

The Experiments of Weather Instruments & Observations lab.

(First Semester)

ASD / 2nd Stage

2022 – 2023

**Lecturers: L. Ruaa mazin , L. Hasan
mahmood, A.L. Yasamin qusay**

The radiosound data:

70133 Kotzebue, Ralph Wien Observs at 12Z 30 Mar. 2016

PRES hpa	HGHT m	TEMP C	DWPT C	RELH %	MIXR g/kg	DRCT deg	SKNT knot
1028.0	5	-22.3	-25.7	74	0.46	0	0
1015.0	98	-18.7	-21.7	77	0.67	346	3
1000.0	208	-17.1	-19.7	80	0.81	330	6
963.0	493	-14.9	-22.9	51	0.63	316	8
925.0	797	-15.5	-24.5	46	0.57	310	8
886.0	1122	-16.1	-26.1	42	0.52	281	7
850.0	1434	-15.9	-35.9	16	0.21	225	9
806.6	1829	-16.3	-39.1	12	0.16	245	12
774.5	2134	-16.9	-39.1	13	0.17	225	17
746.0	2414	-18.3	-41.3	11	0.14	225	16
700.0	2889	-18.9	-49.9	5	0.06	220	24
685.2	3048	-19.0	-51.0	4	0.05	220	24
665.0	3270	-20.5	-32.5	33	0.38	222	25
630.9	3658	-22.2	-32.8	37	0.39	225	27
580.2	4267	-26.3	-35.7	41	0.31	220	28
533.0	4877	-29.6	-41.2	31	0.19	225	32
500.0	5330	-32.7	-52.7	12	0.06	220	36
453.0	6019	-37.7	-55.7	13	0.04	220	40
400.0	6870	-42.1	-67.1	5	0.01	220	50
357.3	7620	-46.6	-71.6	4	0.01	225	59
335.0	8048	-49.1	-74.1	4	0.00	223	69
300.0	8770	-49.7	-71.7	6	0.01	220	87
278.0	9268	-50.9	-72.9	6	0.01	223	93
251.0	9934	-50.3	-74.3	4	0.01	225	86
250.0	9960	-50.5	-75.5	4	0.01	225	85
223.0	10703	-51.1	-79.1	2	0.00	225	72
200.0	11410	-51.4	-82.3	1	0.00	225	64
170.0	12471	-49.9	-83.9	1	0.00	228	55
152.0	13203	-48.7	-82.7	1	0.00	230	49
135.0	13993	-45.3	-80.3	1	0.00	224	40
120.0	14775	-46.1	-81.1	1	0.00	222	39
100.0	15990	-46.1	-81.1	1	0.01	235	41
78.9	17561	46.3	-81.3	1	0.01	208	28
67.5	18593	-48.5	-82.5	1	0.01	220	17
50.0	20560	-48.1	-82.1	1	0.01	210	20
30.0	23910	-49.5	-83.5	1	0.01	145	14
10.0	31090	-49.3	-83.3	1	0.04	65	24

The upper code:

TTAA 26231 13275 99993 05624 23002 00131 09044 23014 92777 02828 27504
85455 02133 23004 70969 11904 32005 50546 29361 30515 40702 39760 31013
30894 49362 28512 25013 50364 34014 20160 49163 33013 15348 50165 34508
10609 57576 33509 88265 51363 29515 77999 47708