

72318 RNK Blacksburg Observations at 00Z 24 Jul 2015

PRES hPa	HGHT m	TEMP C	DWPT C	RELH %	MIXR g/kg	DRCT deg	SKNT knot	THTA K	THTE K	THTV K
1000.0	109									
941.0	654	24.8	17.8	65	13.82	90	3	303.2	344.4	305.7
935.0	706	24.0	15.0	57	11.59	86	4	302.9	337.6	305.0
925.0	792	22.8	14.8	61	11.57	80	5	302.6	337.1	304.7
918.0	858	22.0	14.0	60	11.06	75	5	302.4	335.5	304.5
912.1	914	21.5	13.9	62	11.06	70	5	302.5	335.6	304.5
880.4	1219	18.9	13.4	71	11.08	60	4	302.8	335.9	304.9
852.0	1501	16.4	12.9	80	11.09	4	2	303.1	336.3	305.1
850.0	1521	16.2	12.8	80	11.04	0	2	303.1	336.1	305.1
819.6	1829	13.9	11.1	83	10.19	315	6	303.9	334.5	305.7
797.0	2066	12.2	9.7	85	9.57	323	8	304.5	333.3	306.2
790.5	2134	12.0	8.6	80	8.96	325	8	304.9	332.1	306.6
781.0	2236	11.6	7.0	73	8.11	322	9	305.6	330.3	307.1
762.3	2438	9.8	5.8	76	7.65	315	12	305.8	329.2	307.2
762.0	2442	9.8	5.8	76	7.64	315	12	305.8	329.2	307.2
742.0	2662	8.4	2.4	66	6.17	319	13	306.6	325.7	307.8
734.8	2743	8.4	0.0	55	5.23	320	13	307.5	323.9	308.4
733.0	2763	8.4	-0.6	53	5.02	320	13	307.7	323.4	308.6
728.0	2820	9.6	-14.4	17	1.73	321	14	309.6	315.4	309.9
722.0	2888	9.8	-19.2	11	1.17	322	15	310.6	314.6	310.8
708.0	3050	8.2	-5.8	37	3.52	324	17	310.5	321.9	311.2
700.0	3144	8.0	-2.0	49	4.74	325	18	311.3	326.5	312.2
697.0	3179	8.0	0.0	57	5.52	325	18	311.7	329.2	312.7
689.0	3275	7.6	-2.4	49	4.68	325	17	312.3	327.3	313.2
683.0	3347	7.2	1.2	66	6.15	325	17	312.6	332.1	313.8
669.0	3517	6.0	1.2	71	6.28	325	16	313.1	333.1	314.3
660.0	3628	6.4	-10.6	28	2.60	325	15	314.8	323.5	315.3
657.6	3658	6.3	-11.0	28	2.52	325	15	315.0	323.4	315.5
652.0	3728	6.0	-12.0	26	2.35	323	15	315.4	323.4	315.9
643.0	3842	5.4	-12.6	26	2.27	319	15	316.0	323.7	316.4
639.0	3893	5.0	-9.0	36	3.04	317	15	316.1	326.2	316.7
623.0	4099	3.4	-5.6	52	4.06	311	15	316.6	329.9	317.4
618.0	4164	3.4	-12.6	30	2.36	308	15	317.3	325.3	317.8
612.0	4243	3.0	-16.0	23	1.80	306	15	317.7	324.0	318.1
610.2	4267	2.9	-16.0	24	1.81	305	15	317.8	324.1	318.2
589.0	4552	1.0	-16.0	27	1.87	300	19	318.9	325.4	319.3
585.0	4607	0.4	-8.6	51	3.43	299	19	318.8	330.3	319.5
582.0	4648	0.0	-8.0	55	3.61	299	20	318.8	330.9	319.5
578.0	4704	0.0	-9.0	51	3.37	298	21	319.5	330.8	320.1
568.0	4843	-1.1	-6.1	69	4.29	296	23	319.8	334.0	320.6
565.6	4877	-1.2	-6.2	69	4.27	295	23	320.0	334.2	320.8
556.0	5014	-1.7	-6.7	69	4.19	294	23	321.0	335.0	321.8
534.0	5334	-4.5	-6.5	86	4.43	293	22	321.4	336.1	322.2
519.0	5558	-5.9	-8.5	82	3.90	291	21	322.3	335.4	323.1
513.0	5649	-5.9	-10.1	72	3.48	291	20	323.4	335.2	324.1
509.0	5710	-5.7	-14.7	49	2.42	290	20	324.4	332.8	324.8
503.8	5791	-6.3	-15.3	49	2.31	290	20	324.5	332.6	325.0
501.0	5834	-6.7	-15.7	49	2.26	290	21	324.6	332.5	325.1
500.0	5850	-6.7	-16.7	45	2.08	290	22	324.8	332.1	325.2
491.0	5992	-7.5	-22.5	29	1.29	290	25	325.5	330.2	325.8
484.5	6096	-8.2	-21.9	33	1.38	290	27	325.9	330.8	326.1
477.0	6217	-9.1	-21.1	37	1.50	289	28	326.2	331.6	326.5
465.0	6414	-9.7	-29.7	18	0.70	288	30	327.9	330.5	328.0

458.0	6531	-10.7	-22.7	37	1.36	287	31	328.1	333.0	328.3
449.0	6683	-11.3	-34.3	13	0.47	286	33	329.2	331.0	329.3
444.0	6769	-12.1	-26.1	30	1.03	285	33	329.2	333.0	329.4
436.0	6908	-13.5	-23.5	43	1.33	285	35	329.1	334.0	329.4
433.0	6961	-13.7	-24.7	39	1.20	284	35	329.5	334.0	329.8
428.0	7049	-13.7	-40.7	8	0.26	284	36	330.6	331.7	330.7
422.0	7156	-14.3	-40.3	9	0.27	283	37	331.2	332.3	331.3
400.0	7560	-17.5	-35.5	19	0.47	280	41	332.2	334.0	332.2
396.8	7620	-18.0	-34.9	21	0.50	280	40	332.3	334.3	332.4
385.0	7845	-19.7	-32.7	31	0.64	273	54	332.9	335.4	333.0
380.9	7925	-20.0	-32.2	33	0.68	270	59	333.5	336.1	333.6
380.0	7942	-20.1	-32.1	34	0.69	270	59	333.6	336.3	333.8
364.0	8259	-21.9	-26.4	67	1.22	269	56	335.4	339.9	335.6
339.0	8778	-26.1	-28.7	79	1.06	267	52	336.5	340.6	336.7
330.0	8973	-27.3	-31.6	67	0.83	266	50	337.5	340.7	337.6
322.2	9144	-28.8	-33.0	68	0.74	265	49	337.7	340.6	337.8
313.0	9351	-30.7	-34.6	69	0.65	265	54	337.9	340.4	338.0
301.0	9627	-33.1	-38.1	61	0.48	265	61	338.3	340.2	338.4
300.0	9650	-33.1	-38.1	61	0.48	265	62	338.6	340.5	338.7
289.0	9911	-33.7	-52.7	13	0.10	268	68	341.4	341.8	341.4
283.0	10058	-33.9	-63.9	3	0.03	270	71	343.1	343.3	343.2
283.0	10057	-33.9	-63.9	3	0.03	270	71	343.1	343.3	343.2
250.0	10910	-40.5	-75.5	1	0.01	270	74	345.7	345.7	345.7
207.0	12167	-51.3	-75.3	4	0.01	265	79	347.9	348.0	347.9
206.2	12192	-51.5	-75.4	4	0.01	265	79	348.0	348.0	348.0
204.0	12262	-52.1	-75.7	4	0.01	265	79	348.1	348.1	348.1
200.0	12390	-53.3	-76.3	4	0.01	270	78	348.2	348.2	348.2
190.0	12720	-55.7	-75.7	7	0.01	270	73	349.5	349.5	349.5
150.0	14210	-61.9	-83.9	4	0.00	270	52	363.2	363.3	363.2
147.2	14326	-62.5	-84.5	4	0.00	270	49	364.2	364.2	364.2
147.0	14335	-62.5	-84.5	4	0.00	270	49	364.3	364.3	364.3
126.5	15240	-68.7	-88.3	4	0.00	275	50	369.1	369.1	369.1
121.0	15510	-70.5	-89.5	5	0.00	275	51	370.5	370.5	370.5
120.0	15559	-70.5	-88.5	6	0.00	277	51	371.4	371.4	371.4
119.0	15609	-69.5	-87.5	6	0.00	280	51	374.1	374.1	374.1
112.0	15970	-69.9	-87.9	6	0.00	296	51	379.9	379.9	379.9
108.6	16154	-68.9	-87.9	5	0.00	305	51	385.1	385.1	385.1
105.0	16355	-67.9	-87.9	4	0.00	305	44	390.8	390.8	390.8
102.0	16530	-65.5	-86.5	4	0.00	305	39	398.6	398.7	398.6
100.0	16650	-66.1	-87.1	4	0.00	305	35	399.8	399.8	399.8

Station information and sounding indices

Station identifier: RNK
 Station number: 72318
 Observation time: 150724/0000
 Station latitude: 37.20
 Station longitude: -80.41
 Station elevation: 654.0
 Showalter index: 1.83
 Lifted index: 1.63
 LIFT computed using virtual temperature: 1.31
 SWEAT index: 179.61
 K index: 25.70
 Cross totals index: 19.50
 Vertical totals index: 22.90
 Totals totals index: 42.40
 Convective Available Potential Energy: 2.25
 CAPE using virtual temperature: 9.86
 Convective Inhibition: -25.33

CINS using virtual temperature: -17.77
Equilibrium Level: 734.63
Equilibrium Level using virtual temperature: 729.44
Level of Free Convection: 763.29
LFCT using virtual temperature: 772.74
Bulk Richardson Number: 0.07
Bulk Richardson Number using CAPV: 0.31
Temp [K] of the Lifted Condensation Level: 285.78
Pres [hPa] of the Lifted Condensation Level: 817.95
Mean mixed layer potential temperature: 302.68
Mean mixed layer mixing ratio: 11.38
1000 hPa to 500 hPa thickness: 5741.00
Precipitable water [mm] for entire sounding: 31.14

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