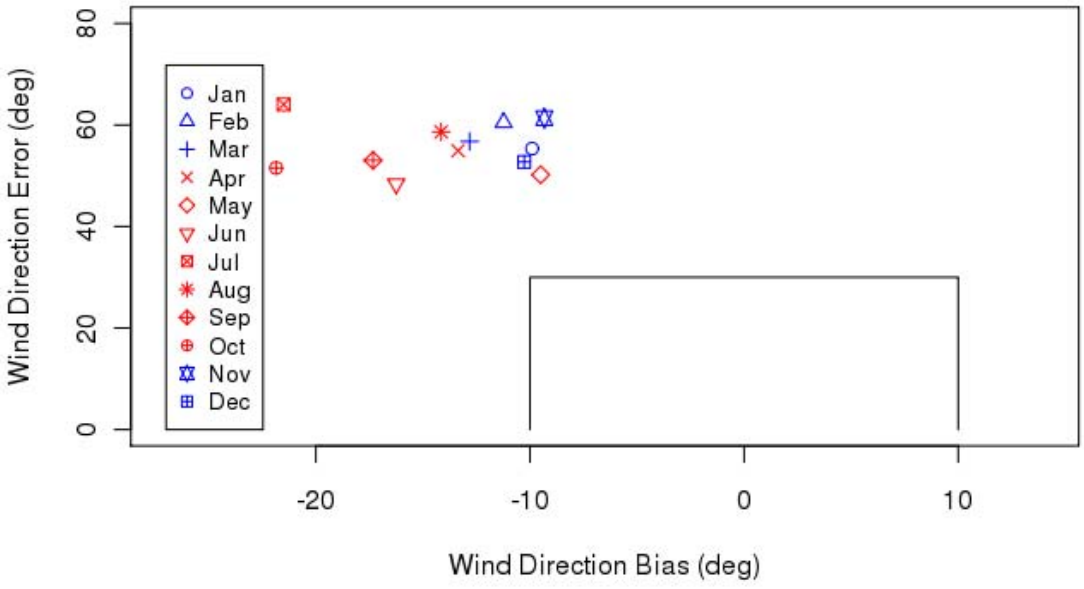
CO-KTAD 04km Temperature Performance Comparison



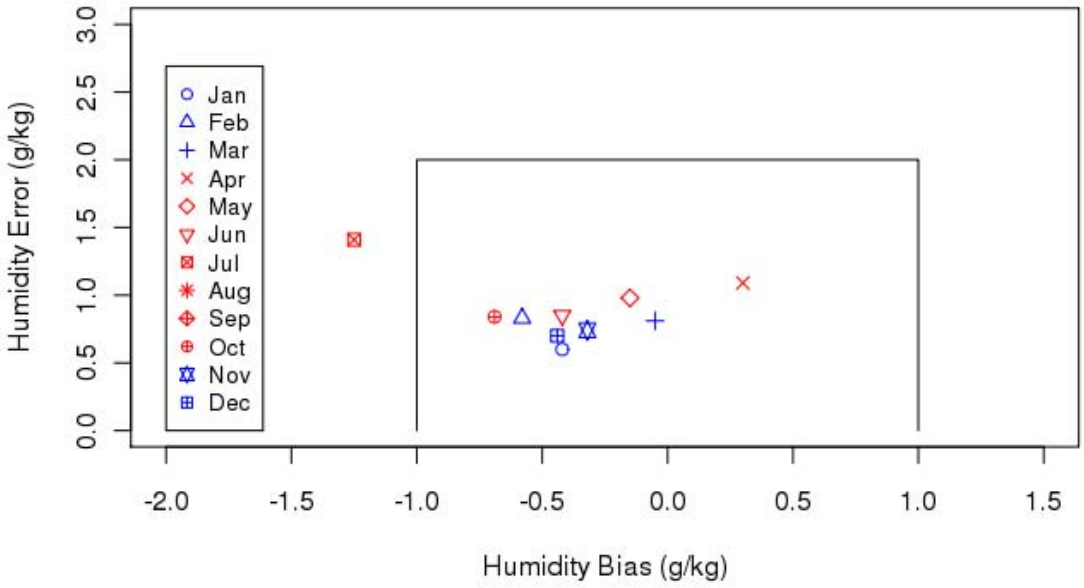
CO-KTAD 04km Wind Performance Comparison



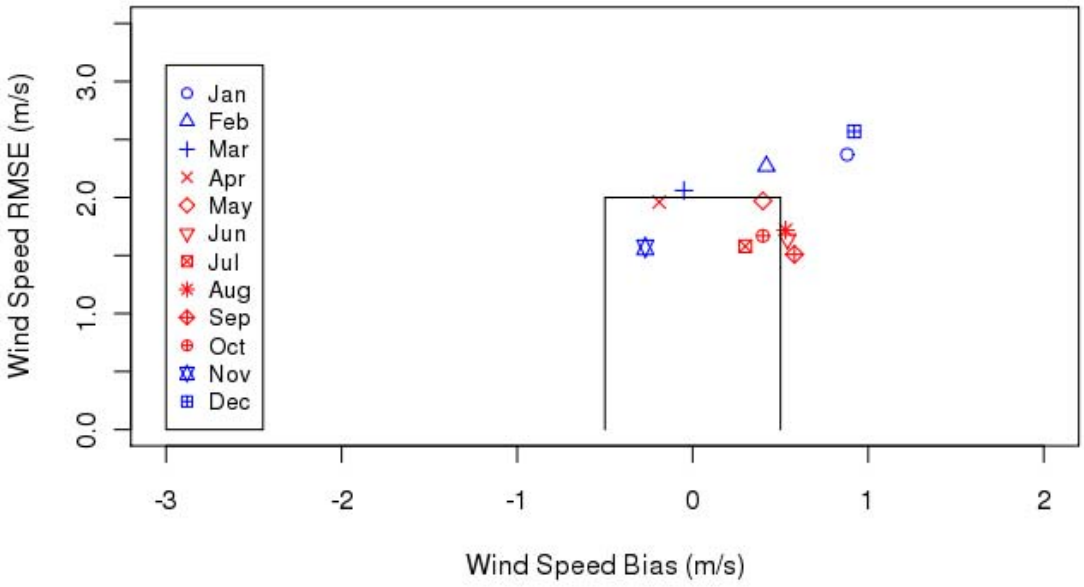
CO-KTEX 04km Wind Direction Performance Comparison



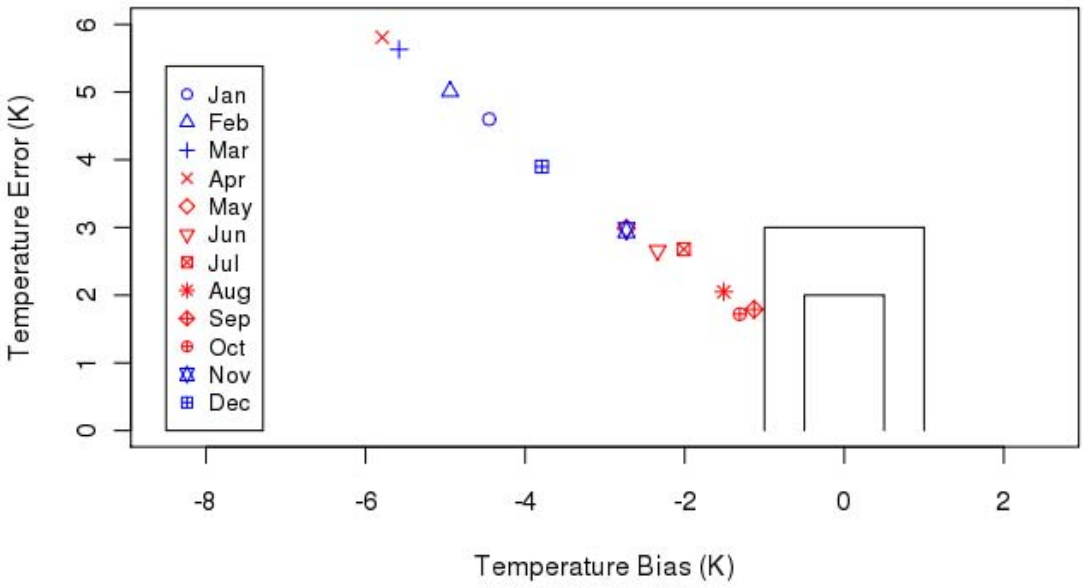
CO-KTEX 04km Humidity Performance Comparison



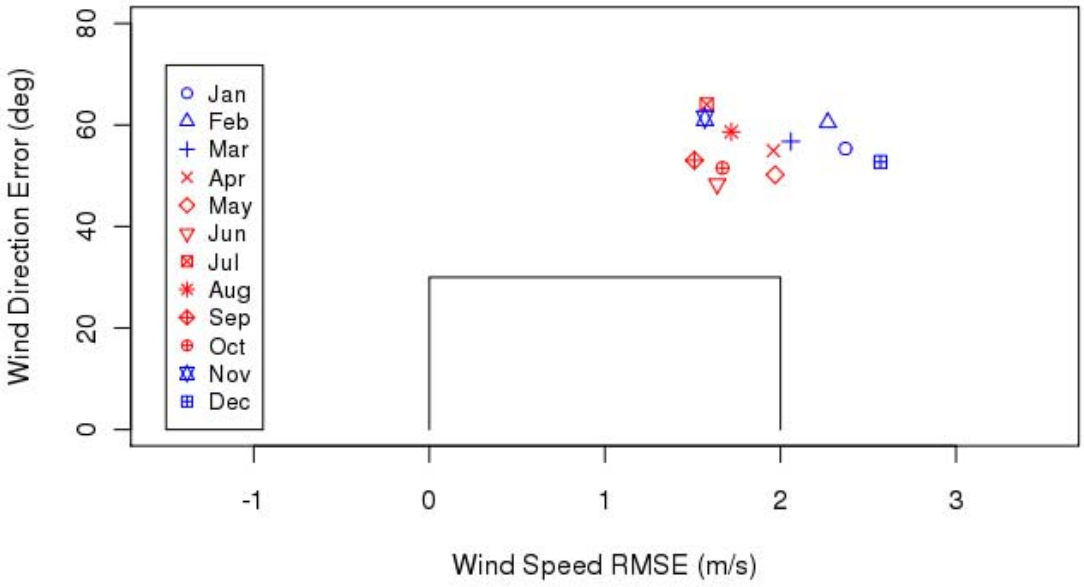
CO-KTEX 04km Wind Speed Performance Comparison

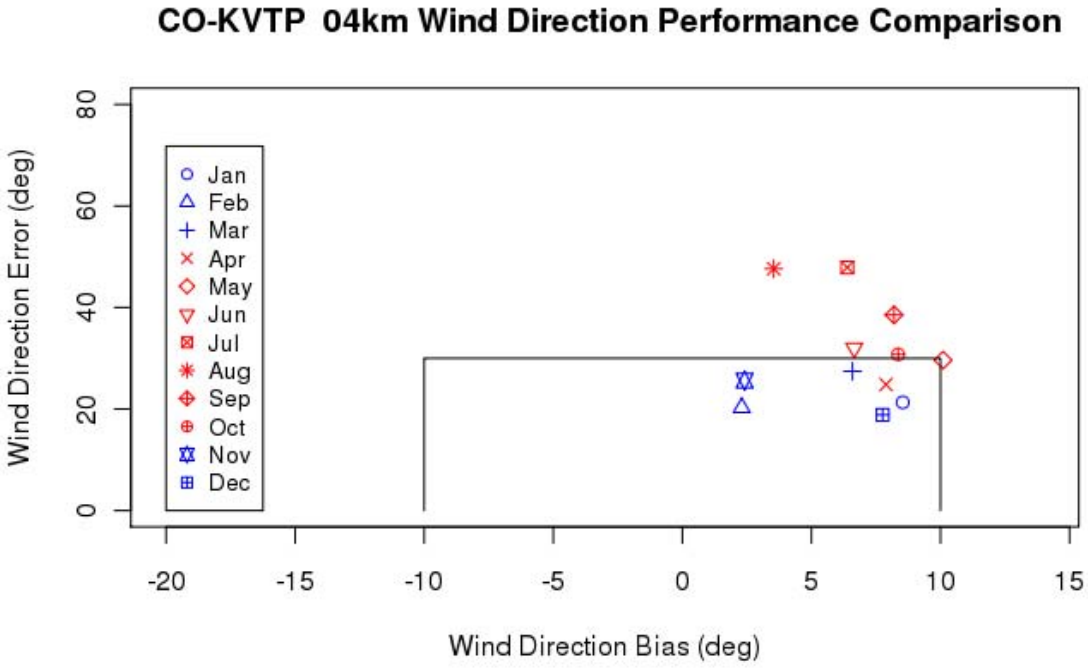


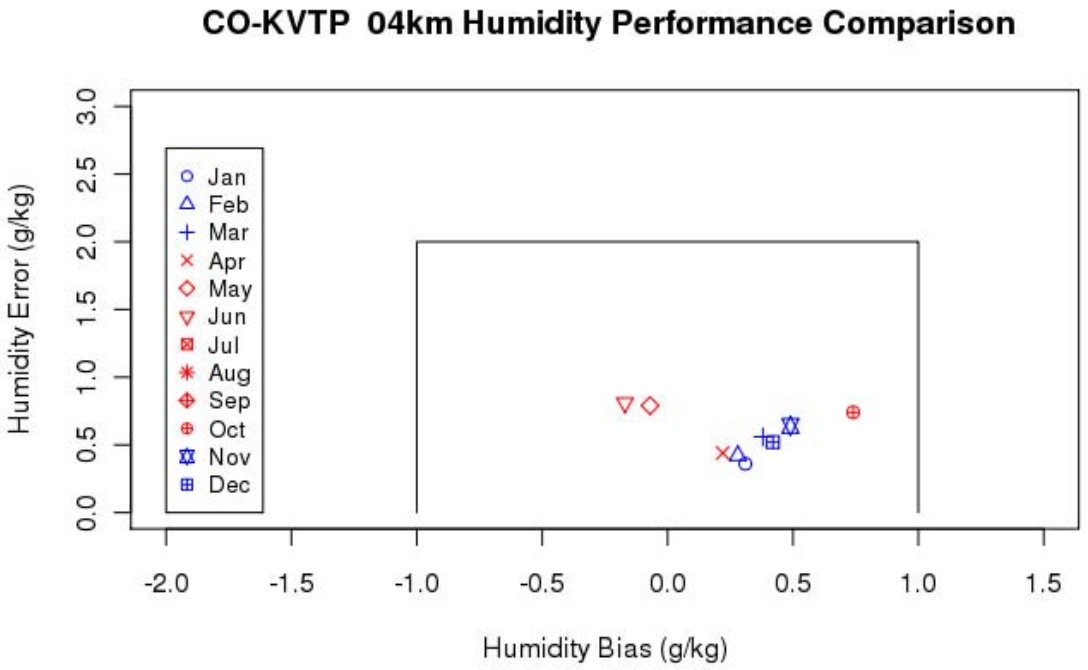
CO-KTEX 04km Temperature Performance Comparison



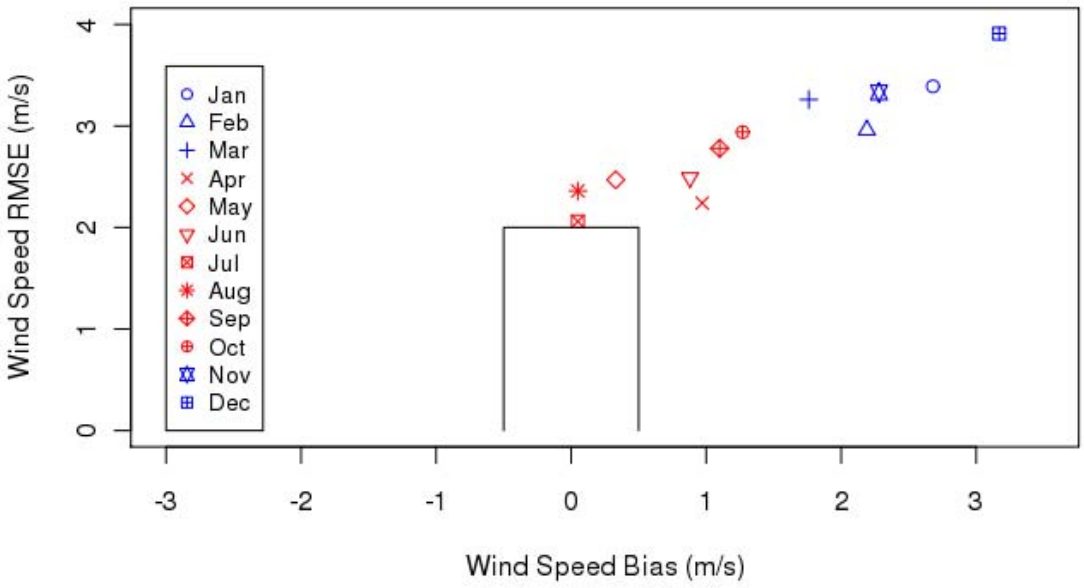
CO-KTEX 04km Wind Performance Comparison



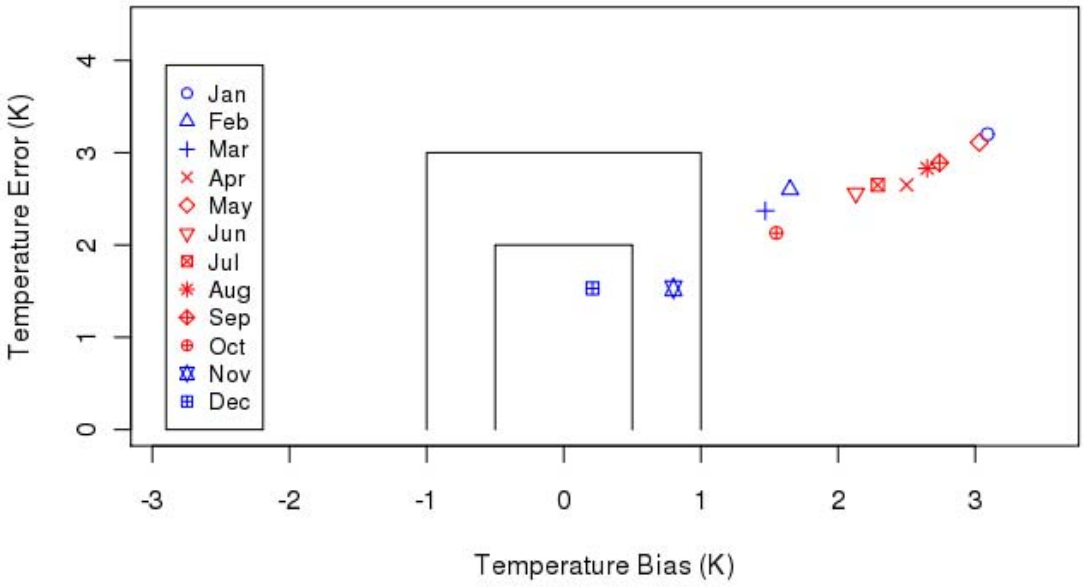

CO-KVTP 04km Wind Direction Performance Comparison
Wind Direction Error (deg)
0
20
40
60
80
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
-20
-15
-10
-5
0
5
10
15
Wind Direction Bias (deg)

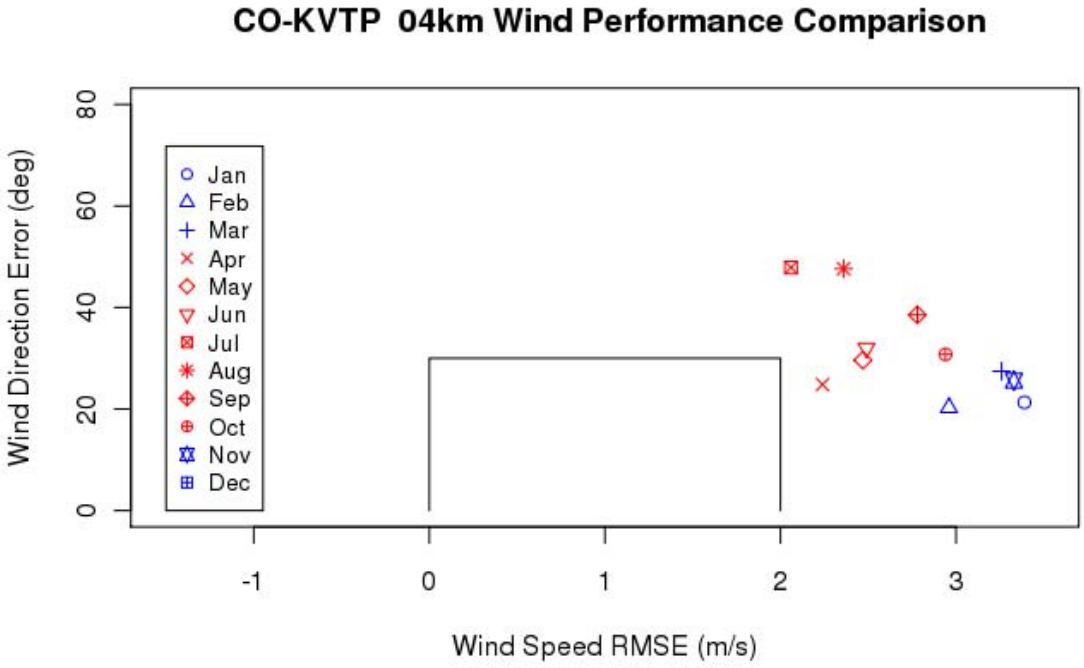

CO-KVTP 04km Humidity Performance Comparison
Humidity Error (g/kg)
0.0
0.5
1.0
1.5
2.0
2.5
3.0
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
-2.0
-1.5
-1.0
-0.5
0.0
0.5
1.0
1.5
Humidity Bias (g/kg)

CO-KVTP 04km Wind Speed Performance Comparison



CO-KVTP 04km Temperature Performance Comparison




CO-KVTP 04km Wind Performance Comparison
Wind Direction Error (deg)
0
20
40
60
80
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
-1
0
1
2
3
Wind Speed RMSE (m/s)