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METEOROLOGICAL AND CLIMATOLOGICAL DATA FOR JUNE 1948

AEROLOGICAL OBSERVATIONS

[For description of change in Table 1 and charts, see REVIEW, January 1946, p. 6]

TABLE 1.—*Mean dynamic height (geopotential) in units of 0.98 dynamic meters, temperature in degrees centigrade, and relative humidity in percent, for standard pressures, as obtained by radiosondes during June 1948*

STATIONS AND MEAN SURFACE PRESSURES

Standard pressure surface (mb.)	Albany, N. Y. (1,022.2 mb.)				Albuquerque, N. Mex. (837.0 mb.)				Apalachicola, Fla. (1,015.8 mb.)				Atlanta, Ga. (981.0 mb.)				Big Spring, Tex. (924.2 mb.)				Bismarck, N. Dak. (955.1 mb.)				Boise, Idaho (913.1 mb.)			
	Number of observations	Dynamic height	Temperature	Relative humidity	Number of observations	Dynamic height	Temperature	Relative humidity	Number of observations	Dynamic height	Temperature	Relative humidity	Number of observations	Dynamic height	Temperature	Relative humidity	Number of observations	Dynamic height	Temperature	Relative humidity	Number of observations	Dynamic height	Temperature	Relative humidity	Number of observations	Dynamic height	Temperature	Relative humidity
Surface	30	86	16.3	80	30	1,620	24.6	31	30	5	25.7	83	30	300	23.9	71	30	774	28.3	41	30	505	18.1	70	30	868	21.2	55
1,000	30	105	(*)	----	30	25	(*)	----	30	143	25.0	81	30	132	(*)	----	30	65	(*)	----	30	107	(*)	----	30	71	(*)	----
950	30	549	16.4	68	30	495	(*)	----	30	596	22.9	72	30	585	24.5	61	30	532	(*)	----	30	552	18.2	65	30	525	(*)	----
900	30	1,002	13.9	69	30	980	(*)	----	30	1,063	20.1	68	30	1,054	21.4	63	30	1,009	27.7	39	30	1,012	15.8	59	30	994	21.5	46
850	30	1,481	10.5	72	30	1,484	(*)	----	30	1,555	16.8	70	30	1,547	17.6	68	30	1,513	24.2	41	30	1,495	12.3	63	30	1,486	18.1	45
800	30	1,984	7.1	68	30	2,015	22.5	30	30	2,069	13.4	72	30	2,063	13.9	69	30	2,040	20.0	44	30	2,000	8.8	66	30	2,002	14.0	48
750	30	2,514	3.9	68	30	2,576	18.1	33	30	2,612	9.8	69	30	2,606	10.2	62	30	2,596	16.0	44	30	2,537	5.3	65	30	2,541	9.4	53
700	30	3,070	.8	58	30	3,157	13.2	38	30	3,180	6.4	63	30	3,176	6.8	54	30	3,175	11.8	46	30	3,092	2.2	63	30	3,110	5.0	56
650	30	3,668	−1.6	55	30	3,774	7.9	46	30	3,785	3.0	56	30	3,783	3.1	56	30	3,795	7.0	48	30	3,688	−1.1	60	30	3,714	.6	59
600	30	4,295	−5.2	55	30	4,428	2.2	55	30	4,429	−.6	49	30	4,425	−.7	48	30	4,443	1.8	52	30	4,321	−4.7	53	30	4,348	−3.8	60
550	30	4,978	−9.2	51	30	5,122	−3.4	63	30	5,123	−4.4	44	30	5,118	−4.4	46	30	5,140	−3.0	49	30	5,001	−8.7	52	30	5,029	−8.4	57
500	30	5,705	−13.9	53	30	5,871	−8.8	66	30	5,865	−9.1	40	30	5,861	−9.0	42	30	5,888	−7.6	40	30	5,734	−13.2	46	30	5,762	−13.7	54
450	30	6,506	−19.0	53	30	6,685	−14.4	57	30	6,678	−14.3	----	30	6,677	−14.0	----	30	6,711	−12.5	----	30	6,532	−18.8	48	30	6,558	−19.4	53
400	30	7,366	−24.8	----	30	7,561	−20.6	----	30	7,555	−20.4	----	30	7,554	−20.1	----	30	7,592	−18.6	----	30	7,395	−25.0	----	30	7,419	−25.5	----
350	28	8,333	−31.4	----	29	8,533	−27.6	----	30	8,533	−27.2	----	30	8,530	−27.3	----	30	8,574	−25.4	----	29	8,351	−32.4	----	29	8,367	−33.1	----
300	28	9,406	−39.5	----	29	9,624	−35.6	----	30	9,621	−35.4	----	30	9,620	−35.8	----	30	9,675	−33.4	----	29	9,418	−40.9	----	29	9,430	−41.8	----
250	28	10,629	−48.5	----	28	10,868	−44.6	----	30	10,865	−45.1	----	30	10,860	−45.8	----	29	10,928	−42.8	----	29	10,631	−50.3	----	29	10,639	−51.3	----
200	26	12,059	−57.0	----	28	12,328	−54.3	----	30	12,318	−55.9	----	30	12,311	−56.1	----	29	12,398	−53.6	----	27	12,064	−57.2	----	29	12,063	−56.7	----
175	24	12,908	−59.0	----	28	13,172	−58.3	----	30	13,155	−61.5	----	29	13,156	−61.1	----	28	13,245	−58.8	----	26	12,910	−57.5	----	29	12,910	−56.1	----
150	23	13,866	−58.7	----	26	14,133	−62.3	----	30	14,099	−66.0	----	28	14,101	−65.4	----	28	14,202	−63.4	----	25	13,883	−56.9	----	28	13,886	−56.1	----
125	21	15,005	−59.8	----	21	15,255	−64.6	----	30	15,193	−69.8	----	28	15,203	−67.7	----	19	15,322	−67.2	----	23	15,028	−57.4	----	24	15,044	−57.7	----
100	17	16,381	−59.4	----	7	16,616	−65.5	----	26	16,505	−71.1	----	20	16,534	−67.9	----	10	16,663	−67.6	----	19	16,436	−58.4	----	20	16,448	−59.1	----
80	12	17,759	−58.1	----	----	----	----	----	16	17,838	−67.1	----	11	17,894	−65.1	----	5	18,000	−65.8	----	12	17,859	−58.1	----	12	17,842	−59.5	----
60	8	19,551	−55.8	----	----	----	----	----	9	19,601	−62.7	----	6	19,656	−59.6	----	----	----	----	----	5	19,645	−56.3	----	----	----	----	----

Standard pressure surface (mb.)	Brownsville, Tex. (1,011.7 mb.)				Buffalo, N. Y. (987.1 mb.)				Camaguey, Cuba [2] (---------- mb.)				Caribou, Maine (989.2 mb.)				Charleston, S. C. (1,013.7 mb.)				Ciudad Victoria, Mexico (970.5 mb.)				Columbia, Mo. (984.7 mb.)			
Surface	30	6	27.1	79	30	221	16.4	78	----	----	----	----	30	191	12.1	78	30	13	22.8	89	29	335	30.5	50	30	239	22.0	73
1,000	30	109	26.4	79	30	110	(*)	----	----	----	----	----	30	99	(*)	----	30	132	23.8	82	29	65	(*)	----	30	104	(*)	----
950	30	563	23.3	77	30	552	16.9	67	----	----	----	----	30	531	12.6	61	30	587	23.2	66	29	531	28.7	51	30	554	21.7	67
900	30	1,033	21.5	61	30	1,008	14.4	65	----	----	----	----	30	983	10.1	62	30	1,052	20.3	63	29	1,004	24.3	55	30	1,020	18.9	66
850	30	1,528	19.5	48	30	1,489	11.1	67	----	----	----	----	30	1,456	7.0	64	30	1,543	16.6	65	29	1,501	20.1	60	30	1,509	15.8	67
800	30	2,047	16.7	43	20	1,993	7.8	66	----	----	----	----	30	1,952	3.6	66	30	2,057	13.1	66	29	2,022	16.1	67	30	2,022	12.9	61
750	30	2,599	13.5	39	30	2,525	4.7	64	----	----	----	----	30	2,476	.7	64	30	2,603	9.9	60	29	2,573	12.3	66	30	2,571	10.2	58
700	30	3,172	10.0	40	30	3,082	2.0	59	----	----	----	----	30	3,025	−2.1	57	30	3,168	6.3	56	29	3,144	9.2	53	30	3,133	6.8	58
650	30	3,786	6.1	37	30	3,682	−.8	56	----	----	----	----	30	3,612	−5.1	53	30	3,778	2.9	53	28	3,758	5.5	49	30	3,742	3.3	54
600	30	4,436	2.4	32	30	4,313	−4.5	53	----	----	----	----	30	4,235	−8.8	49	30	4,416	−.9	45	27	4,405	2.3	38	30	4,384	−.5	50
550	30	5,134	−1.5	27	30	4,996	−8.5	48	----	----	----	----	30	4,905	−12.7	45	30	5,112	−4.7	45	26	5,108	−1.3	----	29	5,075	−5.0	48
500	30	5,886	−6.0	31	30	5,727	−12.9	49	----	----	----	----	30	5,625	−17.4	44	30	5,850	−9.0	37	26	5,859	−5.4	----	29	5,818	−9.7	45
450	30	6,712	−11.1	30	30	6,531	−17.9	47	----	----	----	----	30	6,411	−22.8	----	30	6,669	−14.3	----	26	6,693	−10.8	----	29	6,636	−14.7	40
400	30	7,599	−17.2	----	30	7,394	−23.9	----	----	----	----	----	30	7,260	−28.8	----	30	7,542	−20.4	----	26	7,576	−16.2	----	29	7,508	−21.0	----
350	30	8,585	−24.4	----	30	8,354	−30.8	----	----	----	----	----	30	8,202	−35.6	----	30	8,516	−27.4	----	26	8,566	−24.0	----	29	8,480	−28.2	----
300	30	9,690	−32.7	----	30	9,430	−38.8	----	----	----	----	----	30	9,258	−42.8	----	30	9,607	−35.8	----	25	9,670	−32.7	----	28	9,564	−36.6	----
250	30	10,947	−42.5	----	30	10,657	−47.8	----	----	----	----	----	29	10,474	−49.1	----	29	10,846	−45.3	----	25	10,928	−42.8	----	27	10,805	−45.6	----
200	27	12,415	−54.1	----	29	12,105	−55.5	----	----	----	----	----	28	11,927	−52.9	----	29	12,300	−55.9	----	20	12,399	−54.1	----	24	12,253	−56.4	----
175	26	13,257	−60.1	----	28	12,952	−57.6	----	----	----	----	----	22	12,789	−53.7	----	29	13,139	−60.7	----	10	13,249	−59.6	----	20	13,086	−60.8	----
150	23	14,203	−65.9	----	23	13,928	−58.7	----	----	----	----	----	12	13,770	−54.0	----	29	14,090	−65.0	----	----	----	----	----	15	14,053	−63.4	----
125	21	15,298	−70.8	----	6	15,085	−58.2	----	----	----	----	----	6	14,911	−54.7	----	24	15,184	−67.6	----	----	----	----	----	5	15,163	−66.1	----
100	10	16,603	−74.5	----	----	----	----	----	----	----	----	----	----	----	----	----	15	16,535	−66.1	----	----	----	----	----	----	----	----	----
80	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	9	17,880	−64.0	----	----	----	----	----	----	----	----	----
60	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	5	19,638	−60.0	----	----	----	----	----	----	----	----	----

TABLE 1.—*Mean dynamic height (geopotential) in units of 0.98 dynamic meters, temperature in degrees centigrade, and relative humidity in percent, for standard pressures, as obtained by radiosondes during June 1948*—Continued

Standard pressure surface (mb.)	Dodge City, Kans. (922.3 mb.)				El Paso, Tex. (878.7 mb.)				Ely, Nev. (808.0 mb.)				Fort Worth, Tex. (987.2 mb.)				Glasgow, Mont. (939.3 mb.)				Grand Junction, Colo. (850.5 mb.)				Great Falls, Mont. (887.8 mb.)			
	Number of observations	Dynamic height	Temperature	Relative humidity	Number of observations	Dynamic height	Temperature	Relative humidity	Number of observations	Dynamic height	Temperature	Relative humidity	Number of observations	Dynamic height	Temperature	Relative humidity	Number of observations	Dynamic height	Temperature	Relative humidity	Number of observations	Dynamic height	Temperature	Relative humidity	Number of observations	Dynamic height	Temperature	Relative humidity
Surface	30	792	22.7	62	29	1,195	29.1	26	30	1,908	17.7	36	30	211	28.4	55	30	648	18.6	65	30	1,474	22.3	32	30	1,128	16.3	70
1,000	30	77	(*)	----	29	24	(*)	----	30	40	(*)	----	30	95	(*)	----	30	104	(*)	----	30	38	(*)	----	30	100	(*)	----
950	30	536	(*)	----	29	497	(*)	----	30	501	(*)	----	30	556	27.2	50	30	550	(*)	----	30	505	(*)	----	30	552	(*)	----
900	30	1,005	23.0	57	29	985	(*)	----	30	973	(*)	----	30	1,029	23.9	53	30	1,014	17.1	57	30	981	(*)	----	30	1,013	(*)	----
850	30	1,502	20.5	55	29	1,489	27.8	26	30	1,469	(*)	----	30	1,527	20.4	56	30	1,498	13.5	59	30	1,479	(*)	----	30	1,498	14.6	63
800	30	2,024	17.3	57	29	2,022	23.6	27	30	1,993	18.3	33	30	2,048	17.0	53	30	2,006	9.7	63	30	2,005	20.2	31	30	2,007	11.0	66
750	30	2,575	13.7	56	29	2,583	18.8	32	30	2,543	13.9	35	30	2,602	14.0	44	30	2,542	6.2	63	30	2,557	15.3	36	30	2,548	7.2	70
700	30	3,149	9.6	55	29	3,167	13.7	39	30	3,118	8.8	41	30	3,174	10.1	42	30	3,101	2.9	64	30	3,136	10.3	42	30	3,107	3.3	72
650	30	3,763	5.0	56	29	3,788	8.1	47	30	3,726	3.7	48	30	3,792	5.9	43	30	3,699	−.5	62	30	3,748	5.0	47	30	3,706	−.6	70
600	30	4,407	.3	57	29	4,440	2.4	56	30	4,370	−1.8	54	30	4,435	1.3	42	30	4,334	−4.1	56	30	4,394	−.6	52	28	4,340	−4.6	64
550	30	5,100	−4.4	55	28	5,134	−3.0	57	30	5,054	−7.2	57	30	5,132	−3.4	41	30	5,018	−8.3	54	30	5,083	−6.1	53	28	5,023	−8.6	57
500	28	5,841	−9.6	48	27	5,886	−8.2	49	30	5,791	−12.5	50	30	5,878	−7.8	34	30	5,749	−13.0	48	30	5,821	−11.5	46	28	5,753	−13.6	54
450	28	6,654	−14.6	----	27	6,704	−13.5	----	29	6,597	−18.1	----	30	6,699	−12.9	----	29	6,553	−18.7	50	30	6,629	−16.9	----	28	6,554	−19.3	50
400	28	7,529	−21.3	----	27	7,583	−19.7	----	28	7,460	−24.5	----	30	7,579	−18.7	----	29	7,413	−25.2	----	30	7,494	−23.5	----	28	7,410	−26.1	----
350	28	8,500	−28.4	----	27	8,560	−27.0	----	27	8,425	−31.6	----	30	8,558	−26.6	----	28	8,369	−32.6	----	30	8,456	−30.8	----	28	8,361	−33.6	----
300	28	9,585	−36.6	----	27	9,652	−35.6	----	27	9,497	−39.8	----	29	9,652	−35.1	----	28	9,435	−41.4	----	30	9,531	−39.1	----	27	9,427	−42.1	----
250	28	10,824	−45.9	----	27	10,894	−45.7	----	27	10,718	−49.0	----	29	10,897	−44.9	----	26	10,639	−51.6	----	30	10,756	−47.9	----	27	10,633	−51.9	----
200	25	12,267	−56.1	----	27	12,344	−56.6	----	26	12,155	−56.0	----	29	12,350	−56.2	----	25	12,058	−58.3	----	28	12,205	−55.8	----	26	12,047	−58.8	----
175	22	13,099	−61.3	----	27	13,179	−62.0	----	24	12,997	−58.1	----	28	13,187	−61.8	----	22	12,900	−56.3	----	26	13,050	−58.1	----	25	12,888	−58.3	----
150	16	14,040	−63.1	----	23	14,120	−66.8	----	23	13,963	−59.7	----	27	14,133	−66.4	----	18	13,880	−55.0	----	23	14,015	−59.8	----	22	13,855	−56.8	----
125	----	----	----	----	11	15,216	−70.8	----	22	15,098	−60.3	----	19	15,215	−70.4	----	14	15,041	−55.3	----	22	15,146	−61.5	----	20	15,013	−57.1	----
100	----	----	----	----	----	----	----	----	15	16,485	−62.0	----	12	16,534	−71.9	----	8	16,464	−55.7	----	16	16,519	−62.9	----	17	16,416	−58.1	----
80	----	----	----	----	----	----	----	----	10	17,864	−61.8	----	----	----	----	----	----	----	----	----	----	----	----	----	11	17,836	−58.8	----
60	----	----	----	----	----	----	----	----	5	19,682	−58.5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

Standard pressure surface (mb.)	Greensboro, N. C. (983.4 mb.)				Hatteras, N. C. (1,014.2 mb.)				Havana, Cuba [1] (------ mb.)				Honolulu, T. H. (1,014.7 mb.)				Huntington, W. Va. (994.2 mb.)				International Falls, Minn. (973.0 mb.)				Joliet, Ill. (992.5 mb.)			
	Number of observations	Dynamic height	Temperature	Relative humidity	Number of observations	Dynamic height	Temperature	Relative humidity	Number of observations	Dynamic height	Temperature	Relative humidity	Number of observations	Dynamic height	Temperature	Relative humidity	Number of observations	Dynamic height	Temperature	Relative humidity	Number of observations	Dynamic height	Temperature	Relative humidity	Number of observations	Dynamic height	Temperature	Relative humidity
Surface	29	273	20.4	83	29	3	23.6	87	----	----	----	----	30	3	27.4	62	30	172	19.5	83	30	360	14.8	73	30	178	17.6	78
1,000	29	128	(*)	----	29	126	23.2	83	----	----	----	----	30	132	25.2	64	30	120	(*)	----	30	126	(*)	----	30	112	(*)	----
950	29	578	21.6	68	29	577	21.2	72	----	----	----	----	30	585	21.3	71	30	569	20.5	69	30	565	16.3	64	30	558	18.6	70
900	29	1,042	19.0	65	29	1,041	18.7	69	----	----	----	----	30	1,047	17.7	75	30	1,030	17.6	67	30	1,021	13.3	65	30	1,017	16.3	68
850	29	1,531	15.4	70	29	1,530	15.4	70	----	----	----	----	30	1,535	14.7	76	30	1,517	14.3	69	30	1,500	10.0	68	30	1,501	13.3	69
800	29	2,043	11.6	74	29	2,042	12.4	67	----	----	----	----	30	2,046	12.5	65	30	2,027	11.1	67	30	2,001	6.6	68	30	2,009	10.4	68
750	29	2,586	8.0	74	29	2,586	9.2	62	----	----	----	----	30	2,594	11.5	37	30	2,569	7.8	70	30	2,533	3.8	60	30	2,549	7.2	67
700	29	3,147	4.9	63	29	3,150	6.0	55	----	----	----	----	30	3,160	9.3	25	30	3,129	4.4	66	30	3,086	1.0	49	30	3,109	4.1	63
650	29	3,751	1.1	64	29	3,757	2.7	53	----	----	----	----	30	3,775	6.2	22	30	3,729	.9	64	30	3,682	−1.9	42	30	3,709	.8	55
600	29	4,388	−2.7	61	28	4,394	−.9	50	----	----	----	----	30	4,422	2.2	----	30	4,368	−3.0	63	30	4,312	−5.4	39	30	4,348	−2.9	56
550	29	5,079	−6.4	54	28	5,087	−4.9	40	----	----	----	----	30	5,121	−2.1	----	29	5,051	−6.9	51	30	4,990	−9.6	43	30	5,033	−6.7	51
500	29	5,812	−10.7	45	28	5,828	−9.4	41	----	----	----	----	30	5,869	−6.9	----	29	5,789	−11.2	45	30	5,718	−14.2	43	30	5,772	−11.1	46
450	28	6,620	−16.0	40	28	6,642	−14.5	----	----	----	----	----	30	6,692	−12.0	----	29	6,597	−16.1	39	30	6,515	−19.6	44	30	6,581	−16.4	44
400	28	7,489	−22.1	----	27	7,517	−20.6	----	----	----	----	----	30	7,574	−18.4	----	29	7,468	−22.4	----	30	7,373	−25.8	----	30	7,451	−22.5	----
350	28	8,457	−29.1	----	27	8,491	−27.5	----	----	----	----	----	30	8,557	−25.7	----	29	8,435	−29.6	----	29	8,328	−33.0	----	30	8,417	−29.8	----
300	28	9,540	−37.1	----	26	9,579	−35.8	----	----	----	----	----	30	9,654	−34.2	----	28	9,517	−37.7	----	29	9,393	−41.1	----	30	9,496	−38.0	----
250	28	10,776	−46.1	----	25	10,825	−45.2	----	----	----	----	----	30	10,904	−43.8	----	28	10,750	−46.7	----	29	10,607	−50.0	----	28	10,740	−47.0	----
200	27	12,234	−56.1	----	24	12,285	−55.6	----	----	----	----	----	30	12,369	−53.9	----	28	12,200	−55.4	----	29	12,045	−55.0	----	22	12,173	−56.9	----
175	26	13,073	−60.6	----	22	13,133	−61.1	----	----	----	----	----	30	13,216	−58.6	----	26	13,037	−59.3	----	27	12,904	−54.6	----	19	13,013	−60.0	----
150	25	14,025	−64.6	----	9	14,108	−65.0	----	----	----	----	----	28	14,172	−62.9	----	24	13,998	−61.4	----	24	13,900	−54.0	----	9	13,945	−61.2	----
125	20	15,127	−65.8	----	----	----	----	----	----	----	----	----	26	15,286	−66.8	----	21	15,121	−63.7	----	21	15,086	−54.7	----	----	----	----	----
100	16	16,471	−64.8	----	----	----	----	----	----	----	----	----	22	16,624	−68.9	----	16	16,486	−63.0	----	16	16,510	−55.1	----	----	----	----	----
80	12	17,836	−62.3	----	----	----	----	----	----	----	----	----	20	17,962	−67.2	----	12	17,858	−60.4	----	12	17,928	−54.8	----	----	----	----	----
60	5	19,640	−57.6	----	----	----	----	----	----	----	----	----	14	19,734	−61.1	----	9	19,674	−57.4	----	5	19,797	−53.3	----	----	----	----	----
50	----	----	----	----	----	----	----	----	----	----	----	----	10	20,872	−57.4	----	----	----	----	----	----	----	----	----	----	----	----	----
40	----	----	----	----	----	----	----	----	----	----	----	----	8	22,234	−53.6	----	----	----	----	----	----	----	----	----	----	----	----	----

Standard pressure surface (mb.)	Lake Charles, La. (1,013.8 mb.)				Lander, Wyo. (828.8 mb.)				Las Vegas, Nev. (941.4 mb.)				Little Rock, Ark. (1,004.1 mb.)				Mazatlan, Mexico (1,007.5 mb.)				Medford, Oreg. (967.8 mb.)				Merida, Mexico (1,010.4 mb.)			
	Number of observations	Dynamic height	Temperature	Relative humidity	Number of observations	Dynamic height	Temperature	Relative humidity	Number of observations	Dynamic height	Temperature	Relative humidity	Number of observations	Dynamic height	Temperature	Relative humidity	Number of observations	Dynamic height	Temperature	Relative humidity	Number of observations	Dynamic height	Temperature	Relative humidity	Number of observations	Dynamic height	Temperature	Relative humidity
Surface	30	5	25.3	82	30	1,696	17.5	51	30	574	31.2	14	30	79	25.0	74	23	14	28.2	74	30	401	19.7	62	30	27	26.3	78
1,000	30	126	25.7	77	30	54	(*)	----	30	26	(*)	----	30	115	25.1	72	23	80	27.5	74	30	569	19.2	59	30	118	25.8	78
950	30	577	23.3	70	30	512	(*)	----	30	496	(*)	----	30	570	24.8	63	23	540	23.9	73	30	569	19.2	59	30	571	23.4	77
900	30	1,048	20.7	62	30	988	(*)	----	30	975	28.8	----	30	1,040	21.5	64	23	1,006	22.6	61	30	1,024	16.2	60	30	1,041	20.8	74
850	30	1,540	17.7	61	30	1,478	(*)	----	30	1,478	24.3	----	30	1,533	18.0	66	23	1,503	20.2	65	30	1,507	12.5	65	30	1,534	17.7	74
800	30	2,057	15.1	52	30	1,998	16.7	46	30	2,003	19.5	21	30	2,050	14.8	63	23	2,024	17.2	68	30	2,012	8.9	68	30	2,051	14.8	69
750	30	2,603	12.1	44	30	2,546	12.5	49	30	2,556	14.5	25	30	2,598	12.3	52	23	2,582	14.3	66	30	2,548	5.6	64	30	2,596	11.8	65
700	30	3,177	8.7	44	30	3,119	7.8	54	30	3,129	9.2	30	30	3,169	8.8	49	23	3,154	10.9	65	30	3,105	2.0	62	30	3,170	8.7	60
650	29	3,788	4.8	40	30	3,727	3.1	60	30	3,742	4.1	34	30	3,781	5.0	45	23	3,773	6.8	70	30	3,702	−1.3	55	30	3,782	5.8	51
600	28	4,434	.8	38	30	4,368	−1.7	62	30	4,383	−.9	36	30	4,428	1.2	37	23	4,422	2.5	75	30	4,334	−4.9	52	30	4,432	1.9	49
550	28	5,127	−3.5	37	30	5,055	−7.0	63	30	5,073	−5.3	----	30	5,123	−3.4	40	23	5,121	−2.1	73	29	5,014	−9.0	50	30	5,126	−2.2	50
500	28	5,875	−8.2	----	30	5,791	−12.2	59	30	5,814	−10.0	----	30	5,869	−8.2	----	23	5,874	−6.5	63	29	5,747	−13.9	48	30	5,880	−6.7	47
450	27	6,692	−13.3	----	29	6,596	−18.1	52	30	6,629	−15.5	----	30	6,688	−13.2	----	23	6,700	−11.1	46	28	6,541	−19.1	46	30	6,699	−12.1	49
400	26	7,573	−19.2	----	28	7,451	−24.7	----	30	7,495	−21.9	----	30	7,567	−19.4	----	22	7,588	−16.4	----	28	7,405	−25.2	----	29	7,585	−17.8	52
350	26	8,552	−26.1	----	28	8,408	−31.9	----	30	8,462	−29.7	----	30	8,545	−26.6	----	20	8,576	−23.6	----	28	8,359	−32.9	----	29	8,570	−25.0	----
300	26	9,648	−34.7	----	28	9,477	−40.7	----	29	9,546	−38.0	----	30	9,640	−34.6	----	20	9,685	−32.0	----	28	9,425	−40.8	----	29	9,670	−33.6	----
250	25	10,894	−44.7	----	28	10,691	−50.8	----	28	10,771	−47.7	----	30	10,889	−43.9	----	19	10,945	−41.3	----	28	10,643	−49.2	----	28	10,923	−43.7	----
200	25	12,350	−55.9	----	22	12,126	−57.8	----	24	12,217	−55.1	----	29	12,354	−54.7	----	10	12,412	−54.5	----	27	12,079	−55.6	----	16	12,391	−54.8	----
175	24	13,191	−61.5	----	16	12,962	−57.5	----	19	13,046	−57.7	----	28	13,196	−60.0	----	----	----	----	----	27	12,927	−56.7	----	8	13,216	−61.8	----
150	23	14,138	−67.0	----	8	13,933	−56.3	----	11	13,986	−59.2	----	26	14,145	−64.3	----	----	----	----	----	26	13,906	−57.0	----	----	----	----	----
125	23	15,225	−71.5	----	----	----	----	----	----	----	----	----	19	15,233	−67.4	----	----	----	----	----	26	15,056	−58.4	----	----	----	----	----
100	22	16,537	−73.4	----	----	----	----	----	----	----	----	----	14	16,573	−67.9	----	----	----	----	----	25	16,454	−59.4	----	----	----	----	----
80	15	17,845	−69.8	----	----	----	----	----	----	----	----	----	9	17,930	−65.4	----	----	----	----	----	20	17,844	−59.3	----	----	----	----	----
60	13	19,598	−63.1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	13	19,645	−57.8	----	----	----	----	----
50	10	20,721	−61.0	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	8	20,764	−56.9	----	----	----	----	----
40	6	22,130	−59.2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

See footnotes at end of table.

TABLE 1.—*Mean dynamic height (geopotential) in units of 0.98 dynamic meters, temperature in degrees centigrade, and relative humidity in percent, for standard pressures, as obtained by radiosondes during June 1948*—Continued

Standard pressure surface (mb.)	Miami, Fla. (1,015.9 mb.)				Nantucket, Mass. (1,012.2 mb.)				Nashville, Tenn. (993.5 mb.)				New Orleans, La. (1,014.5 mb.)				North Platte, Nebr. (916.3 mb.)				Oakland, Calif. (1,013.7 mb.)				Ogden, Utah (862.3 mb.)			
	Number of observations	Dynamic height	Temperature	Relative humidity	Number of observations	Dynamic height	Temperature	Relative humidity	Number of observations	Dynamic height	Temperature	Relative humidity	Number of observations	Dynamic height	Temperature	Relative humidity	Number of observations	Dynamic height	Temperature	Relative humidity	Number of observations	Dynamic height	Temperature	Relative humidity	Number of observations	Dynamic height	Temperature	Relative humidity
Surface	30	4	26.0	82	29	14	13.0	93	28	180	24.5	64	30	2	25.8	80	30	849	19.1	72	30	6	16.2	74	30	1,355	20.7	46
1,000	30	144	25.7	79	29	116	14.2	87	28	122	(*)	----	30	129	25.9	76	30	86	(*)	----	30	121	14.9	76	30	50	(*)	----
950	30	596	22.7	78	29	559	15.9	71	28	574	23.6	61	30	581	23.5	71	30	538	(*)	----	30	565	14.2	71	30	512	(*)	----
900	30	1,065	19.8	74	29	1,011	14.1	66	28	1,043	20.2	64	30	1,051	20.7	69	30	1,004	19.6	67	30	1,012	15.9	51	30	986	(*)	----
850	30	1,557	16.9	70	29	1,491	11.5	65	28	1,534	16.6	70	30	1,543	17.8	64	30	1,495	17.0	65	30	1,497	14.0	44	30	1,479	20.7	40
800	30	2,072	14.1	63	29	1,996	8.7	60	28	2,049	13.0	70	30	2,060	14.8	57	30	2,010	13.6	66	30	2,006	11.5	37	30	2,000	17.1	39
750	30	2,618	11.3	55	29	2,532	6.1	52	28	2,595	9.4	65	30	2,606	11.7	46	30	2,555	10.6	65	30	2,547	8.5	34	30	2,551	12.5	43
700	30	3,189	8.2	52	29	3,090	3.5	50	28	3,159	6.2	56	30	3,178	8.4	42	30	3,123	7.1	65	30	3,108	5.3	31	30	3,119	7.6	48
650	30	3,800	4.7	47	29	3,691	.2	51	28	3,766	3.0	45	30	3,787	4.7	38	29	3,731	3.0	61	30	3,714	1.6	34	30	3,726	2.7	54
600	30	4,446	1.0	43	29	4,326	−3.2	50	28	4,407	−1.0	44	30	4,433	.5	40	29	4,374	−1.3	54	30	4,350	−2.4	36	30	4,367	−2.2	57
550	30	5,141	−3.1	41	28	5,008	−7.3	48	28	5,097	−4.9	37	30	5,127	−3.6	35	29	5,060	−5.8	53	30	5,040	−6.8	34	29	5,053	−7.5	59
500	30	5,858	−7.9	42	27	5,749	−11.8	42	28	5,840	−9.6	43	30	5,873	−8.4	----	29	5,803	−10.6	48	30	5,772	−11.9	----	29	5,790	−12.8	51
450	29	6,708	−13.1	41	26	6,553	−17.0	----	28	6,658	−14.6	43	30	6,691	−13.2	----	29	6,609	−16.2	49	30	6,580	−17.3	----	29	6,593	−18.5	46
400	29	7,588	−18.9	----	26	7,421	−22.8	----	27	7,528	−20.5	----	30	7,571	−19.6	----	29	7,481	−22.6	----	30	7,443	−23.6	----	28	7,458	−24.4	----
350	29	8,568	−26.2	----	25	8,387	−29.4	----	27	8,502	−28.2	----	30	8,550	−26.3	----	29	8,448	−29.7	----	30	8,405	−30.7	----	28	8,416	−32.0	----
300	28	9,668	−34.3	----	25	9,470	−37.1	----	26	9,591	−36.0	----	30	9,645	−34.6	----	29	9,528	−38.0	----	30	9,481	−38.9	----	27	9,484	−40.8	----
250	27	10,917	−44.0	----	25	10,705	−46.0	----	25	10,827	−45.7	----	30	10,892	−44.3	----	29	10,758	−47.7	----	30	10,708	−47.7	----	27	10,699	−50.3	----
200	27	12,377	−55.4	----	24	12,162	−55.5	----	22	12,280	−55.5	----	29	12,352	−55.3	----	28	12,198	−57.2	----	30	12,154	−55.0	----	24	12,126	−56.8	----
175	24	13,216	−61.2	----	23	13,012	−58.2	----	21	13,114	−60.3	----	29	13,192	−60.9	----	27	13,036	−60.3	----	30	13,004	−56.1	----	22	12,970	−57.8	----
150	22	14,162	−66.2	----	22	13,982	−59.2	----	16	14,045	−62.7	----	26	14,142	−65.4	----	26	13,997	−61.5	----	29	13,985	−57.7	----	19	13,941	−58.3	----
125	17	15,267	−70.1	----	18	15,116	−60.1	----	9	15,121	−62.0	----	19	15,245	−69.3	----	23	15,124	−62.1	----	24	15,150	−60.7	----	15	15,078	−58.8	----
100	8	16,560	−69.0	----	14	16,501	−58.8	----	----	----	----	----	16	16,562	−71.3	----	18	16,504	−63.8	----	11	16,522	−61.9	----	6	16,476	−61.5	----
80	----	----	----	----	7	17,901	−56.5	----	----	----	----	----	10	17,881	−67.3	----	11	17,880	−62.5	----	----	----	----	----	----	----	----	----
60	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	5	19,682	−58.2	----	----	----	----	----	----	----	----	----

Standard pressure surface (mb.)	Oklahoma City, Okla. (966.8 mb.)				Omaha, Nebr. (976.5 mb.)				Phoenix, Ariz. (968.0 mb.)				Pittsburgh, Pa. (969.4 mb.)				Portland, Maine (1,010.7 mb.)				Rapid City, S. Dak. (902.9 mb.)				St. Cloud, Minn. (976.0 mb.)			
Surface	30	391	23.9	76	30	308	22.6	64	30	339	31.2	21	30	382	19.5	72	30	20	12.7	86	30	980	15.6	82	30	317	17.4	72
1,000	30	91	(*)	----	30	99	(*)	----	30	45	(*)	----	30	112	(*)	----	30	110	13.7	80	30	98	(*)	----	30	107	(*)	----
950	30	545	25.0	66	30	549	21.6	57	30	513	32.6	18	30	562	19.5	68	30	547	14.1	70	30	545	(*)	----	30	550	18.0	64
900	30	1,018	22.9	62	30	1,014	18.4	61	30	990	28.8	18	30	1,021	16.9	66	30	999	12.1	72	30	1,009	(*)	----	30	1,009	15.0	64
850	30	1,515	20.3	59	30	1,502	15.2	65	30	1,493	24.5	20	30	1,506	13.5	68	30	1,477	9.4	73	30	1,495	15.9	64	30	1,491	11.6	67
800	30	2,036	17.2	55	30	2,013	12.4	58	30	2,019	20.1	23	30	2,014	10.1	67	30	1,977	6.4	73	30	2,007	12.4	66	30	1,995	8.4	64
750	30	2,587	13.8	52	30	2,555	9.5	54	30	2,577	15.4	27	30	2,553	6.8	60	30	2,504	2.9	71	30	2,519	9.1	67	30	2,529	6.1	55
700	30	3,163	10.4	43	30	3,122	6.1	49	30	3,150	10.7	32	30	3,112	3.4	59	30	3,069	.4	61	30	3,113	5.6	66	30	3,090	3.3	53
650	30	3,777	6.0	43	30	3,725	2.4	46	30	3,766	6.3	30	30	3,714	.0	57	30	3,652	−2.5	53	30	3,718	1.9	60	30	3,687	−.1	52
600	30	4,426	1.1	45	30	4,368	−1.9	46	29	4,415	2.2	----	29	4,344	−3.8	52	30	4,283	−6.0	49	30	4,359	−2.1	51	30	4,324	−3.8	53
550	28	5,117	−3.6	46	30	5,056	−6.1	43	29	5,116	−2.5	----	28	5,027	−7.6	50	30	4,958	−9.7	48	30	5,043	−6.6	41	30	5,005	−7.4	45
500	27	5,867	−8.4	39	30	5,796	−10.7	38	27	5,864	−7.6	----	28	5,762	−11.9	50	30	5,690	−14.2	52	30	5,783	−11.3	36	30	5,743	−12.0	46
450	26	6,683	−13.4	----	30	6,606	−16.3	----	26	6,687	−13.6	----	28	6,572	−16.9	48	30	6,485	−19.7	55	30	6,589	−17.1	36	30	6,540	−17.5	48
400	25	7,561	−19.7	----	30	7,475	−22.6	----	25	7,561	−20.3	----	28	7,436	−23.1	----	30	7,347	−26.0	----	30	7,456	−23.4	----	29	7,415	−23.9	----
350	25	8,538	−26.9	----	30	8,441	−29.9	----	24	8,535	−28.2	----	28	8,399	−30.4	----	30	8,300	−32.8	----	30	8,418	−30.9	----	29	8,375	−31.2	----
300	25	9,631	−35.2	----	30	9,522	−37.7	----	24	9,623	−36.6	----	28	9,477	−33.6	----	30	9,368	−40.2	----	30	9,491	−39.4	----	29	9,450	−39.4	----
250	24	10,875	−44.0	----	30	10,755	−47.2	----	23	10,864	−46.0	----	27	10,706	−47.5	----	30	10,589	−48.1	----	30	10,712	−49.0	----	29	10,673	−48.4	----
200	23	12,342	−54.6	----	30	12,200	−56.5	----	23	12,318	−55.2	----	24	12,184	−56.7	----	28	12,029	−55.5	----	30	12,147	−56.8	----	22	12,110	−56.1	----
175	22	13,182	−59.7	----	30	13,039	−60.0	----	22	13,158	−59.8	----	22	13,036	−60.5	----	27	12,881	−56.4	----	30	12,990	−57.4	----	16	12,958	−57.0	----
150	18	14,138	−63.7	----	29	13,996	−61.0	----	14	14,133	−64.2	----	20	13,997	−63.3	----	26	13,859	−57.3	----	29	13,964	−57.0	----	12	13,951	−56.9	----
125	12	15,254	−67.3	----	27	15,125	−62.9	----	----	----	----	----	13	15,156	−65.7	----	26	15,007	−58.8	----	26	15,120	−57.8	----	----	----	----	----
100	5	16,595	−66.3	----	25	16,494	−63.1	----	----	----	----	----	10	16,526	−67.0	----	25	16,398	−58.8	----	18	16,512	−58.4	----	----	----	----	----
80	----	----	----	----	17	17,875	−61.9	----	----	----	----	----	9	17,893	−62.1	----	16	17,789	−56.9	----	8	17,931	−57.8	----	----	----	----	----
60	----	----	----	----	12	19,690	−57.3	----	----	----	----	----	7	19,694	−58.6	----	9	19,640	−55.6	----	----	----	----	----	----	----	----	----
50	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	7	20,812	−54.0	----	----	----	----	----	----	----	----	----

Standard pressure surface (mb.)	San Antonio, Tex. (983.9 mb.)				San Juan, P. R. (1,015.2 mb.)				Santa Maria, Calif. (1,005.8 mb.)				Sault Ste. Marie, Mich. (986.9 mb.)				Spokane, Wash. (930.6 mb.)				Swan Island, W. I. (1,012.3 mb.)				Tacubaya, Mexico (773.8 mb.)			
Surface	30	240	28.6	57	30	15	26.3	83	30	71	15.8	75	30	221	11.6	77	30	721	21.1	56	30	10	26.8	85	30	2,306	17.6	
1,000	30	96	(*)	----	30	149	25.5	83	30	120	15.1	77	30	109	(*)	----	30	92	(*)	----	30	118	26.3	84	30	47	(*)	64
950	30	559	27.0	56	30	599	22.6	83	30	559	13.3	78	30	546	14.8	59	30	542	(*)	----	30	575	23.2	84	30	513	(*)	----
900	30	1,028	23.5	61	30	1,070	19.7	80	30	1,010	15.6	53	30	998	12.9	54	30	1,009	18.7	57	30	1,041	20.4	79	30	991	(*)	----
850	30	1,525	20.2	61	30	1,561	16.9	73	30	1,496	15.5	45	30	1,476	10.1	56	30	1,497	14.8	59	30	1,534	17.7	72	30	1,489	(*)	----
800	30	2,046	17.1	59	30	2,076	14.4	63	30	2,007	12.7	40	30	1,978	7.0	61	30	2,007	10.9	61	30	2,051	14.9	66	30	2,018	(*)	----
750	30	2,601	13.7	54	30	2,621	11.7	54	30	2,548	9.6	35	30	2,508	3.9	59	30	2,545	6.9	64	30	2,599	11.9	64	30	2,570	15.5	65
700	30	3,172	10.1	49	30	3,195	8.5	53	30	3,115	6.8	29	30	3,065	1.1	49	30	3,105	2.9	63	30	3,171	8.8	59	30	3,154	10.8	72
650	28	3,790	6.3	47	30	3,808	4.9	54	30	3,719	3.3	----	30	3,660	−2.2	45	30	3,703	−.8	58	30	3,785	5.1	57	30	3,771	6.0	78
600	28	4,436	2.2	43	30	4,453	1.2	45	30	4,363	−.6	----	30	4,290	−5.6	41	30	4,336	−4.8	49	30	4,431	1.4	56	30	4,421	1.5	81
550	28	5,136	−2.0	42	29	5,152	−2.8	41	30	5,053	−4.8	----	30	4,969	−9.6	40	30	5,017	−9.2	48	30	5,128	−2.8	61	30	5,121	−2.9	78
500	28	5,885	−6.4	43	29	5,899	−7.1	41	30	5,795	−10.0	----	29	5,694	−14.3	43	30	5,746	−14.1	45	29	5,876	−7.0	53	30	5,869	−6.7	65
450	27	6,712	−11.3	----	29	6,724	−12.0	41	30	6,608	−15.7	----	29	6,492	−19.6	46	30	6,541	−19.8	44	29	6,703	−11.7	51	30	6,698	−11.2	58
400	27	7,595	−17.6	----	29	7,605	−17.9	42	30	7,477	−22.4	----	29	7,352	−25.5	----	30	7,400	−26.0	----	29	7,585	−17.6	53	29	7,582	−16.7	54
350	26	8,582	−24.9	----	29	8,589	−25.1	----	30	8,442	−29.8	----	29	8,308	−32.3	----	30	8,352	−33.6	----	29	8,571	−24.3	----	27	8,570	−24.2	----
300	26	9,684	−33.1	----	29	9,690	−33.6	----	30	9,523	−38.0	----	29	9,378	−40.2	----	30	9,414	−42.1	----	29	9,675	−32.9	----	26	9,675	−32.9	----
250	26	10,939	−42.8	----	29	10,942	−43.9	----	30	10,754	−46.8	----	28	10,591	−49.3	----	30	10,621	−51.6	----	29	10,929	−43.4	----	25	10,931	−43.2	----
200	26	12,407	−54.0	----	29	12,400	−56.1	----	29	12,202	−54.9	----	23	12,045	−54.5	----	30	12,050	−55.4	----	29	12,389	−55.9	----	12	12,402	−55.4	----
175	26	13,251	−59.9	----	29	13,236	−62.6	----	24	13,065	−57.3	----	20	12,897	−55.0	----	30	12,901	−55.3	----	28	13,225	−63.0	----	5	13,242	−62.5	----
150	24	14,200	−65.5	----	25	14,175	−68.6	----	24	14,032	−60.2	----	16	13,855	−54.2	----	29	13,886	−55.0	----	25	14,156	−70.6	----	----	----	----	----
125	15	15,313	−69.6	----	21	15,254	−73.5	----	20	15,151	−62.9	----	5	14,995	−54.3	----	27	15,054	−55.3	----	----	----	----	----	----	----	----	----
100	----	----	----	----	16	16,562	−72.9	----	16	16,507	−63.8	----	----	----	----	----	25	16,472	−56.1	----	----	----	----	----	----	----	----	----
80	----	----	----	----	7	17,899	−69.4	----	11	17,862	−62.1	----	----	----	----	----	22	17,888	−56.1	----	----	----	----	----	----	----	----	----
60	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	15	19,737	−54.9	----	----	----	----	----	----	----	----	----
50	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	11	20,916	−52.7	----	----	----	----	----	----	----	----	----

See footnotes at end of table.

TABLE 1.—*Mean dynamic height (geopotential) in units of 0.98 dynamic meters, temperature in degrees centigrade, and relative humidity in percent, for standard pressures, as obtained by radiosondes during June 1948*—Continued

Standard pressure surface (mb.)	Tampa, Fla (1,015.4 mb.)				Tatoosh Island, (1,014.1 mb.) Wash.				Toledo, Ohio (990.5 mb.)				Washington, D. C. (1,011.1 mb.)			
	Number of observations	Dynamic height	Temperature	Relative humidity	Number of observations	Dynamic height	Temperature	Relative humidity	Number of observations	Dynamic height	Temperature	Relative humidity	Number of observations	Dynamic height	Temperature	Relative humidity
Surface	29	9	25.6	80	30	31	13.0	88	30	191	18.3	73	30	25	21.6	76
1,000	29	144	25.2	80	30	149	12.7	85	30	108	(*)	----	30	121	22.1	70
950	29	597	22.6	76	30	584	12.2	73	30	556	18.4	64	30	571	20.7	61
900	29	1,064	20.0	68	30	1,033	11.9	58	30	1,013	15.7	65	30	1,033	18.1	62
850	29	1,555	16.7	68	30	1,510	9.9	57	30	1,496	12.8	68	30	1,520	14.8	66
800	29	2,069	13.3	68	30	2,012	7.3	54	30	2,003	9.6	66	30	2,031	11.5	65
750	29	2,611	9.9	63	30	2,546	4.6	48	30	2,544	6.4	64	30	2,570	8.2	62
700	29	3,180	6.8	54	30	3,100	1.5	50	30	3,099	3.2	61	30	3,135	4.9	59
650	29	3,783	3.3	51	30	3,697	−1.6	45	30	3,703	−.1	59	30	3,741	1.4	58
600	29	4,431	−.7	50	30	4,327	−5.3	42	30	4,334	−3.6	54	30	4,377	−2.3	55
550	29	5,121	−4.5	46	30	5,007	−9.4	43	30	5,021	−7.4	53	30	5,067	−6.3	55
500	29	5,866	−8.7	43	30	5,735	−14.0	41	30	5,755	−11.9	49	30	5,802	−10.8	51
450	29	6,681	−13.9	44	29	6,535	−19.7	41	29	6,564	−16.9	47	30	6,610	−15.9	43
400	29	7,560	−19.7	----	29	7,393	−26.0	----	29	7,429	−22.9	----	30	7,483	−21.8	----
350	29	8,537	−26.7	----	29	8,346	−32.9	----	28	8,394	−29.9	----	30	8,451	−29.1	----
300	28	9,630	−35.1	----	29	9,412	−40.7	----	28	9,474	−38.1	----	30	9,534	−37.3	----
250	28	10,875	−44.7	----	28	10,624	−49.2	----	28	10,703	−47.9	----	30	10,768	−46.3	----
200	28	12,332	−55.4	----	27	12,070	−54.9	----	28	12,143	−56.9	----	28	12,224	−55.9	----
175	28	13,172	−60.9	----	25	12,928	−55.6	----	28	12,982	−59.8	----	26	13,064	−59.5	----
150	28	14,118	−65.8	----	24	13,908	−54.4	----	26	13,940	−61.4	----	23	14,018	−61.6	----
125	28	15,214	−69.4	----	24	15,073	−54.7	----	17	15,013	−59.6	----	14	15,126	−62.5	----
100	24	16,526	−70.4	----	23	16,494	−55.3	----	11	16,417	−61.3	----	11	16,467	−60.7	----
80	22	17,851	−67.2	----	21	17,915	−55.0	----	6	17,799	−59.7	----	----	------	------	----
60	19	19,599	−63.0	----	15	19,769	−53.3	----	5	19,605	−58.1	----	----	------	------	----
50	13	20,726	−60.2	----	10	20,914	−52.9	----	----	------	------	----	----	------	------	----
40	----	------	------	----	6	22,347	−51.8	----	----	------	------	----	----	------	------	----

[1] Data not yet received.
[2] Insufficient observations.
(*) Temperature and relative humidity data for this level are not available or are available only for certain days. See note entitled "Change in Summarization of Radiosonde Data," p. 6, in the January 1946 issue of the MONTHLY WEATHER REVIEW.

NOTE.—All observations scheduled between 0300 and 0500, G. C. T. except at Ciudad Victoria, Mazatlan, and Merida, where they are taken near 0200, G. C. T.

"Number of observations" refers to those of dynamic height only. (In a few cases temperature or humidity data may be missing for one or more standard pressure surfaces of some observations.) Relative humidity data are not published for standard pressure surfaces having a corresponding mean temperature below −20° C.

All relative humidity observations are obtained by electric hygrometer and have been adjusted to compensate for the values occurring below the operating range of the humidity element. For explanation of the adjustment see article entitled "Curve Method for Obtaining Monthly Means of Relative Humidity," p. 241, MONTHLY WEATHER REVIEW, December 1944.

None of the means included in these tables is based on less than 15 observations at the surface or 5 observations at a standard pressure level.

TABLE 2.—*Free-air resultant winds based on pilot balloon observations made near 2200 G. C. T., during June 1948. Directions given in degrees from north (N=360°, E=90°, S=180°, W=270°). Speeds in meters per second*

Altitude (meters) m. s. l.	Abilene, Tex. (534 m.)			Albuquerque, N.Mex. (1,627 m.)			Atlanta, Ga. (299 m.)			Billings, Mont. (1,095 m.)			Bismarck, N. Dak. (512 m.)			Boise, Idaho (868 m.)		
	Observations	Direction	Speed	Observations	Direction	Speed	Observations	Direction	Speed	Observations	Direction	Speed	Observations	Direction	Speed	Observations	Direction	Speed
Surface	30	163	3.7	30	246	2.3	30	268	2.5	30	28	2.3	30	329	0.6	30	318	3.8
500	----	----	----	----	----	----	30	272	3.4	----	----	----	----	----	----	----	----	----
1,000	30	172	4.7	----	----	----	30	274	3.5	----	----	----	30	349	1.0	30	313	4.0
1,500	30	177	4.3	----	----	----	30	275	4.1	30	31	2.1	30	312	1.3	30	313	3.5
2,000	29	181	4.6	30	247	3.3	27	288	5.0	29	48	1.2	28	313	2.6	30	315	2.1
2,500	28	185	3.9	30	245	3.4	26	295	3.8	25	275	1.1	22	312	4.0	30	297	1.4
3,000	27	197	2.3	30	238	3.7	25	302	4.9	22	274	3.2	15	310	4.8	29	235	1.2
4,000	26	277	1.6	30	243	6.3	18	294	6.9	16	255	5.6	15	306	8.6	26	192	3.3
5,000	24	304	3.7	29	242	9.4	13	300	7.3	13	267	6.9	11	305	9.2	22	218	5.5
6,000	21	304	5.1	28	249	11.4	11	280	7.5	----	----	----	----	----	----	22	223	7.0
8,000	14	300	7.2	24	247	12.9	----	----	----	----	----	----	----	----	----	----	----	----
10,000	----	----	----	15	254	16.3	----	----	----	----	----	----	----	----	----	----	----	----
12,000	----	----	----	12	267	20.8	----	----	----	----	----	----	----	----	----	----	----	----

Altitude (meters) m. s. l.	Brownsville, Tex. (7 m.)			Buffalo, N. Y. (220 m.)			Burlington, Vt. (100 m.)			Charleston, S. C. (16 m.)			Cincinnati, Ohio (273 m.)			Denver, Colo. (1,618 m.)			El Paso, Tex. (1,198 m.)		
	Observations	Direction	Speed	Observations	Direction	Speed	Observations	Direction	Speed	Observations	Direction	Speed	Observations	Direction	Speed	Observations	Direction	Speed	Observations	Direction	Speed
Surface	30	135	6.6	29	247	4.3	29	293	1.0	30	188	2.5	30	252	2.2	30	86	1.9	30	228	2.0
500	30	141	8.1	29	252	5.6	29	289	2.0	30	208	4.0	30	259	3.2	----	----	----	----	----	----
1,000	28	150	6.5	29	260	6.9	28	286	3.3	30	241	3.2	30	269	4.8	----	----	----	----	----	----
1,500	26	146	4.8	27	270	6.8	26	278	6.0	30	265	3.4	29	270	5.9	----	----	----	30	230	2.6
2,000	24	145	3.6	25	273	8.1	25	278	7.6	28	282	4.5	26	285	6.0	30	75	2.5	30	233	3.3
2,500	24	139	2.9	23	277	8.7	21	288	8.6	27	285	5.5	24	279	8.4	30	110	1.8	30	235	3.9
3,000	22	120	2.8	21	281	10.2	17	291	9.8	26	280	5.6	18	276	9.8	29	184	1.6	30	235	3.9
4,000	21	99	1.9	----	----	----	10	285	13.0	21	280	5.5	----	----	----	27	257	4.8	30	244	4.3
5,000	19	33	2.0	----	----	----	----	----	----	17	280	5.1	----	----	----	26	268	8.3	29	238	4.8
6,000	18	346	1.9	----	----	----	----	----	----	15	278	5.9	----	----	----	25	265	10.0	24	237	4.7
8,000	14	321	6.3	----	----	----	----	----	----	11	275	6.1	----	----	----	18	272	11.1	20	261	9.8
10,000	11	322	11.7	----	----	----	----	----	----	----	----	----	----	----	----	13	265	17.1	14	282	16.1
12,000	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	10	252	21.3	10	273	19.5

Altitude (meters) m. s. l.	Ely, Nev. (1,910 m.)			Grand Junction, Colo. (1,475 m.)			Greensboro, N. C. (271 m.)			Havre, Mont. (767 m.)			Jacksonville, Fla. (16 m.)			Joliet, Ill. (178 m.)		
	Observations	Direction	Speed	Observations	Direction	Speed	Observations	Direction	Speed	Observations	Direction	Speed	Observations	Direction	Speed	Observations	Direction	Speed
Surface	30	186	4.8	30	272	1.7	29	256	0.6	28	103	0.9	28	115	3.4	30	291	1.4
500	----	----	----	----	----	----	29	271	1.9	----	----	----	28	154	1.9	30	287	1.7
1,000	----	----	----	----	----	----	29	277	3.5	28	80	1.7	27	220	1.7	25	277	2.6
1,500	----	----	----	30	268	1.8	28	285	4.6	28	69	1.7	25	260	2.8	23	277	5.0
2,000	30	184	4.9	30	256	2.7	25	277	5.9	24	233	.5	24	280	2.9	21	264	6.5
2,500	30	190	5.5	30	232	3.2	23	283	7.2	21	303	1.7	24	275	3.8	17	268	7.1
3,000	28	190	5.5	30	212	4.9	20	283	8.4	17	299	2.9	23	283	3.9	16	271	8.3
4,000	23	201	5.9	28	224	6.1	16	285	10.2	----	----	----	21	284	3.0	12	291	8.4
5,000	21	218	8.1	28	228	8.3	14	277	12.4	----	----	----	17	266	2.0	----	----	----
6,000	17	220	11.3	25	239	10.3	----	----	----	----	----	----	14	264	2.1	----	----	----
8,000	12	220	15.1	19	245	13.9	----	----	----	----	----	----	----	----	----	----	----	----
10,000	----	----	----	14	257	17.7	----	----	----	----	----	----	----	----	----	----	----	----
12,000	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

Altitude (meters) m. s. l.	Las Vegas, Nev. (575 m.)			Little Rock, Ark. (88 m.)			Medford, Oreg. (416 m.)			Miami, Fla. (12 m.)			Mobile, Ala. (66 m.)			Nashville, Tenn. (194 m.)			New York N. Y. (15 m.)		
	Observations	Direction	Speed	Observations	Direction	Speed	Observations	Direction	Speed	Observations	Direction	Speed	Observations	Direction	Speed	Observations	Direction	Speed	Observations	Direction	Speed
Surface	30	201	2.7	29	221	1.8	30	308	2.3	30	117	3.5	29	189	2.8	30	269	2.8	28	190	1.9
500	----	----	----	29	229	3.3	30	310	2.4	30	118	3.7	29	216	2.5	30	279	4.1	28	246	3.3
1,000	30	198	5.1	29	243	4.4	30	318	2.7	30	107	2.2	29	216	2.8	30	271	4.6	27	279	3.8
1,500	30	193	5.5	28	253	5.9	30	302	1.8	30	97	.4	28	247	1.4	29	274	4.7	27	290	5.8
2,000	30	195	5.5	26	266	6.2	28	214	.7	29	285	.5	21	268	1.1	28	278	5.3	27	285	7.8
2,500	30	203	5.4	22	270	6.7	28	132	1.2	28	284	1.0	17	301	1.0	26	279	7.1	21	291	7.5
3,000	30	207	6.1	21	273	6.0	27	103	1.9	25	249	1.1	17	303	.9	24	276	8.6	17	299	9.2
4,000	29	229	7.6	18	285	8.1	21	41	1.1	22	222	2.3	11	318	1.0	18	275	11.3	----	----	----
5,000	28	249	9.6	16	300	7.8	19	317	2.3	17	210	1.9	----	----	----	12	271	14.5	----	----	----
6,000	28	249	10.7	12	317	7.5	16	339	4.7	16	233	2.0	----	----	----	----	----	----	----	----	----
8,000	21	246	14.8	----	----	----	11	336	2.4	13	243	6.2	----	----	----	----	----	----	----	----	----
10,000	18	247	21.5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
12,000	12	258	25.4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

TABLE 2.—*Free-air resultant winds based on pilot balloon observations made near 2200 G. C. T., during June 1948. Directions given in degrees from north (N=360°, E=90°, S=180°, W=270°). Speeds in meters per second*—Continued

Altitude (meters) m. s. l.	Oakland, Calif. (8 m.)			Oklahoma City, Okla. (396 m.)			Omaha, Nebr. (306 m.)			Phoenix, Ariz. (338 m.)			Rapid City, S. Dak. (982 m.)			St. Cloud, Minn. (318 m.)			St. Louis, Mo. (181 m.)			San Antonio, Tex. (240 m.)			San Diego, Calif. (13 m.)			Sault Ste. Marie, Mich. (225 m.)			Seattle, Wash. (116 m.)			Spokane, Wash. (725 m.)			Washington, D. C. (24 m.)		
	Observations	Direction	Speed	Observations	Direction	Speed	Observations	Direction	Speed	Observations	Direction	Speed	Observations	Direction	Speed	Observations	Direction	Speed	Observations	Direction	Speed	Observations	Direction	Speed	Observations	Direction	Speed	Observations	Direction	Speed	Observations	Direction	Speed	Observations	Direction	Speed	Observations	Direction	Speed
Surface	30	274	5.1	29	165	3.5	30	22	0.8	30	250	1.7	29	56	1.5	30	299	2.3	29	258	2.3	30	144	4.0	29	260	3.3	25	294	4.6	29	266	1.4	30	222	1.6	30	244	0.9
500	30	274	5.1	29	165	4.1	30	10	.6	30	247	2.6	---	---	---	30	295	2.4	29	260	3.4	30	156	4.8	29	262	2.9	25	298	6.0	29	293	1.5	---	---	---	30	245	2.2
1,000	28	273	2.5	29	183	5.5	28	336	1.8	30	243	3.6	29	57	1.5	30	287	2.8	29	257	4.8	30	148	5.4	24	241	1.2	25	298	6.0	28	280	1.1	30	231	2.1	29	243	3.3
1,500	26	276	1.4	29	196	6.1	27	303	2.2	30	224	3.7	29	58	.6	27	275	3.2	28	263	6.3	30	146	5.5	22	270	1.7	22	295	6.3	20	304	1.1	29	231	1.9	29	262	3.8
2,000	25	261	.8	25	222	5.9	22	288	4.1	30	209	4.7	27	265	.9	20	290	3.7	27	272	7.1	29	143	5.0	21	252	2.2	21	293	6.3	16	269	.1	28	240	2.0	27	273	6.0
2,500	25	358	.5	25	242	5.6	20	298	6.0	30	205	6.4	22	271	3.1	16	315	3.7	25	275	8.3	28	152	4.0	20	237	3.8	20	292	7.7	14	233	1.0	27	242	1.7	26	281	7.8
3,000	25	317	.5	22	266	6.5	19	301	8.4	30	211	7.2	19	295	5.4	13	302	4.5	23	285	8.7	27	158	3.0	20	230	4.9	18	293	8.2	10	216	3.5	23	232	2.4	25	288	9.6
4,000	24	294	3.5	20	280	8.5	17	299	11.2	30	215	9.2	17	285	8.8	11	297	5.5	19	284	10.1	20	49	1.1	17	225	7.2	14	308	12.5	10	232	4.2	18	251	2.8	19	296	11.5
5,000	23	286	5.6	17	285	8.9	14	296	11.1	27	222	10.7	13	281	10.5	10	296	8.8	12	308	13.6	16	2	2.8	16	228	9.6	10	307	11.6	10	227	5.2	13	271	4.3	15	283	12.9
6,000	22	289	8.3	13	305	8.1	14	304	10.4	25	222	13.3	---	---	---	---	---	---	10	302	15.8	15	340	4.2	16	233	11.4	---	---	---	---	---	---	10	291	5.4	10	280	11.8
8,000	16	287	8.5	---	---	---	12	301	12.8	17	232	19.1	---	---	---	---	---	---	---	---	---	11	320	7.9	13	232	17.2	---	---	---	---	---	---	---	---	---	---	---	---
10,000	---	---	---	---	---	---	10	301	17.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

TABLE 3.—*Free-air resultant winds based on rawin observations made near 0300 G. C. T., during June 1948. Directions given in degrees from north (N=360°, E=90°, S=180°, W=270°). Speeds in meters per second*

Altitude (meters) m. s. l.	Albuquerque, N. Mex. (1,636 m.)			Big Spring, Tex. (774 m.)			Bismarck, N. Dak. (505 m.)			Brownsville, Tex. (7 m.)			Caribou, Maine (191 m.)			Charleston, S. C. (13 m.)			Columbia, Mo. (237 m.)			Grand Junction, Colo. (1,473 m.)			Greensboro, N. C. (275 m.)			Hatteras, N. C. (3 m.)			International Falls, Minn. (358 m.)			Little Rock, Ark. (80 m.)			Miami, Fla. (12 m.)		
	Observations	Direction	Speed	Observations	Direction	Speed	Observations	Direction	Speed	Observations	Direction	Speed	Observations	Direction	Speed	Observations	Direction	Speed	Observations	Direction	Speed	Observations	Direction	Speed	Observations	Direction	Speed	Observations	Direction	Speed	Observations	Direction	Speed	Observations	Direction	Speed	Observations	Direction	Speed
Surface	30	164	1.6	30	146	4.7	30	57	1.7	30	131	4.9	30	292	1.2	30	178	1.4	30	148	1.4	30	239	0.7	29	242	0.7	30	216	1.9	30	304	0.7	30	189	1.1	30	112	1.3
500	---	---	---	---	---	---	---	---	---	30	141	10.7	29	289	2.3	30	220	4.3	30	187	2.2	---	---	---	29	234	2.1	29	227	3.9	30	315	1.6	30	192	3.6	30	135	3.2
1,000	---	---	---	30	157	8.4	30	62	1.7	30	146	9.5	29	288	3.8	30	247	2.9	30	254	2.6	---	---	---	29	282	3.3	29	262	3.9	30	328	3.6	30	206	3.5	30	128	2.8
1,500	---	---	---	30	169	9.1	30	53	2.1	30	144	8.4	29	281	5.5	30	277	3.0	30	262	4.5	30	248	.9	29	282	4.2	29	273	4.8	30	320	3.4	30	219	3.7	30	115	2.2
2,000	30	236	3.6	30	181	6.6	30	337	2.1	30	142	5.9	29	288	6.9	30	298	4.0	30	272	5.4	30	245	3.2	28	293	4.6	29	272	5.0	30	312	4.7	30	229	3.8	30	107	1.9
2,500	30	247	4.7	30	192	3.3	30	360	2.6	30	137	4.6	30	288	7.3	30	301	4.4	30	287	6.1	30	231	3.8	27	299	4.8	29	271	5.4	29	308	5.4	30	253	3.6	30	119	1.4
3,000	30	251	5.4	30	239	2.2	30	309	4.6	30	127	3.8	30	284	8.0	30	299	4.7	30	293	7.0	30	231	3.7	26	299	5.5	29	273	5.8	28	308	5.8	30	266	4.3	30	148	1.2
4,000	30	247	6.4	30	328	3.7	30	300	7.3	30	104	1.2	28	270	8.3	29	296	3.7	30	291	9.5	30	231	5.1	23	292	8.7	29	271	6.5	28	294	7.8	30	276	6.0	30	202	1.7
5,000	30	247	8.4	30	321	4.9	30	302	9.7	30	74	2.1	28	289	11.4	27	294	4.3	29	295	10.7	30	233	7.1	21	287	8.8	27	280	7.9	27	298	9.9	30	280	6.6	30	224	2.4
6,000	30	248	10.3	30	295	5.2	30	300	10.6	30	20	2.4	28	272	11.5	27	273	5.8	29	292	10.8	30	241	9.1	19	288	9.7	25	273	7.7	25	294	12.0	30	282	7.0	30	251	3.6
8,000	26	248	16.1	30	272	8.3	28	288	14.1	30	341	4.7	24	271	15.0	27	266	6.8	29	276	13.7	29	245	11.2	18	288	8.2	24	266	9.1	22	280	15.8	30	281	9.5	29	243	6.4
10,000	---	---	---	30	270	13.3	28	276	17.2	30	327	9.2	18	281	17.5	26	262	7.0	27	265	17.3	28	255	12.7	17	281	7.9	20	287	11.1	21	267	19.4	29	285	11.7	25	250	8.5
12,000	---	---	---	29	267	15.3	24	261	20.0	27	323	13.2	---	---	---	22	259	6.8	26	261	18.8	21	245	17.4	16	257	10.8	17	290	13.2	19	264	22.8	25	271	15.4	24	242	12.5
14,000	---	---	---	28	268	15.1	20	267	14.5	24	316	10.5	---	---	---	21	277	4.7	13	281	19.2	14	249	15.7	14	275	11.3	---	---	---	12	279	15.1	21	281	18.4	---	---	---
16,000	---	---	---	15	272	9.7	16	283	9.4	14	346	4.6	---	---	---	11	269	5.0	---	---	---	10	248	9.3	11	284	3.4	---	---	---	---	---	---	10	293	10.4	---	---	---

Altitude (meters) m. s. l.	Nantucket, Mass. (14 m.)			Nashville, Tenn. (177 m.)			New Orleans, La. (6 m.)			Oakland, Calif. (31 m.)			Oklahoma City, Okla. (392 m.)			Rapid City, S. Dak. (980 m.)			St. Cloud, Minn. (318 m.)			San Antonio, Tex. (242 m.)			San Juan, P. R. (28 m.)			Santa Maria, Calif. (72 m.)			Sault Ste. Marie, Mich. (224 m.)			Spokane, Wash. (726 m.)			Tatoosh Island, Wash. (33 m.)		
Surface	28	204	1.4	30	204	1.2	30	193	2.0	30	279	5.4	28	145	2.7	30	114	0.7	30	16	0.7	30	143	6.1	30	124	2.9	30	275	4.4	30	289	1.8	30	221	0.9	30	227	2.6
500	28	254	4.1	30	268	1.1	30	201	3.2	30	285	5.1	28	152	4.0	---	---	---	30	18	.3	30	139	7.7	30	101	7.9	30	311	3.8	30	319	3.8	---	---	---	29	275	4.3
1,000	28	273	4.3	30	269	2.6	29	159	1.4	30	333	7.6	26	176	5.7	30	107	.7	30	315	.6	30	146	7.9	30	104	8.2	30	319	3.7	30	307	3.9	30	323	1.0	28	282	2.5
1,500	28	279	5.6	30	269	4.0	29	82	2.5	30	275	1.7	24	196	5.5	30	212	.8	29	299	2.3	30	155	5.1	30	103	7.7	30	12	1.6	29	292	3.7	30	304	1.1	28	228	3.2
2,000	27	276	6.0	30	268	5.2	29	76	2.9	30	300	.6	23	221	5.1	30	283	1.5	29	310	3.8	29	169	3.4	30	101	7.4	30	63	1.4	29	289	4.9	30	239	1.8	28	277	.2
2,500	28	273	7.3	30	271	5.9	29	58	2.1	30	339	.8	24	246	4.9	30	291	3.6	29	308	4.4	29	167	2.7	30	99	6.9	30	208	.2	28	287	6.5	30	263	1.7	28	236	1.4
3,000	26	276	9.0	28	273	5.9	29	41	2.0	30	279	1.3	24	269	4.5	30	298	6.0	29	300	4.8	29	153	1.9	30	97	6.4	30	263	1.9	28	281	7.6	30	265	2.1	28	260	2.8
4,000	26	271	11.1	28	286	7.8	30	344	2.3	30	287	3.2	25	297	6.5	30	299	9.4	29	288	7.9	28	69	.9	30	103	5.3	30	269	4.6	28	289	9.5	30	255	3.4	27	261	4.0
5,000	26	274	12.4	28	302	9.6	30	328	3.2	30	285	4.8	27	290	7.5	30	290	11.3	29	283	10.5	27	11	2.4	29	88	4.8	30	263	7.0	25	292	11.4	30	253	4.1	27	262	6.2
6,000	25	279	13.6	27	303	9.7	28	343	3.9	30	280	6.9	25	284	8.6	30	287	12.1	28	278	11.9	27	332	2.8	29	85	5.3	30	256	9.1	25	293	15.6	30	246	3.7	27	262	6.8
8,000	21	282	17.8	24	293	9.4	28	330	5.4	27	280	9.8	23	291	12.6	30	282	14.9	27	276	15.6	26	311	6.0	29	68	3.4	29	254	11.8	22	286	21.2	29	246	4.5	22	258	4.9
10,000	18	296	20.4	20	298	14.0	27	333	6.8	22	289	11.5	22	275	18.1	30	268	17.5	25	273	20.3	26	297	9.4	29	26	2.9	23	264	14.2	10	289	23.1	24	203	5.5	19	236	2.9
12,000	12	279	19.5	13	279	16.4	24	342	7.0	17	285	11.6	18	277	20.1	27	255	18.7	17	260	21.6	26	297	13.1	29	348	6.3	13	266	15.2	---	---	---	16	199	7.1	15	311	6.2
14,000	---	---	---	---	---	---	23	340	7.9	---	---	---	14	282	21.3	25	265	15.6	---	---	---	22	293	16.0	25	345	8.3	---	---	---	---	---	---	14	242	4.4	12	256	4.1
16,000	---	---	---	---	---	---	11	332	8.6	---	---	---	---	---	---	16	263	10.6	---	---	---	---	---	---	18	9	1.8	---	---	---	---	---	---	11	220	4.0	13	221	3.8
18,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	12	186	1.0

NOTE.—Resultants prepared from rawins are affected very little by disturbing weather conditions. Therefore, these resultants may be considered unbiased when computed from the complete observational series for the month. However, the full number of observations is seldom available at high altitudes due to the inability of the rawin instrument to measure winds at elevation angles lower than 15° above an obstruction. Due to the low elevation angles associated with high wind speeds, observations with strong winds are terminated sooner than those with light winds. Therefore, the resultants computed from an incomplete monthly observation series are biased toward lower wind speeds. It is estimated that with three observations missing due to low elevation angles, the amount of bias on the average can be as much as 10 percent of the monthly resultant wind and may be proportionally higher with a greater number of missing observations. However, when wind speeds are high in lower levels and decrease with height, the frequency of observation of low-speed winds will be reduced by the termination of flights at lower levels, thus tending to counterbalance the bias in the resultant. It is not possible to estimate the mean upper limit of bias when many observations are missing due to limiting angle. Resultants in this table should therefore be used with caution when the number of observations missing is greater than three.