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Supplement of

High-resolution observations of the near-surface wind field over an isolated mountain and in a steep river canyon

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1 Supplement A. Surface sensor locations.

2 A1. Surface sensor locations at Big Southern Butte.

Sensor	Latitude	Longitude	Elevation (m)
R01	43.4327	-113.1032	1550
R02	43.3614	-113.1097	1558
R03	43.3441	-113.0842	1576
R04	43.3400	-113.0176	1629
R05	43.3488	-112.9620	1587
R06	43.4067	-113.0677	1561
R07	43.3851	-113.0229	1689
R08	43.4055	-113.0467	2006
R09	43.4084	-113.0568	1642
R10	43.4030	-113.0472	2083
R11	43.4054	-113.0416	1922
R12	43.3975	-113.0352	2015
R13	43.3843	-113.0114	1637
R14	43.4140	-113.0266	1770
R15	43.4124	-113.0379	1979
R16	43.4050	-113.0190	2095
R17	43.3970	-113.0021	1717
R18	43.4323	-113.0292	1549
R19	43.4085	-113.0088	1715
R20	43.4241	-113.0280	1587
R21	43.4173	-113.0287	1689
R22	43.4134	-112.9943	1549
R23_2	43.4222	-112.9886	1532
R24	43.4186	-112.9861	1540
R25	43.4058	-113.0457	2023
R26	43.4023	-113.0479	2105
R27_2	43.4008	-113.0393	2054
R28	43.4129	-113.0404	1865
R29	43.4091	-113.0430	1830
R30	43.4019	-113.0283	2201
R31	43.4041	-113.0353	2137
R32	43.4097	-113.0415	1823
R33	43.4278	-112.9788	1531
R34	43.4022	-113.0273	2187
R35	43.3992	-113.0236	2196
TSW1	43.3810	-113.0623	1580
TSW10	43.4162	-113.0164	1660
TSW11	43.4201	-113.0112	1595
TSW12	43.4240	-113.0061	1553
TSW13	43.4278	-113.0019	1539
TSW2	43.3849	-113.0572	1584
TSW3	43.3888	-113.0520	1626
TSW4	43.3926	-113.0471	1743
TSW5	43.3966	-113.0417	2043

TSW6_2	43.3997	-113.0369	2090
TSW7	43.4029	-113.0305	2223
TSW8	43.4085	-113.0267	1904
TSW9	43.4129	-113.0221	1765
TWSW1	43.3833	-113.0619	1580
TWSW10	43.4030	-113.0010	1641
TWSW11	43.4049	-112.9950	1560
TWSW3	43.3877	-113.0485	1634
TWSW4	43.3900	-113.0419	1698
TWSW5	43.3921	-113.0348	1816
TWSW6_2	43.3946	-113.0266	2208
TWSW8	43.3987	-113.0146	2078
TWSW9	43.4009	-113.0077	1892

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4 A2. Sonic Anemometer locations at Big Southern Butte.

Sensor	Latitude	Longitude	Elevation (m)
WSU1	43.3325	-113.10275	1564
WSU2	43.4087	-113.0041	1649

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7 A2. Surface sensor locations at Salmon River Canyon.

Sensor	Latitude	Longitude	Elevation (m)
K1	45.4192	-116.2111	1652
K2	45.4045	-116.2302	629
Natalie			
1	45.4130	-116.2358	959
Natalie			
2	45.3894	-116.2327	1388
Natalie			
3	45.3857	-116.2281	1195
Natalie			
4	45.3852	-116.2299	1166
NE1	45.4175	-116.2179	1498
NE2	45.4116	-116.2191	1185
NE3	45.4065	-116.2146	895
NE4	45.4003	-116.2153	569
NM1	45.4174	-116.2220	1535
NM2	45.4123	-116.2255	1216
NM3	45.4072	-116.2280	902
NM4	45.4036	-116.2310	560
NW1	45.4219	-116.2200	1775
NW2	45.4190	-116.2265	1480
NW3	45.4162	-116.2342	1125
NW4	45.4115	-116.2412	663
SE1	45.3862	-116.2426	1582
SE2	45.3909	-116.2331	1440
SE3	45.3926	-116.2290	1221
SE4	45.3968	-116.2211	823
SE5	45.3991	-116.2157	556
SM1	45.3902	-116.2394	1542
SM4	45.4010	-116.2317	638
SW2	45.3992	-116.2437	1088
SW3	45.4040	-116.2448	814
SW4	45.4089	-116.2443	563

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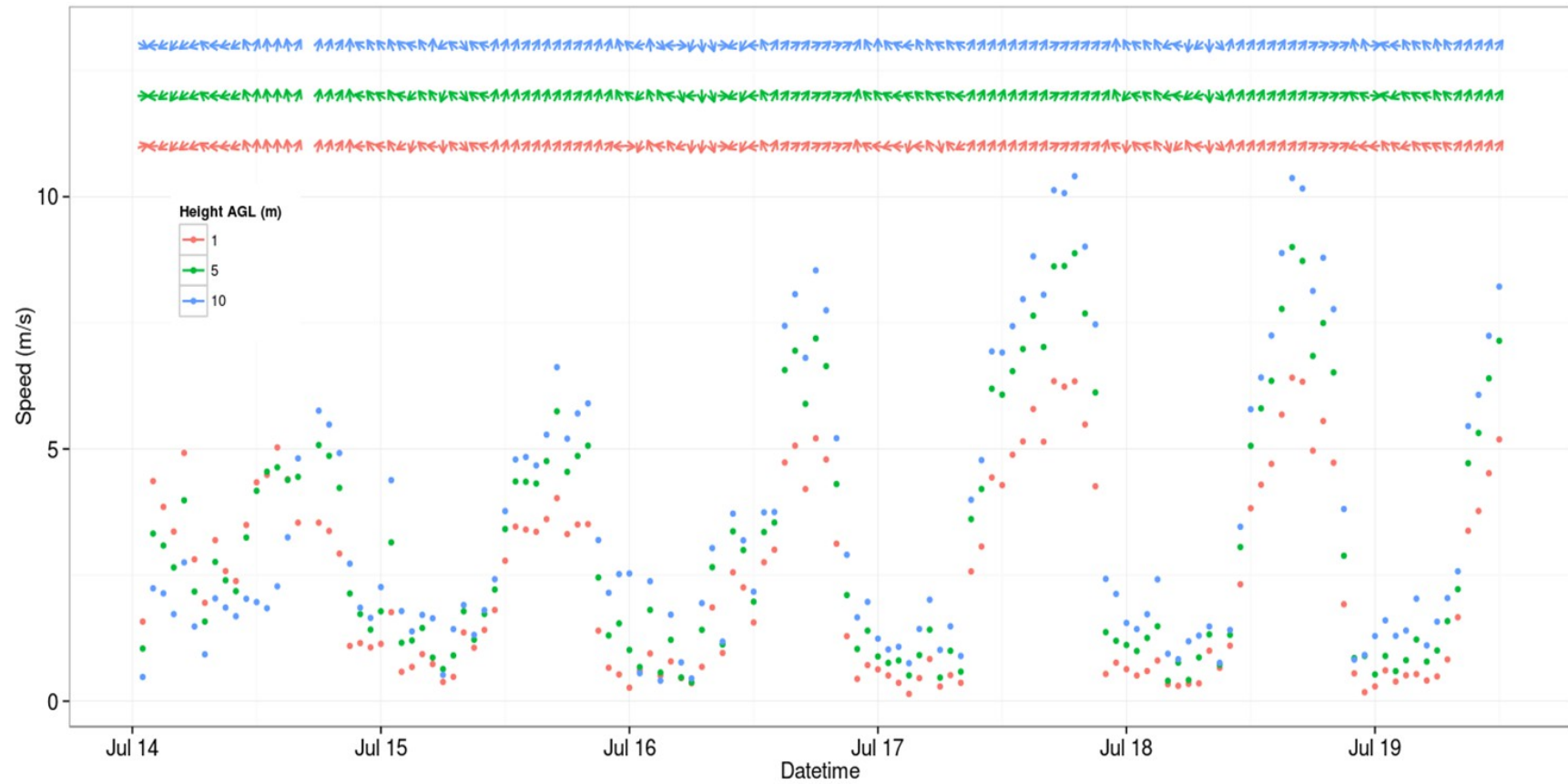
9 A4. Sonic Anemometer locations at Salmon River Canyon study site.

Sensor	Latitude	Longitude	Elevation (m)
ST1	45.39125	-116.23389	1418
ST2	45.40565	-116.23560	584
ST3	45.40293	-116.22563	627
ST4	45.42050	-116.21939	1713

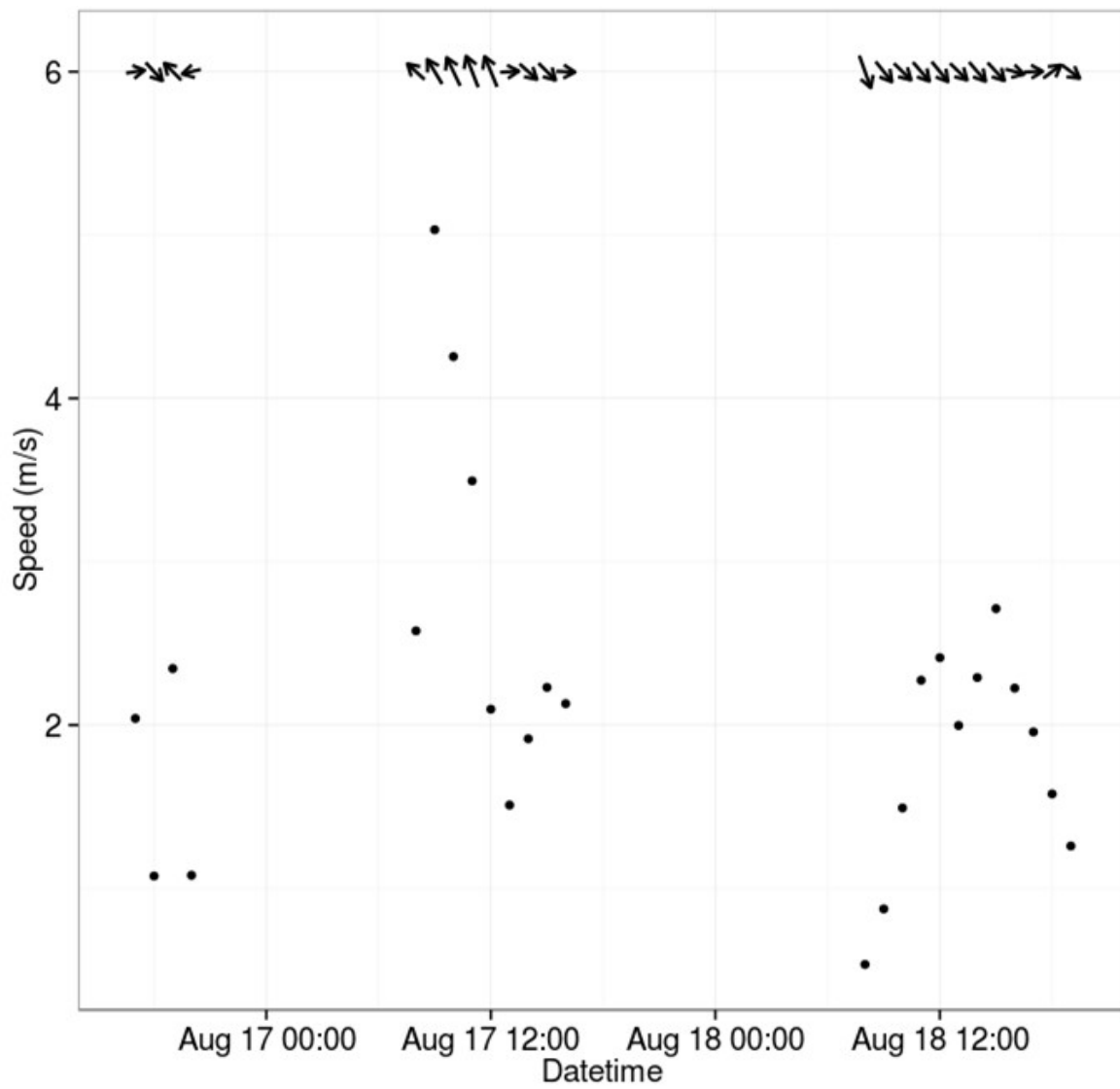
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11 Supplement B. Sonic anemometer data.

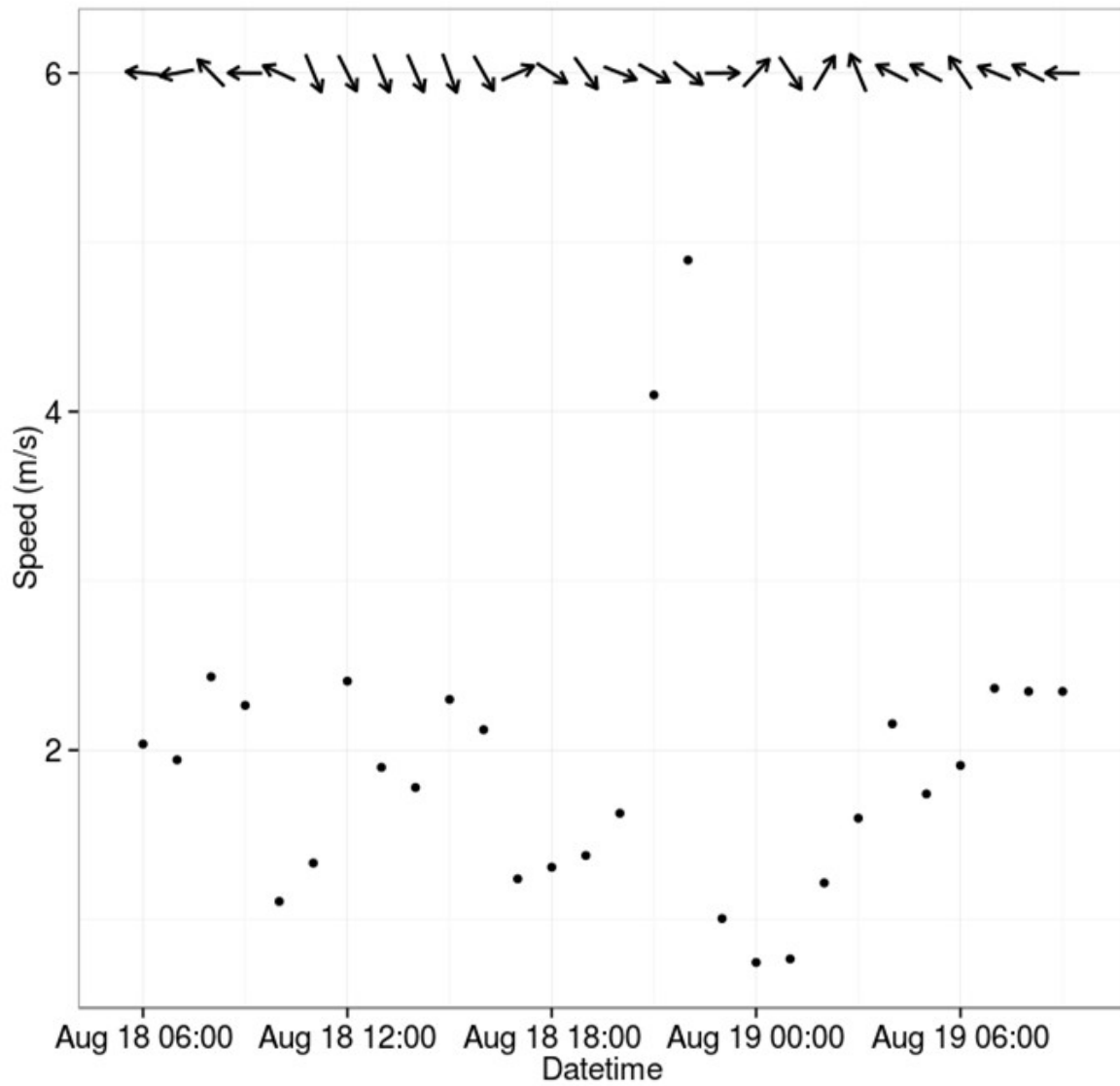
12 B1. Wind speeds and directions measured by sonic anemometers at Big Southern Butte WSU1.



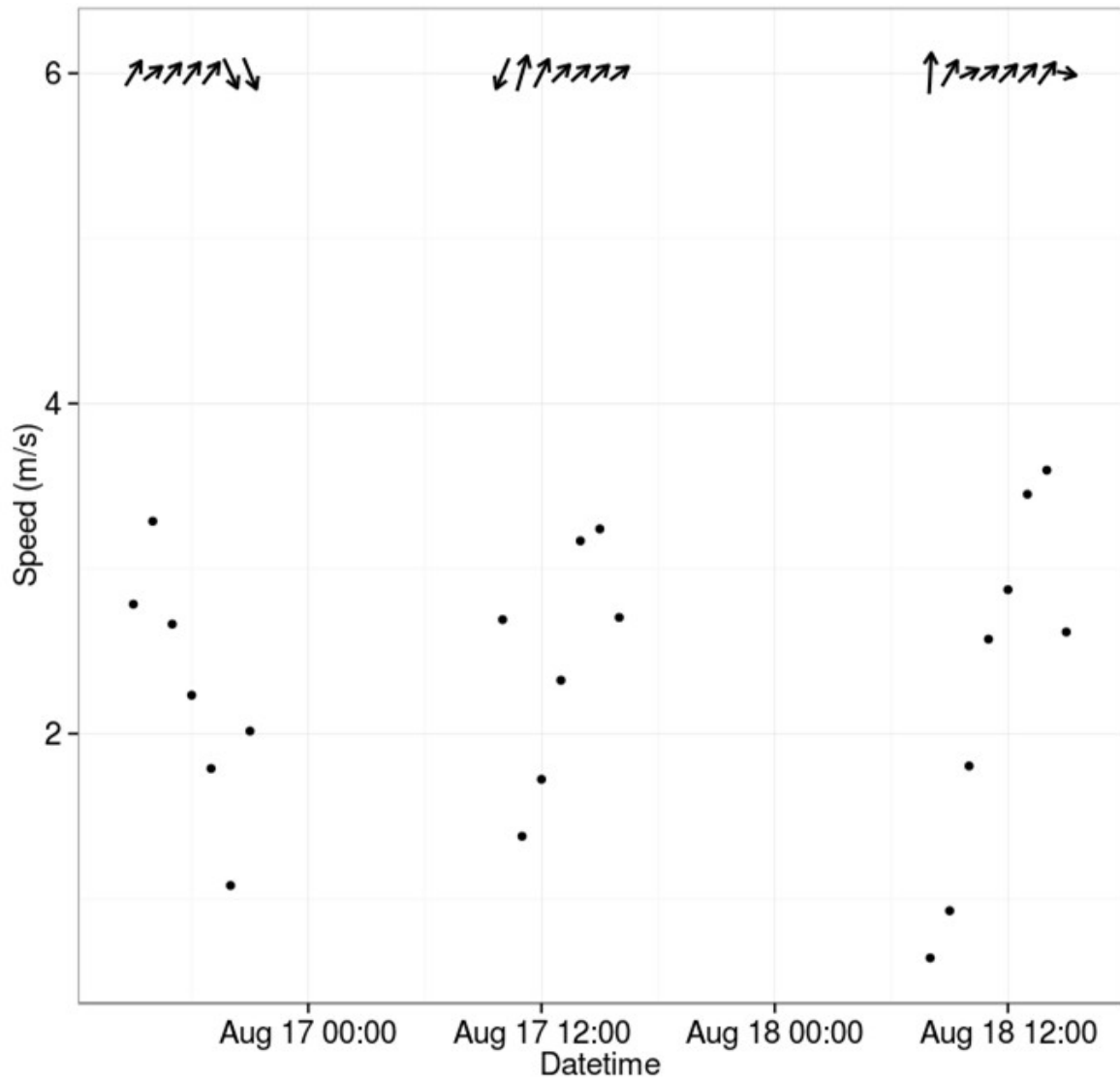
14 B2. Wind speeds and directions measured by a sonic anemometer at the Salmon
15 River Canyon ST3.



17 B3. Wind speeds and directions measured by a sonic anemometer at the Salmon
18 River Canyon ST1.



20 B4. Wind speeds and directions measured by a sonic anemometer at the Salmon
21 River Canyon ST4.



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